Secure management of IoT devices lifecycle through identities, trust and distributed ledgers

D6.2 Dissemination and Communication plan

Document Summary Information

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<th>Grant Agreement No</th>
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<td>Responsible author</td>
<td>DBC</td>
<td>Lead Beneficiary</td>
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<td>2/3/2022</td>
<td>80%</td>
<td>Preparation of related material, workshops, website, social media, H2020 project liaisons, partner input and comments</td>
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Table of Contents

1 Introduction ..........................................................................................................................7
  1.1 Mapping ERATOSTHENES Outputs ..............................................................................7
  1.2 Deliverable Overview and Report Structure .................................................................8
2 Dissemination and communication strategy ......................................................................9
  2.1 Stakeholder and target group identification .................................................................9
  2.2 Dissemination and Communication Objectives ..............................................................13
    2.2.1 Dissemination Procedures ....................................................................................15
    2.2.2 Communication Activities ..................................................................................15
  2.3 Liaisons with relevant H2020 projects ........................................................................15
  2.4 Advisory Board (AB) formation and activities foreseen .............................................17
3 Communication channels and tools ................................................................................19
  3.1 Visual identity ................................................................................................................19
  3.2 Social Media ..................................................................................................................20
  3.3 Website ..........................................................................................................................22
  3.4 Public Deliverables .......................................................................................................24
  3.5 Newsletters .....................................................................................................................26
  3.6 Press releases ...............................................................................................................28
  3.7 Webinars .........................................................................................................................28
  3.8 Promotional material (leaflets, posters) ......................................................................28
4 Dissemination plan ...........................................................................................................32
  4.1 Workshop, conferences, events and special sessions ....................................................32
    4.1.1 Organisation of ERATOSTHENES workshops .......................................................33
    4.1.2 ERATOSTHENES Workshop #1 ..........................................................................33
    4.1.3 Other workshops and conferences ......................................................................35
  4.2 European Commission portals ....................................................................................38
  4.3 Individual dissemination plans ....................................................................................39
    4.3.1 DBC .......................................................................................................................39
    4.3.2 INLE....................................................................................................................39
    4.3.3 UMU ....................................................................................................................39
    4.3.4 ATOS ..................................................................................................................40
    4.3.5 SINTEF ..............................................................................................................40
    4.3.6 AIRBUS ..............................................................................................................40
    4.3.7 ENG ....................................................................................................................40
    4.3.8 KUL .....................................................................................................................40
    4.3.9 TUG .....................................................................................................................41
    4.3.10 UPRC ...............................................................................................................41
    4.3.11 IDIADA ............................................................................................................41
    4.3.12 TELU ...............................................................................................................41
    4.3.13 DWG ...............................................................................................................41
    4.3.14 EUI ...................................................................................................................41
  4.4 Dissemination COVID-19 considerations ....................................................................42
  4.5 Capacity Building and Training Activities ....................................................................42
  4.6 Cybersecurity Exercises and Trainings .........................................................................43
5 Impact and Monitoring ....................................................................................................44
  5.1 Monitoring .....................................................................................................................45
    5.1.1 Google analytics .................................................................................................45
    5.1.2 Attendance lists ...................................................................................................45
    5.1.3 Follow up forms ..................................................................................................45
6 Conclusions ........................................................................................................................46
7 References ............................................................................................................................47
8 Annex I – 1st Workshop Feedback Questionnaire .........................................................48
List of Figures

Figure 1: Website ‘Synergies’ Section .................................................................................................................. 17
Figure 2: ERATOSTHENES logo ..................................................................................................................... 19
Figure 3: ERATOSTHENES colour palette ..................................................................................................... 20
Figure 4: ERATOSTHENES Twitter Account ................................................................................................. 21
Figure 5: ERATOSTHENES LinkedIn account ............................................................................................... 22
Figure 6: ERATOSTHENES website ................................................................................................................ 23
Figure 7: Newsletter template .......................................................................................................................... 27
Figure 8: Website Newsletter Subscription ..................................................................................................... 28
Figure 9: Leaflet front side ............................................................................................................................... 29
Figure 10: Leaflet back side ............................................................................................................................. 30
Figure 11: ERATOSTHENES poster ................................................................................................................. 31
Figure 12: 24h Digital Around the World Workshop. .................................................................................... 36
Figure 13: ARES Conference » Vienna, Austria (ares-conference.eu) ................................................................ 36
Figure 14: IEEE 7th World Forum on Internet of Things .............................................................................. 37
Figure 15: Figure 15: GIoTS 2022 workshop ................................................................................................. 37

List of Tables

Table 1: Adherence to ERATOSTHENES GA Deliverable & Tasks Descriptions ............................................. 7
Table 2: Target groups and dissemination channels ....................................................................................... 12
Table 3: ERATOSTHENES Communication Objectives .................................................................................. 13
Table 4: Scheduling of Dissemination Activities ............................................................................................ 14
Table 5: ERATOSTHENES Communication activities ................................................................................... 15
Table 6: List of projects with potential relevance to ERATOSTHENES (non-exhaustive) Dissemination plan .... 16
Table 7: ERATOSTHENES Advisory Board – Confirmed Members ................................................................. 18
Table 8: Public deliverables ............................................................................................................................. 24
Table 9: List of preliminary targeted events, conferences and publications .................................................... 32
Table 10: ERATOSTHENES Workshops (WS) ............................................................................................... 33
Table 11: European Commission tools and services for projects’ dissemination support .................................. 38
Table 12: Dissemination KPIs .......................................................................................................................... 44
**Glossary of terms and abbreviations used**

<table>
<thead>
<tr>
<th>Abbreviation / Term</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>AIOTI</td>
<td>Association for Internet of Things Innovation</td>
</tr>
<tr>
<td>ENISA</td>
<td></td>
</tr>
<tr>
<td>EC</td>
<td>European Commission</td>
</tr>
<tr>
<td>ECSO</td>
<td>European Cyber Security Organisation</td>
</tr>
<tr>
<td>ETSI</td>
<td>European Telecommunications Technologies Institute</td>
</tr>
<tr>
<td>GA</td>
<td>Grant Agreement</td>
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<td>IoT</td>
<td>Internet of Things</td>
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<td>R&amp;D</td>
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<td>Work Package</td>
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<tr>
<td>WAF</td>
<td>Security protection layers (WAF, CASB, IDS, IPS, etc.) and authentication.</td>
</tr>
<tr>
<td>CASB</td>
<td>Cloud Access Security Broker</td>
</tr>
<tr>
<td>IDS</td>
<td>Intrusion Detection System</td>
</tr>
<tr>
<td>IPS</td>
<td>In-Plane Switching</td>
</tr>
<tr>
<td>SMEs</td>
<td>Small Medium Enterprises</td>
</tr>
<tr>
<td>ICT</td>
<td>Information and Communications Technology</td>
</tr>
<tr>
<td>CERT</td>
<td>European Organization for Certification</td>
</tr>
<tr>
<td>CSIRTs</td>
<td>Computer Security Incident Response Team</td>
</tr>
<tr>
<td>HVAC</td>
<td>Heating, Ventilation, and Air Conditioning</td>
</tr>
<tr>
<td>NIS</td>
<td>Directive on security of network and information systems</td>
</tr>
<tr>
<td>RSS</td>
<td>Really Simple Syndication</td>
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</table>
Executive Summary

This is the ERATOSTHENES communication and dissemination plan as developed at the beginning of the project activities (1st project period). The report is produced within the framework of WP6 activities and focuses on the planning, for the dissemination and communication activities of ERATOSTHENES. Following versions of this deliverable will provide the updated plans as well as the periodic progress of the dissemination and communication activities.

The report summarizes the ERATOSTHENES dissemination and communication strategy as a multidisciplinary ongoing activity, starting from the definition of the dissemination activities and then continuing into the identification of target groups, messages, communication channels and the overall dissemination and communication rollout. The actual implementation phase includes the execution of the related activities to embrace the developed plan.

ERATOSTHENES has prioritized, designed and developed a series of dissemination materials to support the project branding and its related activities. This includes the design and development of the project logo, colour palette, scoping presentations and other templates that are being used throughout the whole project execution. Other activities include the creation of the project’s website and channels inside the prioritized social media channels (LinkedIn, Twitter etc.).

ERATOSTHENES has a very well-defined strategy and is very active also into liaison activities that are handled with particular importance from all partners and the coordinator. This includes a large set of actions and liaised activities with related research projects in the domain of IoT security. Activities include participation and active support into common events, organisation of workshops, participation to conferences, knowledge exchange activities and many other that focus first on the wide dissemination of the project results but also towards knowledge exchange and impact maximization for all liaised actors.

Part of the ERATOSTHENES strategy is to make the results and deliverables of the project available to stakeholders and to the general audience: this is fundamental to attract new stakeholders for future exploitation of ERATOSTHENES results. The technologies and methodologies proposed by ERATOSTHENES are foreseen to have a deep impact on the IoT cybersecurity research, thus it is fundamental to incorporate their deep knowledge and assure their acceptance of the new ICT based solutions. For this reason, this document describes an “interactive dissemination” with the aim to involve as much as possible IoT practitioners, SMEs and industries, taking into consideration their needs, proposals, and suggestions to fine-tune the project itself. Moreover, the activity plan and the expected results and KPIs are described. Finally, the aim of ERATOSTHENES dissemination is to receive scientific and methodological feedback/suggestions from experts, researchers, decision-makers and those in charge of embracing the technology.

Capacity building activities are also of a strong importance for ERATOSTHENES. In this direction, ERATOSTHENES will develop a precise plan for a large set of training activities that is expected to take place at various events of interest, workshops and other opportunities. This includes the setup of the content and related partner per activity and training sessions that will be included in a different deliverable (D6.3, M12).

For the above to be precisely monitored and controlled, ERATOSTHENES has developed a monitoring framework aiming to prioritize and track all dissemination and communication activities. This is supported by the creation of related KPIs, list of prioritized events, workshops, publications and other articles that are constantly being monitored and controlled to continuously adapt the related activities.

This document is considered to be a living document as it is constantly updated and adapted depending on related opportunities and common (liaised) activities with other projects and/or initiatives. Further reporting on the dissemination activities will be provided at the project periods inside the formal periodic reporting. An updated and highly detailed report on the whole project activities will be provided at the end of the project (D6.11, M42).
1 Introduction

The Communication & Dissemination strategy aims to suggest a strategic and targeted dissemination plan on how we can promote the activities and results of the ERATOSTHENES project, ensuring their long-lasting visibility and impact. This plan aspires to define the goals and objectives of the communication and dissemination actions; the target audiences, stakeholders and interested parties we intend to focus our communication efforts on; the activities, tools and channels that will be used to showcase the ERATOSTHENES achievements and research results; the timeline of the communications and dissemination actions; the consortium’s role in implementing the dissemination plan and the evaluation and monitoring process that will be put in place. The Dissemination and Communication plan is a living document that evolves throughout the lifespan of the project. It will be used as a guideline and recommendation source to deliver knowledge via dissemination and capacity building, supporting the enforcement of the Cybersecurity Act\(^1\) and standardization activities and build a robust exploitation plan and market positioning, through:

- Provision and deployment of a robust dissemination plan including scope orientation, target groups, means for wide dissemination and measurable KPIs.
- Organization of Workshops and Capacity Building Activities for methodology review and results uptake, development of practical guidelines and a roadmap in liaison with European policymakers and ENISA.
- Liaisons with relevant H2020 projects, (e.g. under SU-ICT-03-2018) and collaboration with the existing CERTs/CSIRTs networks Across Europe.
- Foster the adoption of the EU Cybersecurity Act and the cybersecurity certification framework for any ICT product, service, or process. Design, deployment, and maintenance of EU cybersecurity certification schemes.
- Contribution to relevant regulatory bodies, IoT roadmap and standardization and foster adoption of the framework in contact with ENISA, AIOTI, ECSO and/or DIGITAL EUROPE.

