



**European Cyber Security Organization
(ECSO)**

www.ecs-org.eu

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What is EUNITY

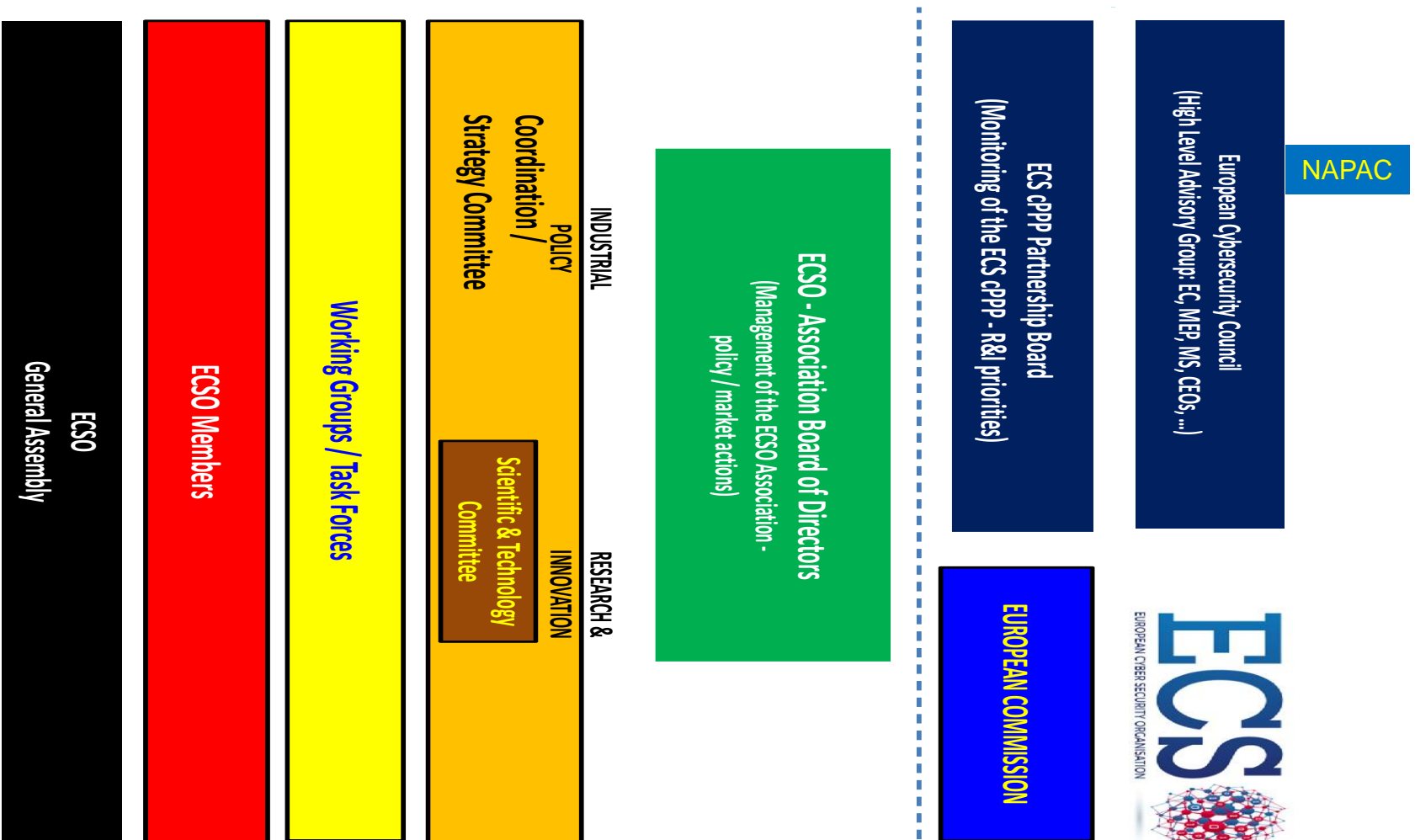
- H2020 CSA Project
 - H2020: current European Framework Program for research and innovation
 - CSA: Coordination and Support Action
 - Objective: supporting European research and innovation Policy Development
- EUNITY Focus: support cyber-security dialogue between Europe and Japan
- Our goals:
 - Raise awareness of European views and activities on cybersecurity in Japan
 - Understand similar activities in Japan to complete European research roadmaps, e.g. with joint activities

What is ECSO

- Association established in Brussels
 - “Industry Proposal”
- Contractual Public-Private Partnership (cPPP)
 - Joint effort between the European Commission and the private sector
 - Leverage public research funding to develop business activity.
- Signed July 2016
 - Other cPPPs exist: DVA (big data); 5G (mobile 5G); EFFRA (smart industry), ...
 - cPPP could evolve into a more ambitious structure (Joint Undertaking- like) following the recent EU cybersecurity strategy (Sept 2017)

