### Cyber Security Nordic 19 Cyber Security Nordic 19 Messukeskus

2 Oct 2019

### LIVE

#### breakyourownnews.com

©Moomin Characte

### **BREAKING NEWS**

## **MOOMINTROLL'S IPHONE HACKED**

11:08 LITTLE MY "DENIES" | SNUFKIN SUMMONS EXPERTS FOR A BRIEF @ 4PM (SUOMI 207)

tsy Animations







## What Money 4 Which Purpose?

R&D&I Working Capital Investments Transactions **Finland** Business Finland

Finnvera

Finnvera

Finnvera

EU <u>Horizon 2020</u> EIB EIB EIB

### Structure of €77B Horizon 2020 (2014-2020)

	I Excellent Science	II Industrial Leadership	III Societal Challenges
1. 2. 3. 4.	European Research Council (ERC): frontier research Future and Emerging Technologies (FET). a) Open b) Proactive c) Flagships Marie Skłodowska-Curie (MSCA) – actions: training, career development and mobility for researchers Research Infrastructures	<ol> <li>Leadership in Enabling and Industrial Technologies         <ul> <li>1.1 ICT</li> <li>1.2. nanotechnology</li> <li>1.3. materials</li> <li>1.4. biotechnology</li> <li>1.5. manufacturing and processing</li> <li>1.6. space</li> </ul> </li> <li>Risk finance: Ioans &amp; equity funding</li> <li>Innovation in SMEs</li> <li>20% of the budget or pillars II + III to SMEs</li> <li>SME Instrument(1/3)</li> <li>Collaborative projects (2/3)</li> </ol>	<ol> <li>Health, demographic change and wellbeing</li> <li>Food security, sustainable agriculture and forestry, marine, maritime and inland water research and bioeconomy</li> <li>Secure, clean and efficient energy</li> <li>Smart, green and integrtaed transport</li> <li>Climate action, resource efficiency and raw materials</li> <li>Europe in a changing world: inclusive, innovative and reflective societies</li> <li>Secure societies – protecting freedom and security of Europe and its citizens</li> </ol>
Also	o: European institute of innov	ation and technology, Science with an and widening participation	nd for society, Spreading excellence
	IV	Joint Research Center JRC, excl. n	uclear
		Nuclear research: EURATOM	



# **SC7/CYBERSECURITY** IN HORIZON (2020)



# AI & Security (BDG €20M)

- ✓ <u>SU-AI01-2020</u>: Developing a research roadmap regarding Artificial Intelligence in support of Law Enforcement
- ✓ <u>SU-AI02-2020</u>: Secure and resilient Artificial Intelligence technologies, tools and solutions in support of Law Enforcement and citizen protection, cybersecurity operations and prevention and protection against adversarial Artificial Intelligence
- ✓<u>SU-AI03-2020</u>: Human factors, and ethical, societal, legal and organisational aspects of using Artificial Intelligence in support of Law Enforcement



# Digital Security (BDG €69M)

✓ <u>SU-DS02-2020</u>: Intelligent security and privacy management

- ✓ <u>SU-DS03-2019-2020</u>: Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises
- ✓ <u>SU-DS04-2018-2020</u>: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches

# CYBERSECURITY PILOTS SU-ICT-03-2018



۲

.

## SU-ICT-03-2018: General

- ✓ Establishing and operating a pilot for a Cybersecurity Competence Network to develop and implement a common Cybersecurity Research & Innovation Roadmap.
- ✓ Research and Innovation Action, EUR 16M, 100 % funding.
- $\checkmark$  The consortium in a proposal must involve at least <u>20 partners</u>.
- ✓ A proposal should also include industrial partners from various (not less than 3) sectors (e.g. telecom, finance, transport, eGovernment, health, space, defence, manufacturing) that will be involved in the demonstration cases.

# SU-ICT-03-2018: Challenge

There is an urgent need to <u>step up investment</u> in technological advancements that could make the EU's DSM more cybersecure and to overcome the fragmentation of EU research capacities. Europe has to master the relevant cybersecurity technologies from secure components to trustworthy interconnected IoT ecosystems and to self-healing software.