1.1 Mapping ERATOSTHENES Outputs

Purpose of this section is to map ERATOSTHENES Grant Agreement commitments, both within the formal Deliverable and Task description, against the project’s respective outputs and work performed.

Table 1: Adherence to ERATOSTHENES GA Deliverable & Tasks Descriptions

<table>
<thead>
<tr>
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<th>ERATOSTHENES GA Component Outline</th>
<th>Respective Document Chapter(s)</th>
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<tr>
<td>DELIVERABLE</td>
<td></td>
<td></td>
<td></td>
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<td>D6.2 Dissemination and Communication plan</td>
<td>Report on the ERATOSTHENES dissemination and communication strategy, stakeholders’ and target groups identification, AB formation and activities foreseen.</td>
<td>Chapter 2</td>
<td>In chapter 2, dissemination and communication strategy is analysed and specific objectives and liaisons with other projects are depicted in sections 2.2 and 2.3. Section 2.1 describes in detail stakeholders’ and target groups identification, Section 2.4 AB formation and activities foreseen</td>
</tr>
</tbody>
</table>

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\(^1\) ENISA (the European Union Agency for Cybersecurity - Regulation (EU) 2019/881 of the European Parliament and of the Council of 17 April 2019 on) and on information and communications technology cybersecurity certification and repealing Regulation (EU) No 526/2013 (Cybersecurity Act)
### TASKS

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<th>Description</th>
<th>Chapters</th>
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<td>Task 6.1-3</td>
<td>All communication activities will be governed by a Dissemination and Communication plan (D6.1) to achieve a high level of visibility of the project outcomes. The plan will deal with the following aspects: &lt;br&gt; (i) a clear communication policy identifying the relevant audiences to target, the appropriate channels and key stakeholders that would disseminate the information in the IoT sector, &lt;br&gt; (ii) definition of how project resources will be managed to reach an optimal dissemination level in all areas applicable to ERATOSTHENES, &lt;br&gt; (iii) organization of an international publicity campaign planning dissemination meetings or events, such as workshops, press conferences, direct contacts with decision makers to maximize the impact and outreach of the project results, &lt;br&gt; (iv) definition of key indicators to assess project dissemination strategies and achievements, &lt;br&gt; (v) presentation of the visual identity including logo, color schemes and templates. The activities of this task are documented in D6.1 (initial report), D6.5 (first Interim report), D6.7 (second Interim report), final dissemination activities report (D6.9) as well as D6.2 about Project website, social network strategy and visual identity.</td>
<td>2, 3, 4, 5</td>
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### 1.2 Deliverable Overview and Report Structure

In this section a description of the Deliverable structure is shown below, outlining the respective Chapters and their content.

- Dissemination and communication Strategy— (section 2) giving a description of the Dissemination strategy and objectives, identifying the relevant stakeholders to whom ERATOSTHENES will be addressed, and which means have to be used to approach them. In this section the dissemination procedures, communication activities, project synergies and AB formation is analysed.
- Communication Channels and tools. (section 3) the social media accounts, website and other communication and visibility tools are described. In Deliverable 6.1. these channels are presented in detail.
- Dissemination plan – (sections 4) describing the activities to be carried and the main tools/activities identified to address the target audience through publications, workshops, conferences etc.
- Impact and monitoring– (section 5) defining the objectives and the KPIs that will be monitored and assessed as well as the monitoring tools that will be used in order to keep on track of the project.
- Conclusion - (section 6) providing an overall view of the deliverable.
2 Dissemination and communication strategy

According to the H2020 Online Manual, dissemination [1] is defined as “sharing research results with potential users - peers in the research field, industry, other commercial players and policymakers”. This means that ERATOSTHENES’s outcomes at any stage should be disseminated towards appropriate entities in order to continuously raise awareness of the latest consortium’s development. With a clear dissemination strategy that highlights the why, what, how, when, where and to whom dissemination material should reach, it is possible to improve the success of the project and better exploit the achieved results.

Apart from raising awareness about the project and the results, dissemination will increase the profile of each partner in the consortium and potentially trigger new research areas that might extend the goals of the project or create new partnerships. The ERATOSTHENES [2] results should be disseminated to the identified stakeholders so that end-users can easily adopt them, and future policies and practices can be influenced in the appropriate directions. This dissemination strategy lists the objectives and target groups highlighting a timing plan in order to make resources available at the right time.

The COVID-19 pandemic has continued to adversely affect the dissemination strategy in a number of ways, particularly with regards to the ability of partners to attend physical events and conferences, with resultant impacts on KPI delivery. However, COVID-19 pandemic implications have been strongly considered in the development of the ERATOSTHENES dissemination and communication plan.

Indeed, the purpose of the consortium will be to turn the pandemic’s downsides into opportunities. To clarify, activities such as face-to-face meetings, conferences and participation in public events and networking meetings have in many cases been converted to online formats enabling the consortium to meet some of the associated KPIs. A major advantage of this forced acceleration of digitization is that it provides a much greater audience reach when compared with in person physical events due to lower costs, easier connectivity, no-need to travel etc. A good example for this is online conferences at which multiple ERATOSTHENES partners have already presented to a potentially much bigger audience.

2.1 Stakeholder and target group identification

The first step to devising a successful dissemination plan is to identify the groups of stakeholders that will be primarily targeted by the project’s dissemination and communication activities. Apart from the internal stakeholders, meaning the members of the ERATOSTHENES consortium, numerous other external stakeholders are considered part of the project’s ecosystem as shown below:

- Scientific/Research Community, Students that can draw from the concepts and tools developed by ERATOSTHENES to further develop the existent cyber related literature.
- Technical Software and System Developers, IoT Communities that can benefit from the concepts and tools developed by ERATOSTHENES
- Business SMEs/other from IoT using technical outputs, Investors who are heavily invested in maintaining the safety of the digital world and can also provide useful feedback to the consortium and adopt the proposed solutions.
- Standardization entities (AIOTI, ETSI, ECSO, etc.) that share a common goal with ERATOSTHENES in providing the right tools to create a protective barrier from the harms of cyber-attacks.
- Legislative Public admin, Policymakers that can play an important role in establishing a reciprocal relationship providing useful insights and raising awareness on cybersecurity related subjects and the Social General public - Citizens that can also benefit from participating in the exchange of information.
Furthermore, in defining the target audience of the ERATOSTHENES solution, we start from considerations of the IoT market and its size\(^2\). Today, such numbers indicate not only the market potential of such solutions but at the same time the actual industrial needs for a secure and private architecture in a vast variety of applications and stakeholders as follows:

**A) Scientific/ Research Community, Students**

In this category we include the whole academic and research area including Universities and Students as well as the entire research community in the areas of Cyber-Security, IoT Security and Privacy as well as Industrial Safety solutions and systems.

- **Universities**: including courses and thesis as well as information exchange and knowledge transfer in the area of IoT systems’ Security, Privacy and Safety.

- **Research Projects**: this includes, again, knowledge transfer between relevant projects, cluster, etc. in the scope of common approaches and best practices sharing and includes organisation of common events, workshops, EC clustering, etc.

- **Research communities**: Research communities are associated with annual conference and workshop series (these will typically be addressed through publications, presentations, keynotes etc).

**B) Technical Software and System Developers, IoT Communities**

In this category, we include device, hardware, software, ecosystem and other platform developers or stakeholders involved to the manufacturing of such devices and networked components. This category includes manufacturers of devices as described below:

- **IoT Device manufacturers**: in this category, we include a large set of assets as heavily involved into the IoT Marketplace, including hardware, software, sensors and actuator assets. The particular IoT devices and related categories follow:
  
  - **Hardware devices**: including different physical components out of which IoT devices are built including microprocessors, controllers and other physical connectivity boards.
  
  - **Software components and systems**: including IoT devices’ software and operating systems, firmware or other applications installed or running on the IoT device.
  
  - **Sensors, Sensing systems and Actuators**: including systems used for measurements or detection of events that are used to collect information at a particular infrastructure (i.e., temp, motion, etc) as well as actuating devices that are operated from the aforementioned systems (i.e., ventilation units, fire distinguishing etc)

- **Other Ecosystem Developers**: in this, we include peripheral devices and ecosystem developers for the connectivity of the IoT devices including the following:
  
  - **Interface devices**: aggregators, controllers or other interfacing/management are considered here between the different IoT systems/sensors/sub-systems.
  
  - **Other embedded systems**: processing devices for dispensing information collected

- **Platform and Backend Development**: including WWW developments and web-interfaces such as:
  
  - **Web services**: development of world-wide-web services and other interfaces, web-connectivity and web-connected applications.
  
  - **Other cloud services**: relating to cloud back-end as an aggregation layer, computing capabilities, storage and other services.

**C) Business SMEs/other from IoT using the technical outcomes of the project, investors**
Here, we include actual users of the technologies such as infrastructure owners, administration, security personnel, decision makers, safety engineers, network experts as well as day-to-day practitioners and users of IoT devices. Categories of infrastructures include an extensive range inside critical infrastructures protection (energy (network, plants, users etc), transport (automotive, aerospace etc), health (hospitals, personalised support/monitoring, etc), entertainment and smart-living (lighting, heating, ventilation, gaming, etc) up to simpler cases with lower security needs.

- **IT, System Management and Networking:** in this we refer to the actual end-users of the devices and technologies above regarding network components selected (routers level), network topologies and protocols to be used (gateway level), power and accessibility (power supply).

- **Security Personnel and Administration:** mainly focused on IoT and network security including firewalls, network setup, selection of appropriate security protection layers (WAF, CASB, IDS, IPS, etc.) and authentication.

- **Administration and Decision Making:** focusing on administrative and security layer protection of infrastructures. Security personnel is also included here on the selection of the appropriate solutions and security levels for each system or subsystem of the infrastructure.

- **Day to day users:** including simple users (mobile phones/tables) with various levels of IoT security knowledge and understanding, IoT devices users (smart homes), etc.

This category also includes re-sellers of security platforms and security as a service providers as potential up-takers of the ERATOSTHENES technologies that can be re-sold or installed/configured at various marketplaces.

- **Direct re-selling of the technology:** acting as the actual sellers of the technical solution towards end-users with increased security needs.

- **Installation and configuration:** acting as service provider installing and maintaining security solutions to end users.

**D) Standardization entities**

In this category we include any related standardization body, entity and other activity or actor that directly participates or influences standardization bodies:

- **Standardization Bodies** (AIOTI, ETSI, ECSO etc.)

**E) Legislative Public Administration and Policymakers**

This category includes legislative bodies and policy makers in the area of IoT security as well as other related public administrations and bodies:

- **European Commission:** policy making, directives issuing, gap analyses in existing policies, Cybersecurity Act, etc.

- **European Union:** GDPR and other regulations.

- **CERT/CSIRTs:** security related bodies.

**F) Social General Public and Citizens**

- **Practitioners and Hobbyists:** including technology experimenting, application specific implementations and other off-the-market or private developments and implementations (in SW, HW or networking layers).