[ECSO Intro/L.Rebuffi](#)

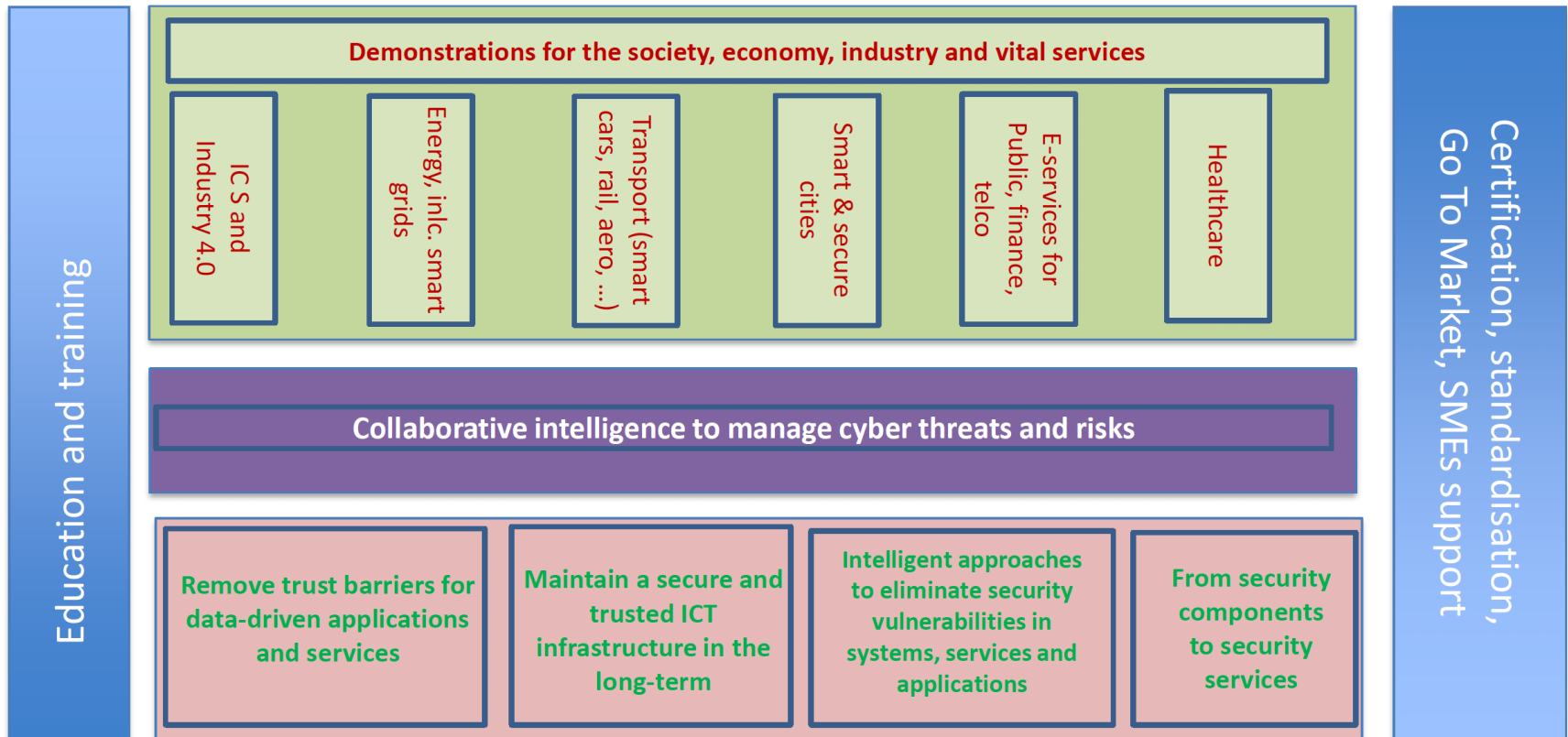
ECISO General Structure



6 working groups

- WG1 (standards / certification / label / trusted supply chain)
 - WG2 (market / funds / international cooperation / cPPP monitoring)
 - WG3 (verticals: Industry 4.0; Energy; Transport; Finance / Bank; Public Admin / eGov; Health; Smart Cities)
 - WG4 (SMEs, Regions, East EU)
 - WG5 (education, training, awareness, cyber ranges...)
 - WG6 (SRIA)
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- WG maturity is different. Initial activity has been more important in WG1 and WG6.

