

Marco BALDI

Università Politecnica
delle Marche
&
CINI Cybersecurity
National Laboratory

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The CINI Cybersecurity National Lab



What's it

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- Is one of the National
Labs of



Organization

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The Lab

- Organized as a distributed network of 53 Nodes
- Includes 510+ researchers
- Nodes located in major Italian Universities & research Institutions



Governance

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Management

- Director:
 - Paolo PRINETTO
- Deputy Directors:
 - Alessandro ARMANDO
 - Rocco DE NICOLA

Board of Governors

- 18 members
- Monthly meetings

Mission

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What

- Fostering the Italian national cybersecurity ecosystem

Mission: how to get it

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Action lines

- Research, Development, Technology Transfer
- Awareness & Education
- National affairs
- International affairs

Means

- Strategic Projects
- Research Projects
- Working Groups
- Focus Groups

Mission: how to get it

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Strategic Projects

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- ITASEC
- CyberChallenge.IT
- CyberRange.IT
- CyberExchange.IT
- CyberReadiness

Strategic Projects

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Some data

- 960 people registered
 - Academy/research centers: 311
 - PA and government: 70
 - Industry: 540
 - Press: 17
 - Other: 22
- 6 Workshops
- 8 Tutorials
- Up to 4 concurrent sessions
- Special day for Start-ups
- 1 Minister attended
- 20 sponsors
- 6 Media Partners



PLATINUM SPONSORS



GOLD SPONSORS



SILVER SPONSORS

MEDIA PARTNERS



Next editions

- 2020 – Ancona
- 2021 – Rome



Vision

- Steering Committee
- Serving the Local Community, too
- Satellite Workshops, Tutorials & Events

Strategic Projects

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**CYBER
CHALLENGE**
CyberChallenge.IT

Goals

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- Discover and enhance the ***cyber talent*** hidden in young people (aged 16-23) studying in Italy

Goals

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- Reduce the workforce gap by redirecting part of the potential workforce towards cybersecurity

Goals

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- Discover and enhance the *cyber talent* hidden in young people (aged 16-23) studying in Italy
- Reduce the workforce gap by redirecting part of the potential workforce towards cybersecurity
- Set-up the *National Cyber-defender Italian Team* to attend annual international competitions, such as the *European Cybersecurity Challenge* (ECSC)

A little bit of history

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Year	Node	Students										Admitted	
		Enrolled											
		Totals		Gender		Origin							
		#	#	M	F	High School		University		#	#		
2017	1	683	603	80	57	8,3	626	91,7	20	2,9			
2018	8	1.866	1.698	168	583	31,2	1.283	68,8	160	8,6			
2019	18	3.203	2.830	373	1.341	41,9	1.862	58,1	360	11,2			

What next

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Domestic

- Increase participation:
 - # Sites
 - High school students
 - Gender
- CC.IT Academy

International

- Exporting the format:
 - South Korea
 - Singapore
 - Expo 2020 Dubai
 - إكسبو ٢٠٢٠
 - ...

Strategic Projects

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- ITASEC
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- CyberReadiness

CyberRange.IT

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What

- Network of specialized hybrid academic CyberRanges

Where

- Turin:
IoT, Intelligent Systems,
Industrial Control Systems
- Genoa:
Smart Grids, Mobile
applications
- Tuscany:
Public Administration

Strategic Projects

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- ITASEC
- CyberChallenge.IT
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- CyberExchange.IT
- CyberReadiness

CyberExchange.IT

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- A project aimed at improving student exchanges among Lab's Nodes
- Co-funded by
 - the Lab
 - hosting Nodes
 - sponsors

CyberExchange.IT - Assets

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- Maximum flexibility in terms of:
 - student types: undergraduates, graduates, PhD candidates,
...
 - staying length: typically 4 – 6 months
 - exchange purpose: stage, internship, BS thesis, MS thesis,
...
- Single point of reference: the Lab

Strategic Projects

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- ITASEC
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CyberReadiness

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- A project aimed at assessing the cybersecurity posture of Italian SMEs and local public institutions and administrations
- Based on the Italian Framework 2.0

Mission: how to get it

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SPARTA Project

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- 38 Research Centers
- 4 Industrial Partners
- 13 Countries
- PI: Commissariat à l'énergie atomique et aux énergies alternatives (CEA), France



FINSEC Project

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- A security innovation project funded by the European Commission under the H2020 project



Mission: how to get it

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The Italian Cybersecurity Research Ecosystem

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Italian Inter-University Consortium for
Informatics (47 member Univ.)



Italian National Research Council
(7 Depts, 102 Institutes)



Italian Inter-University Consortium for
Telecommunications (37 member Univ.)



Italian Committee for Cybersecurity Research

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Basics

- Bottom-up approach
- Started on a voluntary basis
- Open to new entries



Italian Committee for Cybersecurity Research

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Lesson learned

- Trust each other



Italian Committee for Cybersecurity Research

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Lesson learned

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- Understand that *together* we can get goals otherwise
unreachable



Italian Committee for Cybersecurity Research

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Italian Committee for Cybersecurity Research

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Lesson learned

- Trust each other
- Understand that *together* we can get goals otherwise unreachable
- *We* is always better than *I*
- To better serve our country, we have to build bridges, not walls