- **Day to day citizens:** raising awareness on personal data, security in IoT devices (as day-to-day devices), etc.
Table 2: Target groups and dissemination channels

<table>
<thead>
<tr>
<th>Target Areas, Groups</th>
<th>Technical level</th>
<th>Dissemination Objectives</th>
<th>Dissemination Channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Scientific/ Research Community, Students</td>
<td>High level of main scientific and tech. innovation addressed</td>
<td>Inform research community on scientific outcomes of the project. Disseminate recent research outcomes. Knowledge transfer and synergies creation</td>
<td>Scientific publications, Presentations and posters at international conferences, workshops and exhibitions; Peer-reviewed journals,</td>
</tr>
<tr>
<td>B. Technical Software and System Developers, IoT Communities</td>
<td>Understandable by IoT developers and system, technical managers</td>
<td>Inform technical software development teams and developers of modern solutions for IoT digital identities, trust and identity management</td>
<td>Specific project presentation Webinars and hands-on trainings Cyber Security Exercises</td>
</tr>
<tr>
<td>C. Business SMEs/other from IoT using technical outputs, Investors</td>
<td>Business opportunities and potential of technology and societal benefits</td>
<td>Promote tech. results. Identify candidates supporting tech. transfer. Promote scientific/ technical innovations; Business opportunities identification, adoption potential</td>
<td>Business-oriented project presentation through clusters and commercial trade shows, presentations organised</td>
</tr>
<tr>
<td>D. Standardization entities (AIOTI, ETSI, ECSO, etc.)</td>
<td>High level understanding of technical outcomes</td>
<td>Best practices communication, lessons learned Recommendations, gap analyses to existing. Certification promotion for new IoT products</td>
<td>Standardization activities through working groups and workshops, guide pilots</td>
</tr>
<tr>
<td>E. Legislative Public admin, Policymakers</td>
<td>Legislative and social implications level</td>
<td>Secure, safe, trusted and human-centric IoT; Societal benefits identification</td>
<td>Focus on the implementation of new EU privacy and security legislation/ strategy, CyberSecurity Act, GDPR, NIS</td>
</tr>
<tr>
<td>F. Social General public - Citizens</td>
<td>Understandable by a large public</td>
<td>Increase public awareness. Emphasize indirect benefits (quality of life and citizens’ wellbeing), Personal data privacy protection</td>
<td>Press releases, website, workshops and talks organised for specialised audiences. Events organisation with citizens</td>
</tr>
</tbody>
</table>
2.2 Dissemination and Communication Objectives

ERATOSTHENES dissemination and communication objectives have been set as early as the Grant Agreement preparation.

The main objective of the dissemination and communication efforts is to create awareness of the ERATOSTHENES developments, facilitated by a number of dissemination tools and channels and directly through the Advisory Board members. The project partners will ensure that achievements outcomes are discussed across a range of IoT industry through a series of planned workshops.

Communication campaigns can be very useful tools to spreading the ERATOSTHENES message. Therefore, various means of communication will be used, such as a dedicated project website which will be regularly updated, social media channels, publications, newsletters, etc., as described in Section 3.

A more direct approach in informing various industry audiences will be the organization of a series of ERATOSTHENES workshops with potential interested parties outside the consortium, to receive feedback, input and direction at strategic points in time. These can be coupled with training events for buy-in and adoption of the ERATOSTHENES tools, combined with the Capacity Building activities.

Table 3 summarises the ERATOSTHENES communication objectives, including the target audiences.

<table>
<thead>
<tr>
<th>Communication Objectives</th>
<th>Target Audiences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide a clear view of the project, its goals and results</td>
<td>✓    ✓    ✓    ✓    ✓    ✓</td>
</tr>
<tr>
<td>Create project awareness among full range of stakeholders impacted by results</td>
<td>✓    ✓    ✓    ✓    ✓    ✓</td>
</tr>
<tr>
<td>and engage in a co-creation approach</td>
<td></td>
</tr>
<tr>
<td>Establish liaisons with other projects, initiatives and bodies for knowledge and innovation transfer</td>
<td>✓    ✓</td>
</tr>
<tr>
<td>Prepare the ground for the dissemination of project's result</td>
<td>✓    ✓    ✓    ✓    ✓    ✓</td>
</tr>
<tr>
<td>Support the commercial exploitation of results</td>
<td>✓    ✓    ✓    ✓    ✓</td>
</tr>
<tr>
<td>Results’ recognition among audiences beyond immediate project reach (standard bodies, policies, institutions, etc.)</td>
<td>✓    ✓    ✓    ✓</td>
</tr>
<tr>
<td>Demonstrate how EU funding tackles societal and economic challenge</td>
<td>✓    ✓    ✓    ✓    ✓    ✓</td>
</tr>
</tbody>
</table>
## Table 4: Scheduling of Dissemination Activities

<table>
<thead>
<tr>
<th>Main Tasks</th>
<th>details</th>
<th>Year 1</th>
<th>Year2</th>
<th>Year3</th>
<th>Year4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strategy Definition/ Update</strong></td>
<td>Dissemination - exploitation strategies focusing on the project outcomes and expected targeted stakeholders will be defined and refined at various stages</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Events organization</strong></td>
<td>Organize special sessions and other related events at major conferences related to IoT and security trust and identity management, security for IoT and ICT networks etc</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Publications and events’</strong></td>
<td>Organize special sessions and other related events at major conferences related to IoT and security trust and identity management, security for IoT and ICT networks etc</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Impact Assessment</strong></td>
<td>Assess the impact of the project outcomes with direct feedback from the interested stakeholders</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
2.2.1 Dissemination Procedures

The ERATOSTHENES consortium commits to the following procedures:

- Details of all publications will be uploaded to specific and agreed bibliographic networks such as Mendeley, ResearchGate, Google Scholar, Zenodo. Search meta data will be added directly, or RSS based (FAIR guidelines).
- All project-related presentation materials shall be published on the project’s website under a Creative Commons license or another appropriate license and made available through social data-sharing channels.
- Datasets will be published, on the EU Open data portal (ZENODO or similar) and website linked.
- All publications shall be published in line with the project’s Data Management Plan (DMP), thus ensuring protection for the project’s IP, personal data, EC FAIR principles etc.

DMP will be a living document with the consortium’s plan on handling research data during and after project end, types of data collected, processed and/or generated, methodology and standards to be applied, sharing or open access and how data will be curated/preserved in line with the H2020 Guidelines and FAIR Management (2016). The DMP will be drafted and maintained under task T7.4 and will provide detailed information on the project data lifecycle, privacy, and the project’s policies for data collection, storage, access, sharing, protection, retention, and destruction.

2.2.2 Communication Activities

<table>
<thead>
<tr>
<th>Type of Information</th>
<th>Communication Channels/Means</th>
<th>Target Group(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>General information about ERATOSTHENES goals, progress and key results</td>
<td>ERATOSTHENES website and newsletter; Open lectures at public events; Promotional videos; School/ University visits/sessions/lectures; Posters at science exhibitions/festivals; Media features (radio, television, print)</td>
<td>A,B,F and especially General public Students Developers (IoT related)</td>
</tr>
<tr>
<td>Educational information</td>
<td>ERATOSTHENES website; Cyber security exercises Open lectures at public events; Educational video features University &amp; workplace visits; Posters/speaking slots at IoT-focused exhibitions/events; Stakeholder mailing lists</td>
<td>A, C, especially Students General public IT professionals Digital industry workforce</td>
</tr>
<tr>
<td>Detailed descriptions of ERATOSTHENES research findings and results</td>
<td>Journal articles and conference presentations; Industry white papers; EU technology events/fora; Policy-maker workshops; Stakeholder mailing list</td>
<td>A,B,C,E and especially IoT industry Acad. &amp; Research community EU regulatory bodies</td>
</tr>
<tr>
<td>Updates and breaking news from ERATOSTHENES</td>
<td>Social media (LinkedIn, Twitter, etc.); Website; Press releases; Stakeholder mailing list; Media interviews</td>
<td>A,B, D, E F Public; Regulatory; IoT/ICT; Academic &amp; Research</td>
</tr>
</tbody>
</table>

2.3 Liaisons with relevant H2020 projects

The ERATOSTHENES consortium will also explore networking opportunities with other thematically related H2020 projects and specifically the launched projects under SU-ICT-03-2018 as well as other projects funded from the same call of ERATOSTHENES (or other calls). The following table depicts a non-exhaustive list of identified complete or ongoing projects that may be relevant to ERATOSTHENES. Most of the projects have already been
contacted and first interactions have already started as well as added to the Synergies section in the ERATOSTHENES website after consultation with the project leaders and communication managers, as shown below:

Table 6: List of projects with potential relevance to ERATOSTHENES (non-exhaustive) Dissemination plan

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCADIAN-IOT</td>
<td><a href="https://www.arcadian-iot.eu/">https://www.arcadian-iot.eu/</a></td>
</tr>
<tr>
<td>SECONDO</td>
<td><a href="https://secondo-h2020.eu/">https://secondo-h2020.eu/</a></td>
</tr>
<tr>
<td>INCOGNITO</td>
<td><a href="https://incognito.socialcomputing.eu/">https://incognito.socialcomputing.eu/</a></td>
</tr>
<tr>
<td>SGRID</td>
<td><a href="https://www.sgrid.eu/">https://www.sgrid.eu/</a></td>
</tr>
<tr>
<td>CYBERSEC4EUROPE</td>
<td><a href="https://cybersec4europe.eu/">https://cybersec4europe.eu/</a></td>
</tr>
<tr>
<td>OLYMPUS</td>
<td><a href="https://olympus-project.eu/">https://olympus-project.eu/</a></td>
</tr>
<tr>
<td>NGIOT</td>
<td><a href="https://www.ngiot.eu/eu-iot/">https://www.ngiot.eu/eu-iot/</a></td>
</tr>
<tr>
<td>EFPF</td>
<td><a href="https://www.efpf.org/">https://www.efpf.org/</a></td>
</tr>
<tr>
<td>IOT-NGIN</td>
<td><a href="https://iot-ngin.eu/">https://iot-ngin.eu/</a></td>
</tr>
<tr>
<td>INFITECH</td>
<td><a href="https://www.infinitech-h2020.eu/">https://www.infinitech-h2020.eu/</a></td>
</tr>
<tr>
<td>SPATIAL</td>
<td><a href="https://spatial-h2020.eu/">https://spatial-h2020.eu/</a></td>
</tr>
<tr>
<td>SAFETY4RAILS</td>
<td><a href="https://safety4rails.eu/">https://safety4rails.eu/</a></td>
</tr>
<tr>
<td>IRIS</td>
<td><a href="https://www.iris-h2020.eu/">https://www.iris-h2020.eu/</a></td>
</tr>
<tr>
<td>CONCORDIA</td>
<td>concordia-h2020.eu</td>
</tr>
<tr>
<td>ECHO</td>
<td><a href="https://echonetwork.eu/">https://echonetwork.eu/</a></td>
</tr>
<tr>
<td>SPARTA</td>
<td><a href="https://www.sparta.eu/">https://www.sparta.eu/</a></td>
</tr>
<tr>
<td>ELECTRON</td>
<td><a href="https://electron-project.eu/">https://electron-project.eu/</a></td>
</tr>
<tr>
<td>SENTINEL</td>
<td><a href="https://sentinel-project.eu/">https://sentinel-project.eu/</a></td>
</tr>
<tr>
<td>EU-IoT</td>
<td><a href="https://www.ngiot.eu">https://www.ngiot.eu</a></td>
</tr>
</tbody>
</table>
2.4 Advisory Board (AB) formation and activities foreseen

The group of the ERATOSTHENES Scientific Advisory Board (or just Advisory Board, AB) has been formed in view of evaluating the project results while giving quantitative feedback as external reviews and viewpoints of the project findings, results as well as scientific and technical/industrial outcomes. The ERATOSTHENES Advisory Board (AB) is formed by a large set of external entities and stakeholders, and will be used to discuss and verify requirements and obtain feedback and validate the project results from a wide group of IoT stakeholders, maximizing the possibilities for its future exploitation and uptake. The ERATOSTHENES Advisory Board (AB) is a group of high expertise competencies in the areas of IoT, Data Security, Digital Identification and Trust and other modern ICT technologies in the security domain.

The key objectives of the Advisory Board are to provide an independent expertise and viewpoints on several technical and market approaches of the project, bring even more industrial experience in the field of IoT on board the project, liaise to related but different use cases and trust/identity management applications via:

a) assessing maintenance methodologies,

b) the ICT technology for protection of IoT Data Security and Privacy,
c) promoting wide dissemination and large-scale adoption.

