

## **OVERVIEW**

- ► The approach
- ► The structure
- ► SPARTA research programs
- ► SPARTA partnership
  - ► SPARTA associates
  - ► SPARTA monthly events
  - ► Joint Competence Centre Infrastructure (JCCI)
- ► Conclusion



# Russians Win Race To aunch Earth Satellite

## Man On Threshold Of Space Travel =

By DANIEL F. GILMORE United Press Staff Correspondent

LONDON (UP)-The pulsating radio "beep" of the first manmade earth satellite signalled today to the world that man had crossed the threshold into the age of travel through

space.

The Soviet Union announced it had won the race into space by launching an earth satellite Friday, a 184-pound, 22-

inch globe now orbiting the earth at 18,000 miles an hour,

560 miles up.

Millions of persons throughout the world heard the "beep...beep... beep..." rebroadcast today by local stations and realized that man

WEATHER

WEST VIRGINIA-Partly clouds

The best instruments to use are ordinary binoculars or telescopes. Powerful telescopes won't pick it

up because of their narrow fields. Through optical instruments, the satellite will look like the

How To Spot Satellite

By UNITED PRESS · Here's how to look for the Russian earth satellite which will be whizzing through the sky at 18.-000 miles an hour.

The best time to spot it is at dawn or dusk when the sky is semi-dark. There is a chance that it could be seen if it travels across the face of the moon at night.

## U.S. May Sp Up Satellite Program

United Press Staff Cor WASHINGTON (UP)scientists caught flat Russia's epic launching man-made moon, indica

By JOSEPH L. M

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in an intercontinents

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Re-imagining the way cybersecurity research, innovation, and training are performed in Europe

- Develop unique but concrete innovation paths
- Setup shared and virtual spaces for collaborations
- Strenghten certification, outreach, and training capacities
- Pull together European, national, and regional ecosystems

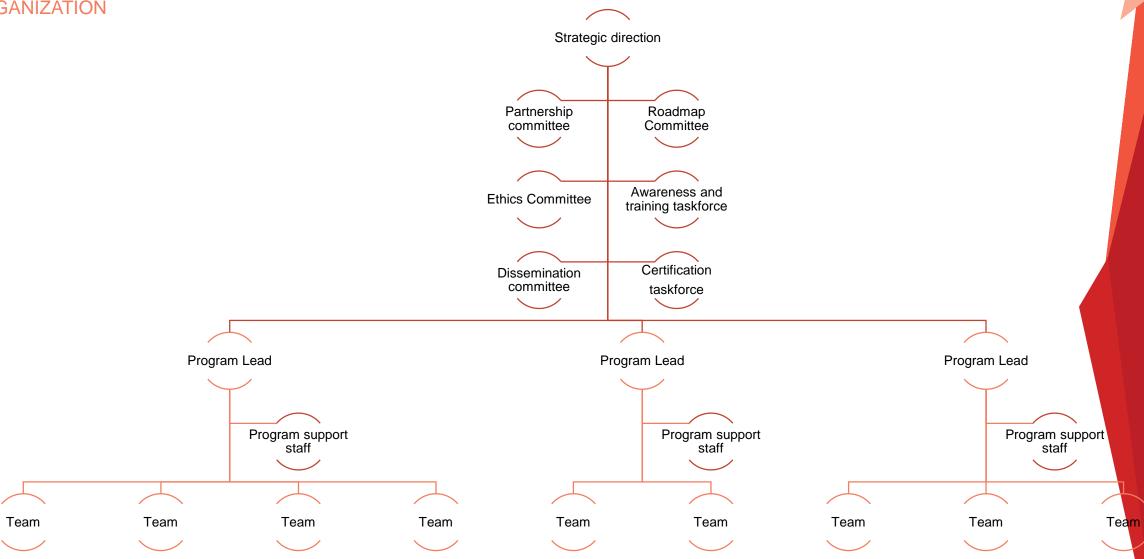
Contribute inter alia to the objective of European strategic autonomy