Note: ECSO cPPP was established in 2016 to trigger EUR 1.8B of investments.

# SU-ICT-03-2018: Scope (1)

- Common research, development and innovation in next generation industrial and civilian cybersecurity <u>technologies</u> (incl. dual-use), applications and services; focus should be on horizontal cybersecurity technologies as well as on cybersecurity in critical sectors;
- ✓ Strengthening cybersecurity capacities across the EU and closing the cyber skills gap;
- ✓ Supporting **certification** authorities with testing and validation labs equipped with state of the art technologies and expertise.

# SU-ICT-03-2018: Scope (2)

Projects should also include industrial partners and their cybersecurity research collaborators to create synergies and:

(a) collaboratively **identify and analyse scalable** (short/mid/long term) cybersecurity **industrial challenges** in the selected sectors;

(b) **demonstrate** their ability to collaborate in developing appropriate solutions to solve critical challenges through (<u>not less</u> <u>than four</u>) research and innovation demonstration cases. These **demonstration cases** will constitute the core part of the work to be done within the project.

# 4 WINNING CONSORTIA SU-ICT-03-2018

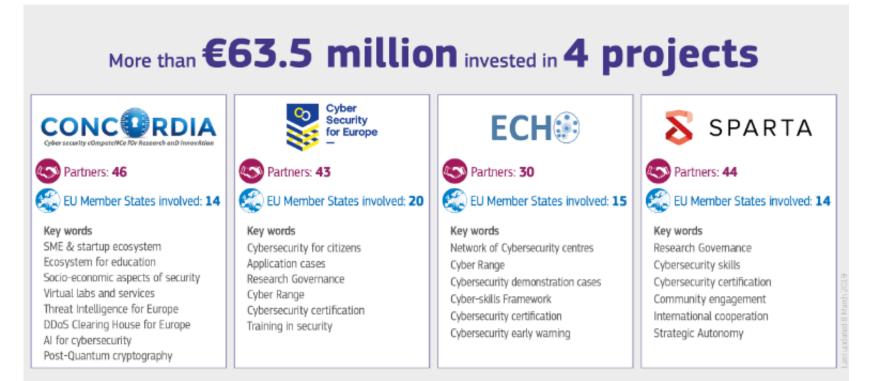


.



## **Cybersecurity** Horizon 2020 pilot projects

to prepare a European Cybersecurity Competence Network & contribute to the European cybersecurity industrial strategy