The AB is chaired by the project Coordinator. The group comprises a well-balanced assembly of ‘advisors’ representing research and business interests, drawn from across Europe and embracing the whole range of knowledge of the project focus areas composing a large number of possible candidates, main stakeholders covering Government, domain and scientific, operational and future needs.

The ERATOSTHENES AB will be contacted and involved into the project feedback activities at various project stages that are also aligned with the project milestones and workshops organisation. This is

<table>
<thead>
<tr>
<th>No</th>
<th>Entity/Role of each member</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chair of Mobile Business &amp; Multilateral Security Institute for Business Informatics, Cyber Security for Europe (CyberSec4Europe)</td>
</tr>
<tr>
<td>2</td>
<td>CIO of the Austrian Government and Chairman of A-SIT (Secure Information Technology Center Austria)</td>
</tr>
<tr>
<td>3</td>
<td>Head of Regulatory Affairs and Clinical Affairs, Digital Solutions, Carl Zeiss Meditec AG, ZEISS Group</td>
</tr>
<tr>
<td>4</td>
<td>CEO, iCrypto, Inc, IT, Security, Mobile and Networks, US</td>
</tr>
<tr>
<td>5</td>
<td>Research Scientist, AIT Austrian Institute of Technology, Department of Safety &amp; Security</td>
</tr>
<tr>
<td>6</td>
<td>EDP Portugal</td>
</tr>
<tr>
<td>7</td>
<td>Chairperson, Board of Governors, TDL: Trust in Digital Life</td>
</tr>
<tr>
<td>8</td>
<td>Coordinator Charter of Trust and Member global cybersecurity board of Siemens AG</td>
</tr>
</tbody>
</table>
3 Communication channels and tools

3.1 Visual identity

To achieve the best results across the various communication platforms and tools, ERATOSTHENES has established uniform design principles to achieve recognizability for all outputs produced by the project activities. The communication Channels have been described in detail in deliverable 6.1 Project website, social network strategy and visual identity.

![ERATOSTHENES logo](image)

Figure 2: ERASTOSTHENES logo

The ERATOSTHENES logo acts as a driver for the definition of core design directions that will apply an elegant and minimalistic approach, helping promote the content communicated by all channels and tools. The logo is shaped as a shield, representing the notion of ‘cybersecurity’, given in a labyrinth like shape (depicting 5g complexion) and a symbol of network connection in the middle. The word ERASTOSTHENES is written underneath, leading to the ancient Greek scientist (founder of Scientific Chronography and related to the IoT devices lifecycle security). The overall design has a light and dynamic look and feel.

Also, the colour palette based on ERATOSTHENES logo further promotes the project’s outputs recognizability. The colour palate was selected of primal importance before starting any design following the targets above and was based on the studies suggesting that people make a subconscious judgment about a product/service within 90 seconds of initial viewing, based on colour alone for 90%. A part of the ERATOSTHENES decision followed memory retention and recall concepts that are also enhanced through colour (see standing out and memorability targets above).

ERATOSTHENES colour palette considerations started with the most common colour palettes categories below:

- **Monochromatic**: hues/tints and single colour.
- **Analogous**: colours next to each other on a colour wheel.
- **Complementary**: two colours opposite on the colour wheel (high level of contrast).
- **Split-complementary**: similar to complementary but using two colours.
- **Triadic**: created from three colours evenly around a colour wheel.
- **Tetradic** (or rectangle): using four colours (supports variation of design).
3.2 Social Media

Considering how large of a place digitalization has taken in recent years, it would be difficult to ignore social networks when communicating. The evolving uses and practices of advertisement have completely undermined traditional communication. An effective reaching of the project prospects is necessary to have smart communication strategies.

The initial proposed communication and dissemination strategy includes a structured approach to introduce the project to wider audiences and to explain the advantages and technologies of ERATOSTHENES. At the start of the project, the main focus has to be the creation of ERATOSTHENES awareness. Later in the project, the posts will focus on disseminating the use cases scenarios and in parallel, results and outcomes of the project.

The targeted groups for communication of the project results are:

- Scientific/ Research Community, Students
- Technical Software and System Developers, IoT Communities
- Business SMEs/other from IoT using technical outputs, Investors
- Standardization entities (AIOTI, ETSI, ECSO, etc.)
- Technical Software and System Developers, IoT Communities
- Practitioners, building systems manufacturers: Architects, HVAC professionals, and professional associations.
- Scientific/Research Community, and students in areas of IoT and cybersecurity

Online communication tools are the main channels for ERATOSTHENES dissemination: they not only represent the best way to reach a wide audience at European and international level at limited costs, but they also enable a more dynamic form of communication, in which the target groups can receive information under various formats and also have the possibility to interact with the project and among themselves.

Social media are also an irreplaceable means to reach a wide audience quickly, encouraging the community to further investigate the interesting aspects. The audience will be mainly stakeholders, so the main aim will be to disseminate the project achievements and to promote the project solutions. Moreover, information concerning participation in events and meetings will be posted.
ERATOSTHENES has adopted Twitter and LinkedIn as social media to spread the project’s visibility. All partners follow @eratosthenesprj both as individuals and from their organisational accounts, and re-tweet selected @eratosthenesprj posts. The same applies for the LinkedIn page.

Links for both social media platforms follow:

- Twitter: https://twitter.com/eratosthenesprj (@eratosthenesprj, Figure 5)
- LinkedIn: https://www.linkedin.com/feed/

DBC is in charge of managing the social media. All partners will provide posts and tweets on a rotational basis, so that the social media contents are constantly updated. Moreover, the content shall be clear and understandable by non-specialist audiences, but at the same time, mainly for the technical posts, shall provide references and links to deep dive in more detail. The social media accounts are described in detail in Deliverable 6.1 Project website, social network strategy and visual identity.

Figure 4: ERATOSTHENES Twitter Account
D6.2 - Dissemination and Communication plan

3.3 Website

The ERATOSTHENES website\(^3\) will be the main platform to provide information about the project, news, video content, links to other social media, project documents and deliverables. As depicted in Figure 6, the website exhibits a clear and minimal design as the information that it will carry along. As part of the communication and dissemination activities, the project’s website was implemented following all modern design trends and principles of effective web design guidelines in order for the user interface patterns to guide users through a smooth experience.

The ERATOSTHENES website has been designed with a primal focus on the following design recommendations:

- **Consistent branding** – using consistent ERATOSTHENES branding in all pages and links.
- **User friendliness** – to attract attention while provide the required outcomes to the visitor in a clear and consistent approach and a well digestible interface.
- **Speed** – to comply with all connectivity visitors and interfaces.
- **SEO Savvy** - optimized for both browsers and humans in a compelling and readable content for visitors and including on-page SEO tags and elements for search indexing engines.
- **CMS enabled** – to support easiness in uploading information and keeping up to date.
- **Social media enabled** – including links and references to social media and related channels.
- **Security** – respecting security and privacy protocols, security checking, etc.
- **Privacy respecting** - respecting GDPR and personal information.

\(^3\) [https://eratosthenes-project.eu/](https://eratosthenes-project.eu/)
The structure of a Web page is very important as it will allow the reader to visualize all the contents in an easy and clear way (good structure) or make to the reader a sense of being lost, which will not quickly find what is seeking and eventually will abandon the site (poor structure).

In particular, ERATOSTHENES website structure was implemented as follows:

**Home:** Provides an overview and basic information about the project. In this section, the website’s users are welcome to subscribe to our newsletter and receive communications and info regarding the project.

- **About:** The main project vision is presented here. This section is divided to the following subsections:
  - **Fact Sheet:** Provides general information about the project source of funding.
  - **Consortium:** Presents the project partners, their areas of expertise and role in the project as well as their contact details.
  - **Concept and methodology:** Present the overall vision and projects breakthrough solutions.
  - **Objectives** presents the project’s objective and technologies to the general public.
  - **ERATOSTHENES pilots:** Describe the three high-end pilots that will act as a tool to assess the project effectiveness and hands-on training through realistic cybersecurity exercises.

- **Results:** This section is divided to the following subsections:
  - **Publications and white papers**
  - **Deliverables:** This mainly targets cybersecurity researchers, companies and individuals interested to IoT and cybersecurity, by providing access to the project’s public deliverables, and also to scientific papers and conference presentations stemming from the research carried within the project.
  - **Workshops**
  - **Brochures & Flyers**
  - **Newsletters**

- **News and Events:** Contains regular updates on the project’s activities, in order to engage all the target audiences.

- **Synergies:** In this web page there is a list of projects with potential relevance and creation of synergies with ERATOSTHENES.

- **Contact:** Project Contact Information.

![ERATOSTHENES website](image)

Figure 6: ERATOSTHENES website
3.4 Public Deliverables

ERATOSTHENES public deliverables will be uploaded at the website for download by visitors and wide audience. For the case of confidential/restricted deliverables only a short summary (executive summary) will be uploaded in this section. Public deliverables will be also shared with liaised projects.

The indicative dates for the deliverables have been included below. However earlier (draft) versions for some of them will be made available to the public even earlier than the provided dates.