## SPARTA Structure

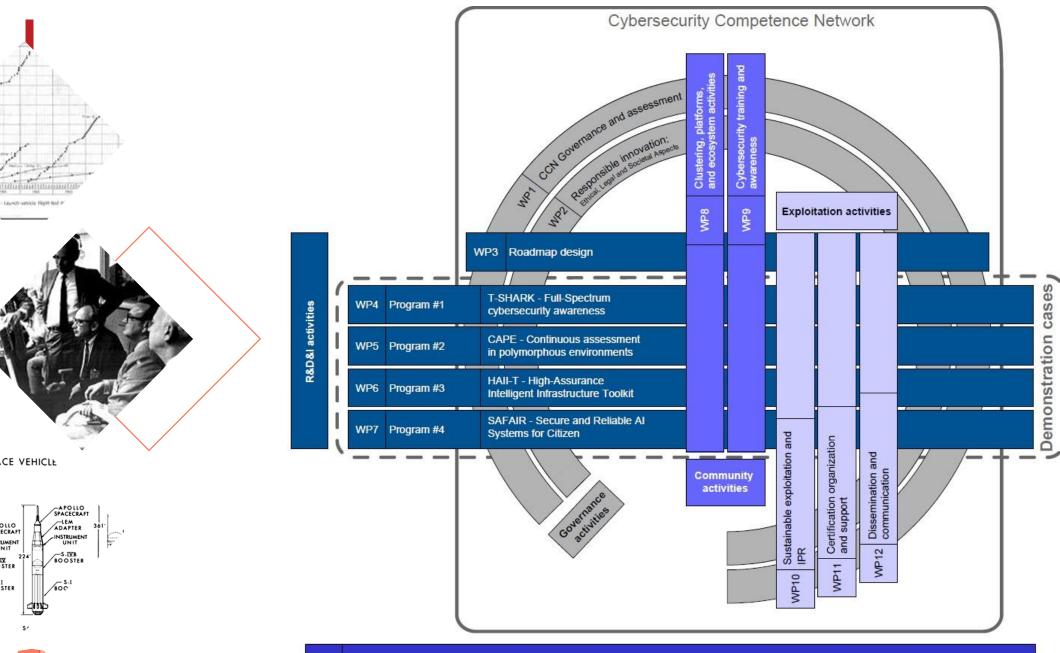
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The performance of the defenders at the the Battle of Thermopylae is used as an example of the advantages of training, equipment, and good use of terrain as force multipliers and has become a symbol of courage against overwhelming odds

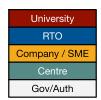






WP13 Project management









LMT Company

## Kauno Techno University

Liet. kiber. nusik. Centre

LT LKA Lietuvos Karc University

PL NASK

LT MRU Mykolo Romerio Universitetas

University



## STRATEGIC PROGRAMS

institutions, grassroots

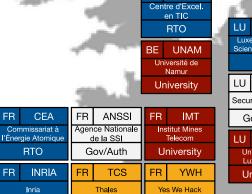
### THE STAKES OF EUROPEAN AUTONOMY

A STRONG BASIS OF EXCELLENCE

44 partners spanning academia, industry,

Pragmatically anchored in member states

Design a long-term roadmap and network of competence centers



Company

BE

CETIC

Company

CINI

CNR

Cons. Interuniv

Naz. per l'Informat

University

Consiglio Naz. delle Ricerche

RTO

RTO

CNIT

Cons. Naz.

University

IT ISCOM

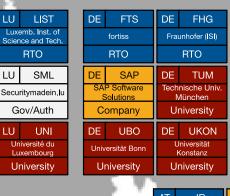
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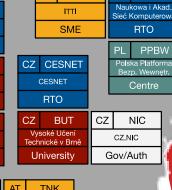
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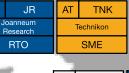
Gov/Auth

Company

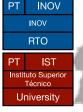
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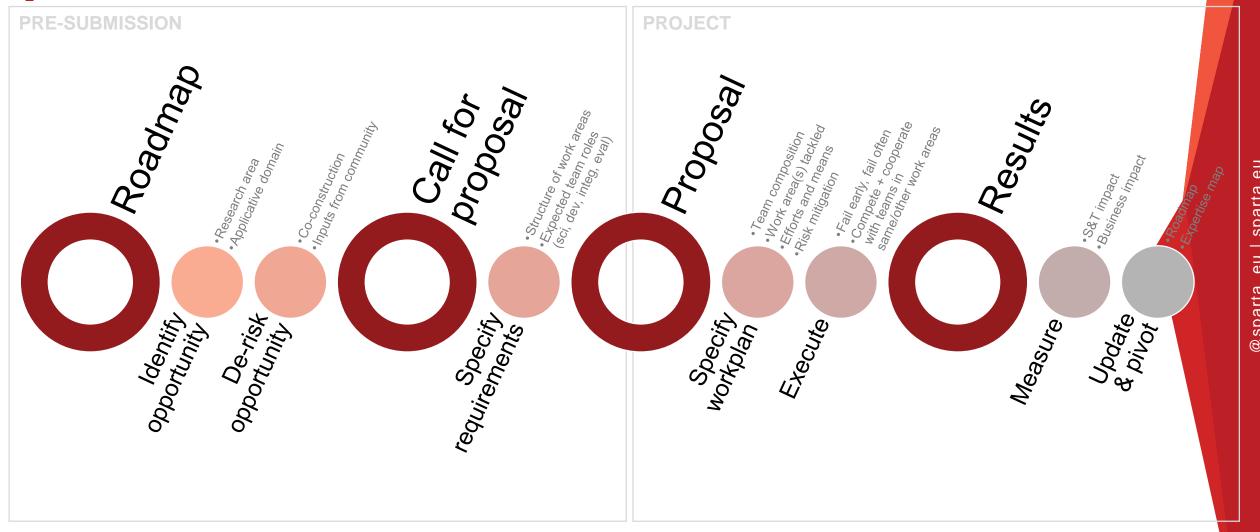
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## SPARTA Research Programs

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## • T-SHARK Full-spectrum cybersecurity awareness