### More than 160 partners from 26 EU Member States

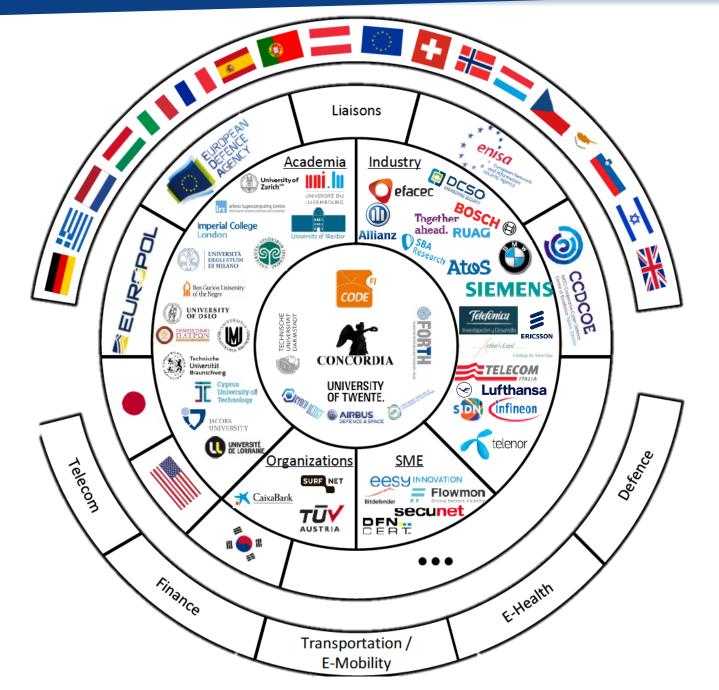


#### Cyber security cOmpeteNCe fOr Research anD InnovAtion

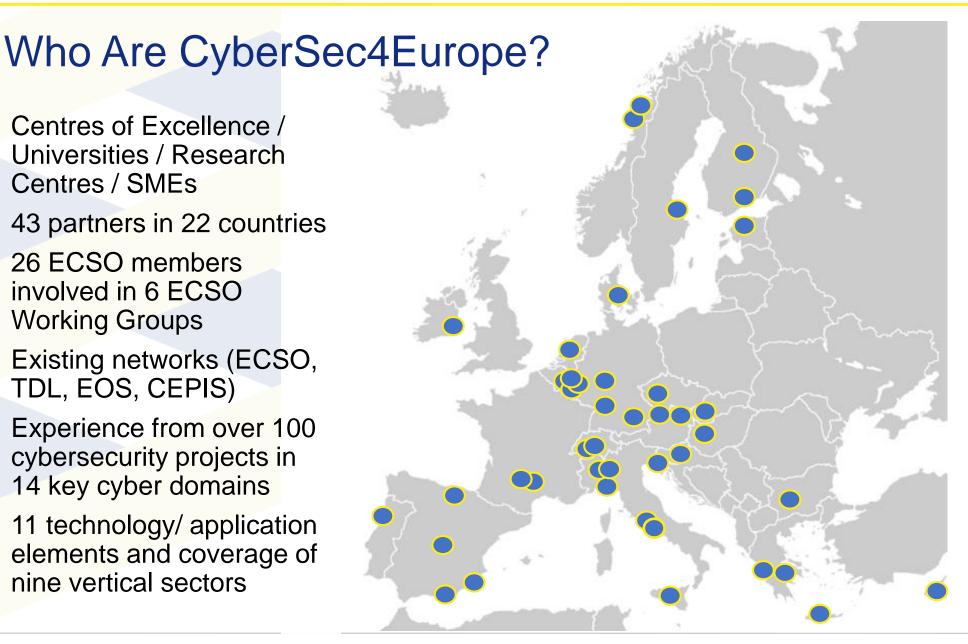


55 Partners:

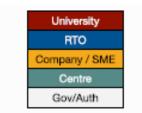
- 27 Academia
- 28 Industry and Organisations



- 16 Millions EC funding for 4 years
- 7 Millions additional funding from national authorities and industry







PT

PT

INOV

IST

INOV

RTO

Instituto Superior

Técnico

University



CEA

INRIA

ES

TCS

Thales

Company

FR.

INDRA

Indra.

Company

ES VICOM

Vicomtech

RTO

FR

YWH

CINI

Cons. Interuniv.

Naz. per l'Informat

University

Consiglio Naz.

delle Ricerche

RTO

CNR

Yes We Hack

Company

IT

University

п

IT

CNIT

ISCOM

LEO Leonardo

Cons. Naz.

Interuniv, Telecom University

lst, Sup, del Com.

e del Tecno.