Table 8: Public deliverables

<table>
<thead>
<tr>
<th>Deliverable Number</th>
<th>Deliverable Title</th>
<th>WP number</th>
<th>Lead beneficiary</th>
<th>Type</th>
<th>Dissemination level</th>
<th>Due Date (in months)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1.1</td>
<td>Research Agenda, IoT threat landscape and security challenges</td>
<td>WP1</td>
<td>7 - KUL</td>
<td>Report</td>
<td>Public</td>
<td>3</td>
</tr>
<tr>
<td>D1.3</td>
<td>Preliminary ERATOSTHENES Architecture</td>
<td>WP1</td>
<td>2 - UMU</td>
<td>Report</td>
<td>Public</td>
<td>6</td>
</tr>
<tr>
<td>D1.4</td>
<td>ERATOSTHENES Blueprint - Final Architecture</td>
<td>WP1</td>
<td>2 - UMU</td>
<td>Report</td>
<td>Public</td>
<td>26</td>
</tr>
<tr>
<td>D2.1</td>
<td>Trust Broker Mechanism</td>
<td>WP2</td>
<td>9 - UPRC</td>
<td>Other</td>
<td>Public</td>
<td>14</td>
</tr>
<tr>
<td>D2.3</td>
<td>Updated Threat Modelling Module</td>
<td>WP2</td>
<td>7 - KUL</td>
<td>Other</td>
<td>Public</td>
<td>21</td>
</tr>
<tr>
<td>D2.4</td>
<td>Automatic deployment language and tools for trust agents</td>
<td>WP2</td>
<td>4 - SINTEF</td>
<td>Other</td>
<td>Public</td>
<td>25</td>
</tr>
<tr>
<td>D2.5</td>
<td>Trusted Execution of TBM on IoT/Edge Devices</td>
<td>WP2</td>
<td>7 - KUL</td>
<td>Other</td>
<td>Public</td>
<td>25</td>
</tr>
<tr>
<td>D2.6</td>
<td>Automated Recovery Mechanism of Trust Manager and Broker</td>
<td>WP2</td>
<td>4 - SINTEF</td>
<td>Other</td>
<td>Public</td>
<td>29</td>
</tr>
<tr>
<td>D2.7</td>
<td>IoT Network Enrolment mechanism</td>
<td>WP2</td>
<td>9 - UPRC</td>
<td>Other</td>
<td>Public</td>
<td>29</td>
</tr>
<tr>
<td>D2.8</td>
<td>Interoperability layer with legacy infrastructure</td>
<td>WP2</td>
<td>5 - AIRBUS</td>
<td>Other</td>
<td>Public</td>
<td>27</td>
</tr>
<tr>
<td>D2.9</td>
<td>Final Version of Dynamic Trust Management and Agents</td>
<td>WP2</td>
<td>7 - KUL</td>
<td>Other</td>
<td>Public</td>
<td>36</td>
</tr>
<tr>
<td>D3.1</td>
<td>Prototype of Context- aware identity and access manager</td>
<td>WP3</td>
<td>3 - ATOS</td>
<td>Other</td>
<td>Public</td>
<td>14</td>
</tr>
<tr>
<td>D3.2</td>
<td>Prototype of Advanced Data Protection Mechanism</td>
<td>WP3</td>
<td>8 - TUG</td>
<td>Other</td>
<td>Public</td>
<td>14</td>
</tr>
<tr>
<td>D3.3</td>
<td>Design of Physical Unclonable Functions for IdM</td>
<td>WP3</td>
<td>13 - EUL</td>
<td>Report</td>
<td>Public</td>
<td>14</td>
</tr>
<tr>
<td>D3.4</td>
<td>DLT-based IoT Identity Manager</td>
<td>WP3</td>
<td>2 - UMU</td>
<td>Other</td>
<td>Public</td>
<td>21</td>
</tr>
<tr>
<td>D3.5</td>
<td>Updated version of the identity and access manager</td>
<td>WP3</td>
<td>3 - ATOS</td>
<td>Other</td>
<td>Public</td>
<td>25</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------</td>
<td>-----</td>
<td>---------</td>
<td>-------</td>
<td>--------</td>
<td>----</td>
</tr>
<tr>
<td>D3.7</td>
<td>Identity Recovery Mechanism</td>
<td>WP3</td>
<td>8 - TUG</td>
<td>Other</td>
<td>Public</td>
<td>29</td>
</tr>
<tr>
<td>D3.8</td>
<td>Final Version of Decentralized Identity Management</td>
<td>WP3</td>
<td>3 - ATOS</td>
<td>Other</td>
<td>Public</td>
<td>36</td>
</tr>
<tr>
<td>D4.2</td>
<td>Secure deployment and registration of IoT devices</td>
<td>WP4</td>
<td>2 - UMU</td>
<td>Report</td>
<td>Public</td>
<td>18</td>
</tr>
<tr>
<td>D4.3</td>
<td>Inter-ledger platform for Cyber-threat information sharing</td>
<td>WP4</td>
<td>2 - UMU</td>
<td>Other</td>
<td>Public</td>
<td>21</td>
</tr>
<tr>
<td>D4.4</td>
<td>Federated threat analysis models for continuous risk assessment</td>
<td>WP4</td>
<td>3 - ATOS</td>
<td>Other</td>
<td>Public</td>
<td>21</td>
</tr>
<tr>
<td>D4.5</td>
<td>Intrusion detection for IoT-based context and networks</td>
<td>WP4</td>
<td>6 - ENG</td>
<td>Other</td>
<td>Public</td>
<td>21</td>
</tr>
<tr>
<td>D4.7</td>
<td>AI Threat Analysis Models and Intrusion Detection for IoT Networks</td>
<td>WP4</td>
<td>6 - ENG</td>
<td>Other</td>
<td>Public</td>
<td>29</td>
</tr>
<tr>
<td>D5.1</td>
<td>First System integration and Proof of Concept</td>
<td>WP5</td>
<td>6 - ENG</td>
<td>Other</td>
<td>Public</td>
<td>14</td>
</tr>
<tr>
<td>D5.3</td>
<td>Pilot 1 - PoC Evaluation</td>
<td>WP5</td>
<td>10</td>
<td>Report</td>
<td>Public</td>
<td>18</td>
</tr>
<tr>
<td>D5.4</td>
<td>Cybersecurity Exercises and Trainings</td>
<td>WP5</td>
<td>4 - SINTEF</td>
<td>Report</td>
<td>Public</td>
<td>26</td>
</tr>
<tr>
<td>D5.5</td>
<td>Updated System integration</td>
<td>WP5</td>
<td>6 - ENG</td>
<td>Other</td>
<td>Public</td>
<td>26</td>
</tr>
<tr>
<td>D5.6</td>
<td>Interim Report of Piloting Activities and Impact Assessment</td>
<td>WP5</td>
<td>11 - DWG</td>
<td>Report</td>
<td>Public</td>
<td>26</td>
</tr>
<tr>
<td>D5.10</td>
<td>Final Integrated Version of ERATOSTHENES</td>
<td>WP5</td>
<td>6 - ENG</td>
<td>ORDP: Open Research Data Pilot</td>
<td>Public</td>
<td>36</td>
</tr>
<tr>
<td>D5.11</td>
<td>Summary of Pilot Activities</td>
<td>WP5</td>
<td>11 - DWG</td>
<td>Report</td>
<td>Public</td>
<td>41</td>
</tr>
<tr>
<td>D5.12</td>
<td>Summary of Cybersecurity Exercises and Trainings</td>
<td>WP5</td>
<td>4 - SINTEF</td>
<td>Report</td>
<td>Public</td>
<td>41</td>
</tr>
<tr>
<td>D5.13</td>
<td>Summary of Pilots Management and Social Impact Assessment</td>
<td>WP5</td>
<td>11 - DWG</td>
<td>Report</td>
<td>Public</td>
<td>42</td>
</tr>
<tr>
<td>D6.1</td>
<td>Project website, social network strategy and visual identity</td>
<td>WP6</td>
<td>14 - DBC</td>
<td>Websites, patents filing, etc.</td>
<td>Public</td>
<td>3</td>
</tr>
</tbody>
</table>
3.5 Newsletters

ERATOSTHENES will provide a periodic newsletter (every 6 months) to engage the general audience. The contents of such publications will be general announcements of the project milestones and achievements such as published documents or papers, new releases of components and tools, as well as regular updates on the project progress or related content of interest. Finally, the newsletter can be used as well to inform about upcoming dissemination events organised by the project. Interested users are able to subscribe to the newsletter via the ERATOSTHENES website in order to receive news about the project status (Figure 8). The following figure shows the template for the project newsletters.
The newsletter webpage is linked with a GDPR compliant email marketing platform. Every subscriber receives a ‘Welcome’ email and the contact list produced by the platform is supervised by the dissemination manager. The contact list is automatically updated according to subscriptions and un-subscriptions on the website. Through the account the dissemination manager can send newsletters to the subscribers as a hole, or to specific targets groups (SMEs, universities, etc.), while contacts personal data are protected.

Figure 7: Newsletter template
3.6 Press releases

Specific press releases about the project will be produced at various project levels and implementation stages (whenever the project has reached a significant milestone or exceptional scientific, economic or societal impact is expected). They will be distributed among certain general press channels (magazines, newspapers, e-press, etc.) to promote ERATOSTHENES project. They may include interview quotations by well-known professionals from the partner organizations and beyond, to attract media attention and to create a publishing-friendly approach. Partner organizations should use their resources to find local/trade/global press contacts to establish long run cooperation with the media. Press releases will be published regularly in order to spread the information to a broader audience, while they will be available at the project website and social media channels.

Since the beginning of the project, INLECOM, as the project coordinator has already published a kick-off related press release targeted at various channels of the IoT field. The first press release is currently under preparation and publishing.

3.7 Webinars

ERATOSTHENES will organize thematic oriented Training modules & Webinars (distributed in time and location along the project) aiming to gather and engage all target groups and especially SMEs and MEs from the international community to discuss relevant subjects for the project. The sessions will be video-recorded and made available for public dissemination (pending authorization of the participants). The timing of the Webinars is discussed in the related chapter 5.

3.8 Promotional material (leaflets, posters)

ERATOSTHENES has created respective leaflets and posters serving as promotional material which provide information on the project objectives, use cases, goals, activities and achievements, as the project’s results progress. Addressing, COVID-19 potential limitations and restrictions, the promotional material will be initially distributed digitally, on various virtual venues that provide this capability, e.g., virtual conferences, virtual summits, etc. In regard to normal operations after the COVID-19 situation the promotional material will be distributed to corresponding conferences, summits and venues. The leaflet and poster to be generated will be updated regularly, as ERATOSTHENES project outcomes become available and ready to share.
D6.2 - Dissemination and Communication plan

Project Coordinator:
Contact: Konstantinos Loupos
Address: 11 Tatoiou Street, 14561, Kifissia, Greece
Email: konstantinos.loupos@inlecomsystems.com

Dissemination manager:
Contact: George Athanasiadou
Address: Rond Point Schuman 6, 1040 Bruxelles, België

"This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101028416."

Figure 9: Leaflet front side
OBJECTIVES

ERATOSTHENES will provide core cybersecurity features that will be adopted by IoT/ICT manufactures as baseline elements in production of devices and throughout their lifetime.

ERATOSTHENES aims to create high impact and significant reduction in several cybersecurity incidents in the IoT domain.

- Reduced number of cybersecurity incidents and low-cost implementation of the NIS Directive and General Data Protection Regulation.
- Advanced tools and services to CERTs/CSIRTs and networks of CERTs/CSIRTs.
- A better prepared EU industry for the IoT threats.
- Better standardisation and automated assessment frameworks for secure networks and systems.
- Availability and widespread adoption of distributed, enhanced trust management schemes including people.
- Availability of user-friendly and trustworthy on-line products, services and business.
- Better preparedness against attacks on AI-based products and systems.
- A more competitive offering of secure products and services by European providers in the Digital Single Market.

Figure 10: Leaflet back side
Figure 11: ERATOSTHENES poster
4 Dissemination plan

In the next pages, we are describing the means and planning considerations already foreseen at the beginning of the project regarding the actual dissemination activities and tasks. The structure starts from the strong participation of the project and consortium in related events, conferences and special sessions that are strongly supported by the project partners and their existing presence in such events but also high publication rates. The partners’ individual dissemination plans are also included as preliminary commitments from the whole consortium and the different perspectives captured depending on the nature of the partner (academic, industrial, SME, etc.). Particular emphasis will be given to the ERATOSTHENES (dedicated) workshops (four to be organised) that have been strategically positioned in time to capture and maximize the project value in terms of communicating outcomes and collecting feedback on the project solutions and technical activities.

4.1 Workshop, conferences, events and special sessions

With the leadership of DBC, the project will organize several workshops to facilitate integration of new knowledge in the solution development and results validation. Even in the first year, first results will be presented in the frame of the well-known IoT Week in June 2022, while several other events/workshops have been organised and will be followed by more workshops and events until the end of the project. All events will be strongly linked to relative EU-funded projects, IoT stakeholders, initiatives (AIOTI), clusters (EC IoT Security cluster) and standardization bodies (ISO, ETSI) to maximize the project’s industrial orientation, dissemination and take-up. The following list of scientific conferences, journals and events will be targeted (among others).