From basic R&I building blocks to products



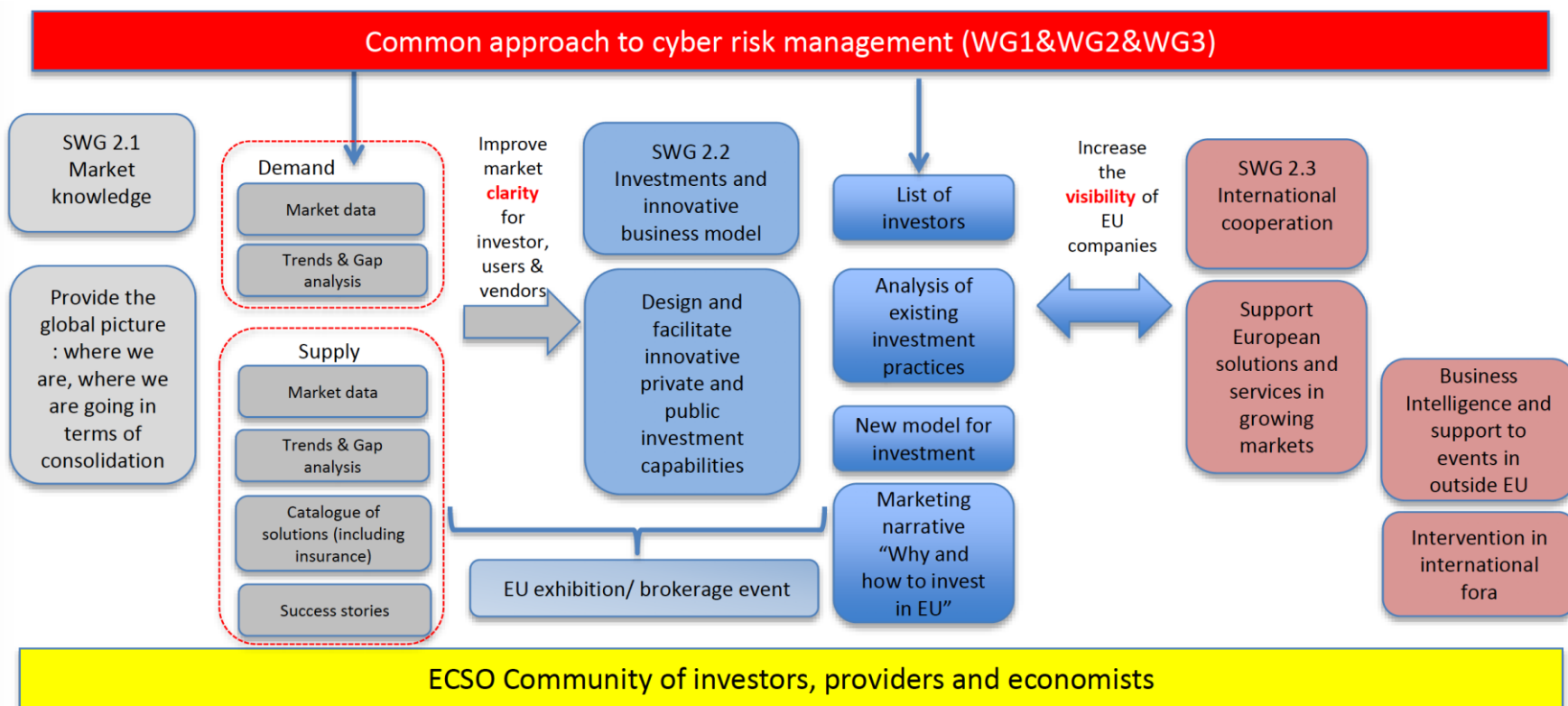
WG1 – Standardisation, certification, labelling & supply chain management

- Mission and Objectives: The WG will focus its work around the following topics:
 - EU ICT security certification framework (liaise with the Commission and contribute to the European ICT security certification framework proposal which is foreseen to be published by the end of 2017).
 - Standards for interoperability
 - EU cybersecurity labelling
 - Increased digital autonomy
 - Testing and validation of the supply / value chain in Europe
- Cooperations:
 - CEN/CENELEC (already defined)
 - ETSI (planned)

WG1 Initial Activities

- Initial activities focus on
 - the overview of existing cybersecurity standards and certification schemes relevant for the activities of WG1 (SOTA – which will be public and evolve every 3 – 4 months),
 - and the identification of the challenges relevant for the industrial sector (COTI – which will remain an internal document).
- They will be used as basis for ECSO recommendations for EU certification in the Meta – Framework document.