- objective: expand the reach of threat understanding, from the current investigation-level definition, up to strategic considerations, and down to real-time events
- requires: collection of heterogeneous data, models and predictions for multi-level security, Al and visualization
- \* strengths: regulation encouraging information-sharing (NIS directive, French OIV law, ...), strong culture of data protection (GDPR, cryptography, ...)
- aims at : providing decision-making tools, fostering a common cyber security culture, raising preparedness for possible disruptions and attacks
- capabilities: thoroughly supervise critical systems including when they are not provided / integrated by EU actors, raise awareness and citizen involvement

### CAPE Continuous assessment in polymorphous environments

- objective: enhance assessment processes to be able to perform continuously over HW/SW lifecycles, and under changing environments
- requires: binary and code verification, scalable monitoring, network reaction, HW/SW roots of trust, dynamic assurance cases
- strengths: one of the best evaluation ecosystem in the world (Common Criteria, smart cards, ...)
- aims at: building tools for continuous trust in sovereign and foreign-sourced components, systems, and services
- capabilities: drastically increase evaluation capabilities in a world where most of the components are developed outside of the EU, prepare future certification,

### HAII-T High-Assurance Intelligent Infrastructure Toolkit

- objective: manage the heterogeneity of the IoT by providing a secure-by-design infrastructure that can offer end-to-end security guarantees
- requires: formal security models, application security, verification and validation, verified and scalable cryptography, secure OS
- strengths: building on EU's lead position on formal methods for safety and security
- aims at : providing a full verified software stack from applications down to the system software and SW/HW interface, which can serve in a variety of IoT devices
- capabilities: simplify the the deployment of IoT applications; facilitate their certification

### SAFAIR Secure and fair AI systems

- objective: Evaluating security of AI systems, producing approaches to make systems using AI more robust to attackers' manipulation. Furthermore, the goal is to make AI systems more reliable and resilient through enhanced explainability and better understanding of threats
- requires: adversarial machine learning, data from different AI application domains
- strengths: increasing adoption of AI technology in various information systems within EU, recent strategy of EU member states to collaborate on Artificial Intelligence 🥃
- aims at: providing methods and tools for analysis and assessment of security threats for AI systems, and solutions for protection
- capabilities : exploratory



## **SPARTA**Partnership

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14 European member states

44 partners

more than 50 Associates



EC, JRC, Fellow ICT 03 Pilot Projects

And more !!!

Other EU projects for roadmapping as CyberWatching, AEGIS, EUNITY, Standard ICT, ...

Outside EU activities, international dimension

EU agencies as ENISA, EC3, EDA, ESA, ...

(e.g. US/Japan) EU organizations as ECSO, ERCIM, IFIP, ...

## **ASSOCIATES&FRIENDS**

- ► Access to SPARTA Infrastructures and platforms
- ► Contribution to the Roadmap
- ► Access to results of SPARTA programs
- ► Attending Bi-yearly SPARTA meetings

**..**,



## SPARTA PARTNERSHIP



## SPARTA



## SPARTA PROGRAMS



SPARTA ASSOCIATES

#### Region authorities Large groups Universities Clusters Roadmap design and results Χ X Early program results Χ Χ Networking Χ Χ Χ Χ X Training Χ Χ X Certification Capabilities maps Χ Industry X Χ Territorial animation X Χ Χ X **Incubators** X X X

#### **ASSOCIATES**

#### Include actors from

- Large groups and SME
- Local, National, European clusters
- Regional authorities
- Close academic and industrial entities

#### Access to

- P Roadmap and early program results
- Networking with council and SPARTA members

#### **Contributions to**

- Training, certification, and industry capability maps
- Territorial animation
- Incubators

Eligible to complementary late-stage project funding

## **MONTHLY ASSOCIATE WORKSHOPS**

- Each month at least one local SPARTA event involving the associates!
  - Comment on roadmap
  - Spread the SPARTA results
- A country represented in SPARTA is involved

- Opportunity to cluster and shape the local ecosystem and integrate it with the European one (SPARTA ecosystem).
- Btw, sparta means also "sow"/ "spread the seeds" in greek





## APPLY TO JOIN THE SPARTA PARTNERSHIP

- ► Send an email to Fabio.Martinelli@iit.cnr.it (SPARTA Partnership Director) and contact@sparta.eu
- ► Subject: "[SPARTA Partnership]: request to join"

### JOINT COMPETENCE CENTER INFRASTRUCTURE

Digital, physical, virtual. What makes a platform?

#### **OPERATOR**

**PLATFORM** 

PILOT

#### Reference location for teams

- availability of infrastructure and technologies for startups and SMEs
- update of a catalogue, managed with local clusters and authorities
- initial catalogue a deliverable of the project, so as the identification of the themes and partners that could be involved in the first run

Reference experimentation platform for research

Reference facility for training curricula



DISCIPLINES

EXCELLENCE

INFRASTRUCTURE

ECOSYSTEM

LICENSING

VISIBILITY



@spar



# THANK YOU FOR WATCHING!



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