Table 9: List of preliminary targeted events, conferences and publications

<table>
<thead>
<tr>
<th>IoT Conferences, Fair Exhibitions, Industry Events and magazines</th>
<th>Academic conferences and journals</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ ENISA - Europol IoT Security Conference ECLIPSE SAM IoT</td>
<td>▪ ACM Middleware</td>
</tr>
<tr>
<td>▪ Conference on Embedded Networked Sensor Systems,</td>
<td>▪ EWSN</td>
</tr>
<tr>
<td>▪ IoT solutions Worlds Congress</td>
<td>▪ EuroSys</td>
</tr>
<tr>
<td>▪ IEEE World Forum IoT</td>
<td>▪ SenSys</td>
</tr>
<tr>
<td>▪ Embedded World</td>
<td>▪ Mobiquitous, Ad Hoc Networks</td>
</tr>
<tr>
<td>▪ Bits &amp; Chips MWC Barcelona and Los Angeles</td>
<td>▪ Transactions of the IoT</td>
</tr>
<tr>
<td>▪ IoT World</td>
<td>▪ Transactions on Dependable And Secure Computing</td>
</tr>
<tr>
<td>▪ SMART IoT London</td>
<td>▪ International conference on service-oriented computing (ICSOC)</td>
</tr>
<tr>
<td></td>
<td>▪ ACM Transactions on Privacy and Security</td>
</tr>
<tr>
<td></td>
<td>▪ IEEE EU Symposium Security and Privacy</td>
</tr>
<tr>
<td></td>
<td>▪ Regional strategic research centers and industry associations in hardware/software for embedded/IoT systems (imec, DSPValley, ARTEMIS-IA, ECSEL-JU, PENTA)</td>
</tr>
<tr>
<td></td>
<td>▪ SW intensive systems (EUREKA-ITEA), manufacture/mechatronics techn.</td>
</tr>
</tbody>
</table>
**ERATOSTHENES Use-Cases Related Events**

- Vitalis
- eHin
- MvTe
- HIMSS eHealth conferences
- Automotive Linux Summit
- TU-Automotive Detroit
- Smart Manufacturing & Monitech

- World-scale photonics/electro-optic conferences (CLEO, OFC, ECOC, SPIE Photonics West.)
- IEEE/ACM MODELS conference

### 4.1.1 Organisation of ERATOSTHENES workshops

Within the duration of ERATOSTHENES, the consortium intends to organize 4 EU workshops aiming at introducing ERATOSTHENES among the public and private stakeholders. With these focused workshops ERATOSTHENES will identify gaps in the practice of safety and security engineering today with respect to IoT in the identified domains. This will provide the basis for identifying some high-level safety and security requirements and use cases for IoT. All workshops will be organized with the scope to involve particular stakeholders. In all events, all ERATOSTHENES identified stakeholders will be invited as well as other projects and EC initiatives to maximize the event value and audience.

Table 10: ERATOSTHENES Workshops (WS)

<table>
<thead>
<tr>
<th>M</th>
<th>Location</th>
<th>Partners</th>
<th>Key Objective - Related Task</th>
<th>Audience (and KPI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3</td>
<td>Online</td>
<td>ATOS</td>
<td>Present the ERATOSTHENES Strategy and validate related impact assessment indicators (KPIs), gathering end-user requirements and feedback from the related stakeholders. Input to T1.1 and T1.2.</td>
<td>Scientific Community (30), IoT companies, SMEs and start-ups (25), potential end-users (use-cases) (15), Policy Makers and EC (5)</td>
</tr>
<tr>
<td>M16</td>
<td>IoT Week 2022 (tbc)</td>
<td>UMU</td>
<td>Presentation of ERATOSTHENES first outcomes and feedback from the related stakeholders on the Methodological Trust Framework and Ref. Trust and Identity Management Arch. Input to T1.4.</td>
<td>Scientific Community and project representatives (70), IoT companies and stakeholders (70)</td>
</tr>
<tr>
<td>M30</td>
<td>Oslo, Norway</td>
<td>SINTEF</td>
<td>Presentation of ERATOSTHENES technological developments. Results from the second development cycle of ERATOSTHENES, feedback from pilots</td>
<td>Scientific Community (20), Open Call participants (20) IoT companies and SMEs (20)</td>
</tr>
<tr>
<td>M42</td>
<td>Athens, Greece</td>
<td>INLE</td>
<td>Presentation of ERATOSTHENES technological developments. Results from the second development cycle of ERATOSTHENES, feedback from pilots</td>
<td>Scientific Community (30), IoT companies, SMEs and start-ups (35), potential end-users (use-cases) (35), Policy Makers, EC (10)</td>
</tr>
</tbody>
</table>

### 4.1.2 ERATOSTHENES Workshop #1

#### 4.1.2.1 1st Workshop “IoT Lifecycle Security Requirements and First Architecture”

ERATOSTHENES organized its 1st in a series of workshops to discuss current challenges, end-user requirements and present its technological solution and architecture to cope with these challenges. The workshop started with an overview of its technical solution and architecture and then presented the project’s three use-cases on: 1) Connected
Vehicles (vehicle-smart city connectivity, 2) Health (personalized health devices) and 3) Industry 4.0 (industrial/embedded systems).

The workshop collected feedback and recommendations about the project solutions and IoT challenges.
4.1.2.2 Programme:

Workshop Programme (15/02/2022), times in CET:

<table>
<thead>
<tr>
<th>Time</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 – 11:30</td>
<td><strong>ERATOSTHENES Concept</strong></td>
</tr>
<tr>
<td></td>
<td>- Challenges</td>
</tr>
<tr>
<td></td>
<td>- Concept</td>
</tr>
<tr>
<td></td>
<td>- Applications</td>
</tr>
<tr>
<td>11:30 – 12:00</td>
<td><strong>ERATOSTHENES System Design</strong></td>
</tr>
<tr>
<td></td>
<td>- End-user Requirements</td>
</tr>
<tr>
<td></td>
<td>- System Architecture</td>
</tr>
<tr>
<td><strong>ERATOSTHENES End-user (pilots)</strong></td>
<td></td>
</tr>
<tr>
<td>12:00 – 12:20</td>
<td><strong>Pilot 1: Connected vehicles</strong></td>
</tr>
<tr>
<td></td>
<td>- Pilot presentation</td>
</tr>
<tr>
<td></td>
<td>- Round table discussion</td>
</tr>
<tr>
<td>12:20 – 12:40</td>
<td><strong>Pilot 2: Smart Health</strong></td>
</tr>
<tr>
<td></td>
<td>- Pilot presentation</td>
</tr>
<tr>
<td></td>
<td>- Round table discussion</td>
</tr>
<tr>
<td>12:40 – 13:00</td>
<td><strong>Pilot 3: Disposable IDs in Industry 4.0</strong></td>
</tr>
<tr>
<td></td>
<td>- Pilot presentation</td>
</tr>
<tr>
<td></td>
<td>- Round table discussion</td>
</tr>
<tr>
<td>13:00</td>
<td><strong>Workshop Summary and Closure</strong></td>
</tr>
</tbody>
</table>

4.1.3 Workshop Fact Sheet:

- Organizer: ATOS
- Date: 15/02/2022
- Participants: 63

To increase active feedback from the event participants, a questionnaire was distributed amongst all participants to gather more technical feedback on the project requirements, system specifications and architecture. The questionnaire was shared online at the EC survey tool: https://ec.europa.eu/eusurvey/runner/ERATOSTHENES1stProjectWorkshop

The template for this is included in Annex II.

4.1.3 Other workshops and conferences

1. **Digital Around the World**

Digital Around the World is a 24 hour virtual conference that brings together top-level speakers discussing the latest trends in digital transformation. INLECOM INNOVATION organized a special session in the 24h Digital Around the World Workshop on the 20-21 October 2021. ERATOSTHENES was represented by the project coordinator (Konstantinos Loupos) and chaired the session on “Intelligent Trust and Identity Management towards a Secure IoT World – Research Challenges and Outcomes”. The session was supported by the projects: ERATOSTHENES, OLYMPUS, ARCADIAN-IoT, SECONDO around recent challenges and results (of similar and same funding calls) on secure management of IoT devices, identity management, autonomous trust, security and privacy management, smart security investments and cyber insurance pricing.
2. **ARES International Conference on Availability, Reliability and Security**

ERATOSTHENES organized the International Workshop on Advances on Privacy Preserving Technologies and Solutions (IWAPS 2021) that took place in conjunction with the ARES International Conference on Availability, Reliability and Security (16-17 August 2021). The workshop was co-organized by four EC, research, projects: OLYMPUS, INCOGNITO, ERATOTHENES and CybeSec4Europe with the project coordinators presenting the projects’ concept and recent results. The session held 10 peer-reviewed publications in a multidisciplinary approach under the scope of IoT Privacy Preserving Technologies and Solutions. ERATOSTHENES was represented by INLECOM INNOVATION (Konstantinos Loupos, project coordinator) and other partners such as UMU (Antonio Skarmeta, Scientific manager) and UPRC (Christos Xenakis). An overall ERATOSTHENES presentation opened the scene and set the ground on recent IoT-related challenges and opportunities.

![Figure 12: 24h Digital Around the World Workshop.](image)

3. **7th IEEE World Forum on IoT**

ERATOSTHENES was presented at the 7th IEEE World Forum on IoT (WFIoT2021) that took place on the 14 June – 31 July 2021 remotely. The project and INLECOM INNOVATON (as the coordinator) were one of the organizers together INTEL, Fortiss and Fujitsu of the particular session on “Hurdles, Challenges, and Opportunities of IoT Moving Towards 6G”. ERATOSTHENES was represented by Konstantinos Loupos and Thomas Krousarlis (INLECOM INNOVATION) that presented the main project objectives starting from the IoT and 6G related challenges and opportunities under the theme of “IoT cybersecurity and privacy, (I)IoT applications and service (blockchain)”. Special attention was spent on highlighting how to foster exchange of innovation between different realities (SME, university, research centres, industry), on experience and challenges among all members of the IoT community, on standardization aspects and finally on how to match the innovation streams of the IoT community with the ongoing 6G discussions. The workshop was supported by the following projects: ERATOSTHENES, EFPF, CSA EU-IoT, TSNWiFi, 5GENESIS, SecureIoT, IoT-NGIN, PHOENIX, InSecTT, CHARIOT.

![Figure 13: ARES Conference » Vienna, Austria (ares-conference.eu)](image)
4. The 4th Workshop on Internet of Things Security and Privacy (WISP) (in conjunction with Global IoT Summit 2022 and the IoT Week 2022, 20-23 June 2022, Dublin, Ireland)

This workshop is supported by ERATOSTHENES along with the EU projects:

- CyberSec4Europe
- ELECTRON
- SDN-microSENSE
- ARCADIAN-IoT

This workshop is aimed to bring together experts from different EU projects working in cross-layer issues in the areas of user-centric security, privacy and trust in the IoT. The goal is to present the recent results to the research community, the industry and standardisation bodies and exchange ideas for joint research activities in the future. Finally, the threats of the IoT for the citizens will be identified analysed, discussing also how the results of the projects can help mitigating these threats.

The technical topics of interest include, but are not limited to:

- Security and privacy challenges of interoperable and usable IoT
- Lightweight IoT security protocols and architectures
- Privacy enhancing and anonymization techniques in IoT
- Trust and identity management in IoT
- Privacy data protection in Smart Cities applications
- Secure discovery and authentication in IoT
D6.2 - Dissemination and Communication plan

- IoT security lifecycle and Data Governance models
- Security and privacy framework for IoT platforms
- Case studies of new or existing IoT security technologies
- Novel architectures, protocols, and applications for security and interoperability
- Testbeds, and experimental results in IoT domains
- Blockchain-based identity management and access control systems
- Smart contracts for enhancing trust and security in IoT
- Security and privacy aspects on the integration of LPWAN in IoT systems
- Incentive mechanisms for enhancing security and privacy
- Cognitive Systems for IoT platforms
- Formal models to represent IoT systems, attacks and vulnerabilities
- Automated IoT security testing
- Security certification and standardization activities

4.2 European Commission portals

The European Commission offers a set of tools and services to support dissemination of projects and their results, which will be used also in the framework of ERATOSTHENES dissemination whenever possible. These include hard-copy and electronic publications. In the table below, the most important dissemination tools are presented.

Table 11: European Commission tools and services for projects’ dissemination support

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Publications</strong></td>
<td><strong>Horizon Magazine</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Innovation Radar</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Horizon Results Platform</strong></td>
<td></td>
</tr>
<tr>
<td><strong>European Investment Project Portal</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dissemination Booster</strong></td>
<td></td>
</tr>
</tbody>
</table>

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<sup>4</sup> [https://horizon-magazine.eu](https://horizon-magazine.eu)

<sup>5</sup> [https://www.innoradar.eu/](https://www.innoradar.eu/)

<sup>6</sup> [https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-results-platform](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-results-platform)


<sup>8</sup> Horizon Results Booster
4.3 Individual dissemination plans

Apart from the ERATOSTHENES overall dissemination plan, each module could be individually disseminated per partner of the consortium as owners of each. This would support and enable all technical partners to penetrate other markets that may be currently dominated by traditional and low value products or with products with limited technological validation.