WG2 Objectives and Deliverables



WG3 - Verticals

- Identification of user/market needs
- Assess vertical sectors challenges and impact
 - Understand market needs (e.g. demand driven requirements, threats, functional requirements, ecosystem impact etc.)
 - Influence EU instruments on research and/or policy issues by input to other ECSO WG's and other means as appropriate in the scope/constitution of ECSO
 - Drive well founded sector impact into other ECSO WGs
- WG3 planning for 2017
 - Current SOTA drafts describe the sector and its challenges well
 - Further in depth refinements on vertical based SOTA's plus transversal aspects to continue
 - Interactions with vertical organisations, ENISA, Europol and adjacent ECSO WG's (1,2,5,6)
- **Need for more users and operators**

WG3 – Which verticals ?

- SWG 3.1: Industry 4.0 and ICS
- SWG 3.2: Energy (oil, gas, electricity), and Smart Grids
- SWG 3.3: Transportation (road, rail, air, sea, space)
- SWG 3.4: Financial Services, ePayments and Insurance
- SWG 3.5: Public Services, eGovernment, Digital Citizenship
- SWG 3.6: Healthcare
- SWG 3.7: Smart Cities and Smart Buildings (convergence of digital services for Citizens) and other Utilities
- SWG 3.8: Telecom, Media and Content

WG4 – SMEs and Regions

Vision on SMEs

- Boost the demand for SMEs solution
 - European cyber security SMEs HUB to help SMEs consolidation
 - Create a “Made in the EU/EU trusted solution” label
 - Measures for enhanced SME participation in public procurement
 - Foster clusters cooperation
- Adapt Cyber certification to SME needs
 - Proportionality of verification processes to suit the size and complexity of the company
 - Reduce the level of formalism required to micro and small businesses
 - Develop implementation guides specific to SMEs
 - Allow gradual approach and self-certification
 - Reduce cost for certification renewal
- EU Funding for R&I&D of solutions that effectively reach the market
 - Requirements for minimum participation of SMEs in H2020 projects
 - Review and simplify the SME Instrument
 - Design of a EU model for investment

WG4 Initial Activities

- SMEs:
 - discussions on other forms of support to SMEs other than R&D (e.g. EU regional funds);
 - SME hub;
 - Cooperation with large companies;
 - certification issues / labelling;
 - workforce.
- Regional aspects:
 - cooperation with “EU Regions“(DG REGIO + DG CNECT + DG JRC, DG GROW, EC SO members and regions not EC SO members):
 - identification of regional and structural funds for cybersecurity;
 - gathering of Regions to better target these resources.
 - East EU aspects to be developed soon.

WG5 – Education and Training

- Purpose and Approach:
 - Increase education and skills on cyber security products and safe use of IT tools in Member States for citizens' individual and professionals.
 - Cyber security training and exercise ecosystem leveraging upon cyber range environments
 - Awareness-raising and basic hygiene skills
- SubWG's:
 - SWG5.1 Cyber range environments and technical exercises
 - SWG5.2: Education and professional training
 - SWG5.3: Awareness

WG5 Initial Activities

- SubWG meetings ongoing to define detailed needs / objectives / actions.
- Just started the EHR-4CYBER Network
 - (to promote and harmonise education and training and develop job creation)

WG5 - Creation of an EU Cybersecurity Human Resources Network to develop education, training and jobs: EHR-4CYBER

- Europe urgently needs a larger number of skilled cyber experts: the European Commission estimates that by 2020, 900.000 new jobs will be needed in Europe in the cybersecurity sector.
- This need is recognised by large companies to increase their business activity and competitiveness, by SMEs that look for a fast growth, by public administrations that need to protect public services from threats leveraging upon experts that are increasingly attracted by the salary of the private sector, by RTOs and Universities that need to keep high profile researchers attractive to the private sector facilities and of course by users / operators that need to develop a consistent internal panel of experts to run cybersecurity solutions for protection of their activity.
- Initial investments from the private sector are already done independently: such a platform could create a synergetic effect across ECSO members and provide European / national public administrations and decision makers (politicians) with a very strong message on the need for an effective financial support and incentives for developing cybersecurity competence in order to feed as soon as possible the need for jobs with European manpower, allowing also the possibility to retain them.
- This platform would discuss and work on a benchmarking system, foster collaboration through the exchange of best practices, look towards harmonisation of education and training procedures across Europe, develop and harmonise certification for diploma and specialties, as well as foster the recruitment process of cybersecurity specialists.

WG6 – Strategic Research and Innovation Agenda (SRIA)

- Technical areas, Products, Services
- Objectives
 - Coordination of results and expectations from EC R&I projects
 - Coordination of cybersecurity activities across cPPPs and EIT
 - Support cPPP implementation and H2020 cybersecurity projects
 - Detailed suggestions for the WorkProgramme 2018 - 2020 using an updated and focussed SRIA

Thank you for your attention

Questions ?