Gov/Auth

Commissariat à

Energie Atomique

RTO

Inria

RTO

FR

FR

EUT

Eurocat

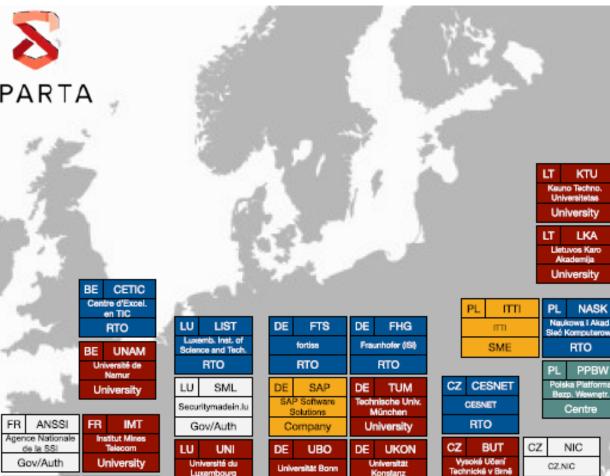
RTO

Tecnalia

RTO

ES TEC

ES



University

University

Joanneum

Research

RTO

JR

AT

EE UTARTU

Tartu Ülikool

University

KTU

NASK

PPBW

RTO

Centre

Gov/Auth

EL NCSR

Demokritos

RTO

University

TNK

Technikon

SME

KMR Κέντρο Μελετών

Ασφάλειας

Gov/Auth

EL

LT

LT

LMT Latvijas Mob Telefons Company

L3CE

Liet, kiber, nusi

komp, ir tyr, ce

Centre

Mykolo Romeric

Universitetas

University

MRU

#### A STRONG BASIS OF EXCELLENCE

44 partners spanning academia, industry, institutions, grassroots Pragmatically anchored in member states

#### STRATEGIC PROGRAMS

Multilevel supervision Continuous and flexible evaluation Trustworthy intelligent infrastructures Fair and secure Als

#### THE STAKES OF EUROPEAN AUTONOMY

Design a long-term roadmap and network of competence centers

## **Contacts to Consortia & ECSO**

✓CONCORDIA: Antonio Ken Iannillo, SnT, LU, antonioken.iannillo@uni.lu & Olivier Festo, INRIA, FR olivier.festor@inria.fr

✓CyberSec4Europe: David Goodman, Trust in Digital Life, UK, <u>david@trustindigitallife.eu</u>

✓ECHO: Matteo Merialdo, RHEA GROUPO, BE, <u>m.merialdo@rheagroup.com</u>

✓ SPARTA: Géraud Canet, CEA, FR, geraud.canet@cea.fr
 ✓ ECSO: Roberto Cascella, roberto.cascella@ecs-org.eu

# APPENDIX KEY EVENTS & INFO 2H/2D19



### Key ICT Event Dates [Finnish Presidency]

### **EUROPEAN BIG DATA VALUE FORUM 2019 (14 – 16 Oct)**

The European Big Data Value Forum is a key European event for industry professionals, business developers, researchers, and policy makers to discuss the challenges and opportunities of the European data economy and data-driven innovation in Europe. About 700 attendees expected, event is coordinated by VTT.

### Key ICT Event Dates [Finnish Presidency]

### **SECURITY RESEARCH EVENT 2019 (6 – 7 Nov)**

SRE 2018 will gather 800 participants representing a wide range of security stakeholders: researchers, industry representatives, public security providers and practitioners (for example fire departments, police forces and border guard and law enforcement agencies), as well as policymakers.

### <u>SET-Plan (14 – 15 Nov)</u>

SET Plan conference 14. – 15.11.2019 targets to energy sector for about 500 participants.

### Key ICT Event Dates [Finnish Presidency]

EFECS - European Forum for Electronic Components and Systems (19 – 21 Nov)

EFECS 19. – 21.11.2019 is the international forum with a focus on 'Our Digital Future' along the Electronic Components and Systems value chain in Europe. The organizers of the event include ECSEL Joint Undertaking and the European Commission, in association with EUREKA. Around 700 participants are expected.



## What Else to Do?

- ✓ Attend: Business Finland | Horizon 2020/SC7 webinar on 8 Oct 2019 (held in Finnish)
- ✓ Join: Business Finland | Horizon 2020 Group in LinkedIn
- ✓ Subscribe: Business Finland | Newsletter
- ✓ Visit: Business Finland | Digital Trust Finland Program
- Check: Finnish Horizon 2020 Contacts & Organizations
- ✓ Explore: Finnish Information Security Cluster FISC ry



## WORLD IDEAS

Pekka Rantala

Senior Advisor | Growth Companies Horizon 2020 NCP (ICT, eHealth & Cybersecurity) +358 50 396 2922 pekka.rantala@businessfinland.fi businessfinland.fi/en | horisontti2020.fi