In the section below, the individual dissemination plans per partner are presented.

4.3.1 DBC

DBC having strong links with key organisations in the domain in Belgium and in several EU countries, will promote the ERATOSTHENES solution and disseminate the main results to Public Organisations, Agencies and key stakeholders. This will happen through the dissemination of project material and presentations of ERATOSTHENES in targeted events/workshops and interviews.

DBC will leverage its extensive network of Public Administration authorities and SME associations in order to disseminate the project results. It will establish liaison with well-established initiatives and summits of public authorities, SMEs and policy makers in order to promote the findings and benefits of the project.

4.3.2 INLE

INLE, as the project coordinator, aims at disseminating project results through scientific publications in journals and presentations in high-impact events such as ENISA - Europol IoT Security Conference, ECLIPSE SAM IoT and IoT Week. INLE intends to make and strongly contribute to scientific publications relating to their role and technical outcomes in the project such as: the blockchain and inter-ledger mechanisms, the DLT-based Trust Framework enforcement and recovery system and Trust network Smart Contracts implementation in IoT context, Context-aware identity and access management, Self-sovereign identity (SSI) management models and mechanisms and Distributed ledger-based and privacy-preserving IoT Identity Management.

As a strong stakeholder with increased networking and presence in the IoT field, INLE will undertake the organisation of several events in IoT (esp. IoT Week) where the concept, technical outcomes and validation will be presented.

Further, INLE though its strong presence in the AIOTI (Alliance on Internet of Things Innovation) will provide feedback and strongly contribute to standardization bodies efforts including gap analyses, challenges identification, contribution to standardization activities, road-mapping and more as part of its participation in various AIOTI working groups.

INLE also intends to collaborate with and engage in liaison activities with other research projects in IoT (such as those funded under SU-ICT-03-2018 but many more under the field of the IoT security) as well as structuring and enhancing the ERATOSTHENES advisory board during the course of the project using its broad contact network. INLE will organise the final dissemination event (towards the project end), involving also international actors, to showcase the final project implementations and integrated solution.

4.3.3 UMU

UMU will present scientific results of the project in international conferences and printed in journals, propagating knowledge through the scientific community and stressing the prestige of the University and the European Community. UMU will use ERATOSTHENES results and expertise to ensure that educational courses content in the University is updated in line with the developing state of the art.
4.3.4 ATOS

Through the ARIMarcomm team, the ATOS R&D group provides various methods, tools and content for effective communication and dissemination of EU-funded projects among targeted audiences and key stakeholders. In the context of ERATOSTHENES, ATOS will maximise the impact of the project by participating in relevant events of the Industrial Spanish Stakeholder arena, such as IoT Week and FIWARE Summit. Moreover, it will contribute to reaching a wider audience on digital platforms and online communications by publishing information about ERATOSTHENES on its Booklet website, social media channels, press, internal newsletters, among others, in accordance with the communication needs and expectations from the project. The execution of the abovementioned will contribute directly to increasing the visibility of the project and create relevant engagement with various communities to also leverage potential synergies with other research projects.

4.3.5 SINTEF

SINTEF, as a research institute, will focus on the dissemination in the software engineering and cybersecurity research communities, via publications in scientific venues. In addition, by being a key player in the Norwegian industry they will act as the connection between companies and academics and will participate in academic events, so as to increase the attention in these communities towards the upcoming challenges of trustworthy IoT systems. They will also introduce and disseminate the novel trust and identity management methods to the Norwegian companies that develop or apply IoT solutions. SINTEF envisage to reach the Norwegian industry through local media, industrial events, and their membership in different industrial organizations. Finally, SINTEF is an active member in technology forums such as NESSI, BDVA, and will use these channels to seek for impact in the European industry and policy makers.

4.3.6 AIRBUS

AIRBUS plans to support the project dissemination by targeting the following group of users: i) AIRBUS internal factories and production capacity, which could benefit of the project results ii) Its industrial customers, which mainly belongs to critical infrastructure in transportation industry, iii) Standardization body, such as ETSI, who could benefit of the project results, especially in the field of Intelligent Transport Systems. The main objective for these would be to increase the visibility of AIRBUS CyberSecurity as trusted supplier/integrator of IoT security system and identity management. Dissemination activities will mainly rely on conferences and workshop in the involved standardisation and recommendation bodies: i) ECSO – WG1 providing recommendation for cybersecurity standards, certification and labelling, ii) ETSI TS 103 standards, iii) ENISA-EICS working group for security of Industry 4.0.

4.3.7 ENG

ENG will inform and engage all the relevant stakeholders in its network as well as many end-users as possible, making them ready and able to use the knowledge and results produced throughout project. Dissemination targets can be divided in: (a) Research/collaboration level, including the Cybersec4Europe competence centre, the European Cyber Security Organisation, the Alliance for Internet of Things Innovation, the FIWARE ecosystem, the Big Data Value Association, the AI4EU observatory, etc.; (b) market level, including ENG’s Business Units, partners and customers. ENG dissemination activities will include conferences, workshops, relevant exhibitions, scientific publications, non-scientific publications (including company newsletters, social media posts and press releases). In addition, the execution of project pilots is considered itself as an effective dissemination vehicle. A preliminary list of potentially interesting events is as follows: SMART IoT London, IoT Week, Milano Digital Week, FIWARE events, Smart City Summit & Expo, Beyond Data, IEEE World Forum on IoT (WF-IoT), IAPP Global PV.

4.3.8 KUL

KUL intends to disseminate project results in the scientific community, i.e., researchers in the domain of, amongst others, distributed and secure software, IoT systems, software engineering. Companies in relevant industry sectors such as industrial & building automation, healthcare, finance. Regional strategic research centers and industry associations: targeting impact on the research agenda, timely insight into and discussions about strategic priorities and participation in industry-academia consortium-building. International conferences and journals in distributed and secure software, IoT systems, software engineering. Seminars, tutorials and workshops, events & magazines.
4.3.9 TUG

TUG will present obtained project results in international journals and conferences by participating in national and international events for e-Government, privacy & security, identity management, cloud computing etc. Suitable topics will be integrated in master level courses, research seminars and student projects. TUG will present results on the university website and press releases by the university.

4.3.10 UPRC

UPRC researchers will disseminate the results of the project primarily through scientific publications in various conferences, workshops, and journals. Potential venues for scientific publications include but are not limited to, the Computers Security journal and the Computers and Communications journal. Other venues include prestigious cyber security and ICT oriented conferences such as ESORICS and ARES. Additionally, the university collaborates continuously with national organizations, including: (i) the General Secretariat of Research & Technology (GSRT), (ii) the National Documentation Centre (NDC), and (iii) the Technical Chamber of Greece (TEETCG). Collaborating with those organizations, UPRC will disseminate the results of the project at a national level towards the general public and the industrial community being represented in the aforementioned groups. UPRC is also directly involved in various national and European research projects and collaboration groups, as consumers of the project results through specific collaborations.

4.3.11 IDIADA

IDIADA will work with partners to develop and present papers based on the work carried out under ERATOSTHENES within the Automotive and testing community. Such opportunities include ITS World Congress, JSAE and Mobile World Congress which focus heavily on Intelligent Transport Systems. Other conferences specifically targeted for automotive security include AMAA conference and Automotive Testing Expo. IDIADA will also disseminate ERATOSTHENES at UK events such as LCV conference, Autonomous Vehicle Expo and AESIN/ Zenic events which have a main focus on Connected mobility and automotive security. The target group will be specifically within the Connected Vehicle and Automotive Cybersecurity domain, which collectively fall under the ‘CAV’ domain.

4.3.12 TELU

TELU will work with partners to develop and present results based on the work carried out under ERATOSTHENES within the eHealth domain. Opportunities include eHealth conferences and exhibitions such as eHin, MvTe, HIMSS eHealth conferences and Vitals. These have particular focus on eHealth solutions including secure and trustworthy TeleCare and TeleHealth services. TELU will also disseminate ERATOSTHENES in customer and partner events organised by TELU and will take part in scientific publications contributing with the eHealth use case, for example to illustrate and validate various ERATOSTHENES approaches.

4.3.13 DWG

DWG will present the project results in three industrial events, trade shows and conferences and intends to publish two industrial whitepapers for customers and industrial stakeholders. DWG will also make publication of Open Source Library (GIT) and social Media and press related activities: 3 Social Media Videos, 3 Press Releases.

TEL intends to disseminate the project in existing and potentially new customers as well as partners and potential new partners in industry and research. Main dissemination activities will include demo stands on exhibitions, lectures/talks on eHealth venues, news feeds and newsletters in social media etc, publications in scientific venues/journals as well as publications in popular science media and public media, and through marketing and sales activities. The main objectives are to increase knowledge of the company and its services, increase Tel customer and market base, strengthen and establish new strategic partnerships and increase sales.

4.3.14 EUL

EUL will exploit conventional communication channels like publications in high impact scientific journals and attending workshops/conferences organized during project’s lifespan and beyond. In particular, based on the multidisciplinary nature of our solution, we plan to present our work on world-scale photonics/electro-optic conferences (CLEO, OFC, ECOC, SPIE Photonics West.) whereas at the same time we aim to disseminate our findings to security-
related venues. In addition, EULAMBIA will utilise project related social media accounts alongside its own media toolbox so as to extend the visibility of the project’s progress and allow two-way communication between experts, stakeholders, and ERATOSTHENES’ partners. This way, EUL will provide a proliferating platform for highlighting the merits of photonic based security solutions and raising awareness about EULAMBIA’s technologies and services.

4.4 Dissemination COVID-19 considerations

The current COVID-19 outbreak has been a part of the consortium’s discussions as it is likely to impact dissemination and communication activities, especially during the first year of the project. The ERATOSTHENES consortium is committed to overcome the difficulties that come with this global crisis and potentially leverage the advantages of digital conferencing to maintain high levels of cooperation within the consortium as well as with external stakeholders. The emergence of digital and physical events is also monitored, as it could possibly provide additional dissemination and communication opportunities to ERATOSTHENES. The developed plan will maintain flexibility being accordingly updated, following the events related to the situation. COVID-19 pandemic implications have been strongly considered in the development of the ERATOSTHENES dissemination and communication plan.

4.5 Capacity Building and Training Activities

As part of ERATOSTHENES includes below the developed capacity building program and plan as the DBC transferability framework of best practices for security, privacy and safety IoT pillars. DBC has developed a series of training material that will be used for the above scope mainly through its organised three workshops but also other opportunities.

As part of WP6 activities and task 6.2 (Capacity building and Workshops) and to maximize the use and impact of the project outputs, a Capacity Building Programme will be designed and delivered to expand and support the project solution Across Europe. Capacity building in ERATOSTHENES will focus mainly on fostering of knowledge exchange between IoT industry and researchers in the EU and beyond, by offering training programs through online modules to improve capabilities/skills of researchers, SW developers, tech. experts and users, including:

- Distributed, and dynamic Trust Management for IoT devices and networks (Trust Agents, Virtualization techniques, trustful services, security/privacy mechanisms etc.).
- Decentralized and scalable identity management approaches (IoT devices enrolment and registration, hierarchical identification approaches, context-aware identities, privacy preserving self-sovereign identity (SSI) management models, Zero-Knowledge Proof concepts etc.).
- Lifecycle management and the overall governance layers of trust in networks (distributed ledgers, trusted IoT transactions, sharing and tracking cyber security in IoT, secure bootstrapping, software defined networks, federated learning loop for achieving intelligent and trustworthy IoT application, etc.).
- Methodological Trust Frameworks scenarios and Architectures for distributed heterogeneous IoT networks.

The ERATOSTHENES challenge is to establish a mechanism that will keep participants’ knowledge and capabilities sharp during and after the project. Innovations and processes that will be introduced to address this challenge include: i) Examination of heterogeneity of existing cyber-security schemes, ii) Analysis of standardization approaches, iii) Consideration of dynamic nature of IoT networks and iv) Consideration of scalability of IoT networks.

The related task includes the following steps:

(a) **Capacity assessment**: identifying the main strengths and weaknesses of the research and institutional framework at the individual, organizational and institutional levels,

(b) **strategize and plan**: planning the detailed activities required to deliver the project outcomes; costs and timescales and monitoring and evaluation arrangements which will include organizational mapping and establishing a capacity baseline,
(c) **implementation:** setting key roles of the research partners in supporting and highlights some examples of actions at each of the three levels-individual, organizational and institutional-which can contribute to effective capacity building,

(d) **monitoring and evaluation:** key principles in monitoring and evaluation, and examples of indicators to be used to judge the effectiveness of capacity building.

During the execution of the aforementioned steps several workshops will be organized (physical and/or virtual), where the attendance of end-users/stakeholders will be encouraged. Each workshop will address specific objectives as described in detail in Table 11. A conference will also be organized to present the final outcomes and findings of the project and prepare the ground for further developments.

Furthermore, consortium partners will:

- Create a trusted community of knowledge exchange to encourage the interactive sharing of knowledge and best practices.
- Develop a training curriculum, develop training materials and tutorials to support students and SMEs who wish to use the solution and enhance their skills toward deploying the solution.
- Develop 3 online training modules and video tutorials; Organize hands-on training workshops/labs (D6.3, D6.7, D6.9).

Gender balance will be factored to all trainings.

### 4.6 Cybersecurity Exercises and Trainings

Cybersecurity exercises will be developed to assess the technical innovations brought by ERATOSTHENES and to provide advanced learning experiences to both technical and non-technical experts. ERATOSTHENES will support the creation of training sessions based on realistic scenarios, created on the basis of real experiences of each pilot. Such scenarios will include also simulated “players”, malwares and Advanced Persistent Threats (APTs), through the playback of the actions of actual human attackers and defenders and/or via simulated adversaries.

For this reason, a **Cyber Security Testing Facility** will be set up in each pilot for its employees and experts and promote innovation in the cyber security field by the participation of academic students. The cyber-range will be specifically tailored to the pilot needs by providing a realistic replica of its internal IoT network and infrastructure in order to assess the impact of several real-world attack scenarios without any risk for the production environment. Among others, a possible scenario of the pilot may involve an attacker able to obtain initial footholds in the network through common system’s vulnerabilities that lead to obtain Remote Code Execution (RCE) on the system, e.g., SQL injections (SQLi), XML eXternal Entities (XXE), Command Injections (CMDi). Then, via privilege escalation she/he may obtain a privileged access in order to pivot towards critical sections of the network like the RSU in the connected mobility pilot (Pilot 1). The exercises will test primarily the Trust framework as well as the infrastructure resilience and the operators’ responsiveness/skills.

This task belongs to WP5 activities, it is however linked to the project dissemination and communication activities and therefore mentioned below. Its purpose is to develop the training materials and platforms for different IoT systems, from developers, system operators to end-users, to learn and exercise the cybersecurity-related activities, to maximize the effect of the ERATOSTHENES trust and identity management mechanisms in actual systems. The approach will be based on the generic cybersecurity training platform developed in Cyberwise.eu project. The task takes as input the IoT thread landscape and security challenges, as well as the methodological trust framework, as defined in WP1. These inputs will be used to extend the existing materials and training courses in Cyberwiser.eu. For each pilot, we will assist the pilot developers in defining the Cyber Security Testing Facility with scenarios for potential attacks. These will be refined into concrete attack actions and their security consequences, with necessary materials prepared, such as keys, malicious code, simulated or isolated pilot system, etc. With the help of CyberWise.eu platform, trainees can practice the attacking or defense of the pilot system following the defined actions, interactively with the platform or other trainees. In addition to the exercises around the pilot systems, we will arrange external exercises with people outside of project, using materials that are more generic and educational, focusing on helping the trainees to understand the cybersecurity challenges and the importance of trust management to address these. The planning will be documented in D5.4 and the results in D5.12.
## 5 Impact and Monitoring

Part of the dissemination plan is the utilization of methods that will aid the streamlining and monitoring of the project’s impact. These methods will provide greater detail on ERATOSTHENES activities and their timeline as well as the ability to solidify initial goals and mechanisms of assessing the progress towards their completion. A list of dissemination related KPIs has been compiled that includes the range of effort expected to achieve optimal results which is distributed across the three years of the project’s lifetime. For the monitoring of the ERATOSTHENES achievements, internal monitoring and reporting to EU is going to be utilized in addition to other monitoring tools that will aid the tracking process of the digital communications channels employed.

In the following table the dissemination related KPIs are depicted along with information on goal ranges and timeline or other relevant details, if applicable.

**Table 12: Dissemination KPIs**

<table>
<thead>
<tr>
<th>Communication Channels</th>
<th>Type</th>
<th>Level</th>
<th>Success Indicators</th>
<th>Target</th>
<th>Timeline</th>
<th>Audience</th>
<th>Audience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newsletters, Success Stories, Facts</td>
<td>Documentation</td>
<td>N, EU, I</td>
<td>Publications No</td>
<td>10</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,000</td>
</tr>
<tr>
<td>Brochures and Public Deliverables</td>
<td>Documentation</td>
<td>EU</td>
<td>QA Standards</td>
<td>&gt;30</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,600</td>
</tr>
<tr>
<td>Press Releases, Policy Briefs etc.</td>
<td>Publications</td>
<td>EU</td>
<td>Publications No</td>
<td>&gt;12</td>
<td>M1-M42</td>
<td>A-C</td>
<td>2,000</td>
</tr>
<tr>
<td>Website - Social Media</td>
<td>Online</td>
<td>I</td>
<td>SEO Metrics, Users</td>
<td>&gt;10,000</td>
<td>M1-M42</td>
<td>A-C</td>
<td>5,000</td>
</tr>
<tr>
<td>Dedicated EC Portals</td>
<td>Online</td>
<td>EU</td>
<td>No of entries</td>
<td>2-3</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,500</td>
</tr>
<tr>
<td>Video-slideshow, media</td>
<td>Media Releases</td>
<td>I</td>
<td>No of elements</td>
<td>6</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,500</td>
</tr>
<tr>
<td>Roundtables, Workshops</td>
<td>Events</td>
<td>P</td>
<td>No of events</td>
<td>5</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,200</td>
</tr>
<tr>
<td>Research Publications</td>
<td>Publications</td>
<td>I</td>
<td>No of confs./papers</td>
<td>&gt;12</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,000</td>
</tr>
<tr>
<td>Participation in external events</td>
<td>Events</td>
<td>N/EU</td>
<td>No of events</td>
<td>&gt;20</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,600</td>
</tr>
<tr>
<td>Training modules &amp; Webinars</td>
<td>Courseware</td>
<td>I</td>
<td>Enrolled users/views</td>
<td>&gt;200</td>
<td>M1-M42</td>
<td>A-C</td>
<td>1,300</td>
</tr>
<tr>
<td>Liaison Activities</td>
<td>EU</td>
<td>Related projects' No</td>
<td>&gt;10</td>
<td>&gt;M20 M3-M42</td>
<td>A-C</td>
<td>1,200</td>
<td></td>
</tr>
</tbody>
</table>
Greater focus is to be placed towards the second and especially the third year of the project when the developed services, platforms, and frameworks are expected to be delivered and reach higher levels of maturity, initiating a more vigorous phase for the dissemination and exploitation plan.

5.1 Monitoring

An important part of the plan is to establish the appropriate processes to monitor the progress towards achieving the goals set in the designed plan. All activities related to the dissemination plan and the standardization and liaison plan will be internally monitored and reported to EU utilizing the collaborative tools that the consortium has at its disposal. Completed activities as well as planned activities will be systematically reported to maintain a thorough understanding of the project’s progress.

By evaluating the dissemination and communication efforts it is possible to assess the project performance, the effectiveness of the communication strategy and provide evidence that they have been carried out and reached the expected stakeholders, and also to help improve any future dissemination activities. Based on the established KPIs, the team is able to measure tangible results. Therefore, by constantly reviewing the target KPIs with the actual results will help the team to establish in which areas it needs to work harder.

Tools for monitoring ERATOSTHENES digital presence will be utilized as follows.

5.1.1 Google analytics

Google Analytics is a web service, which allows to track and analyse website traffic according to different metrics: sessions, users, bounce rate, entrances, exit rate. DBC will leverage Google Analytics to monitor the ERATOSTHENES website (Section Website) and to analyse details about the visitors. According to KPIs, it will keep track of the website unique user sessions.

5.1.2 Attendance lists

Furthermore, the number of people attending events and workshops/conference (virtual and physical) organised by the consortium can easily be measured through attendance lists. Such tools allow for precise outreach measurement through dissemination.

5.1.3 Follow up forms

The dissemination manager will keep forms that will be constantly updated and circulated to all partners, that will monitor the number of publications/workshops/conferences that have taken place through the project.
6 Conclusions

This deliverable presented the plans for spreading the most important achievements of the project and its digital presence strategy. The dissemination and communication plan has been proactive, including:

(a) Dissemination Plan: From an early stage, starting with the dissemination objectives definition, the dissemination objectives were linked to tangible dissemination goals, followed by identification of Target Groups, Key messages to be communicated through the appropriate communication channels and associated activities. The implementation of the dissemination plan will start early in the project until the end of the project and beyond the project. Targets will be monitored and evaluated regularly, and corrective actions will be taken whenever needed. A number of dissemination activities have already taken place as early as the Project start.

(b) Promotion tools and materials: Promotion tools and materials concerning Project identity, etc. have been produced. Publications including journal, conferences and events participation have been planned.

(c) Liaison with other projects and initiatives: ERATOSTHENES has been particularly active into liaison activities at various levels including projects and initiatives co-organisation of events, knowledge transfer, cooperation into the EC security IoT cluster and many other.

The ERATOSTHENES team will use this document, and, in particular, the guidelines defined in Chapter 3 4 and 5, in order to have a common understanding of the procedures that will be followed during the project life to maintain a high quality and constant communication channel with the general public. The document is also considered as a living report as through the precise monitoring and control ERATOSTHENES activities, we expect plan adaptations and updates following related dissemination and communication opportunities as well as plan alignment with the project technical outcomes and major dissemination activities (workshops’ organisation, participation to large events, organisation of training activities etc). The final updated plan as well as project dissemination/communication activities will be updated and conclude in the upcoming D6.11 (M42).
7 References


8  Annex I – 1st Workshop Feedback Questionnaire

Questionnaire shared online: [https://ec.europa.eu/eusurvey/runner/ERATOSTHENES1stProjectWorkshop](https://ec.europa.eu/eusurvey/runner/ERATOSTHENES1stProjectWorkshop)

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**ERATOSTHENES - 1st Project Workshop**

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Company/Entity name:  

Type of entity (SME, industry, academic/research, end-user, policy maker):  

Country:  

Expertise (topic of activities):  

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Please include below further challenges in the area of IoT Security that our project should consider. Try to be specific on the domain (use-case) identified and the challenge itself.

Please fill in your answer:

---
Please include comments over our project architecture and system components in mind of particular requirements and capabilities.

Please fill in your answer:

Please describe the gaps in standards that relate to our project and concept. Also please described any expected future requirements.

Please fill in your answer:

What functionality of the architecture do you find most interesting for its adoption/use?

Please fill in your answer:
Do you see any potential security or privacy conflict that you want to highlight?

Please fill in your answer:

Submit