Workshop

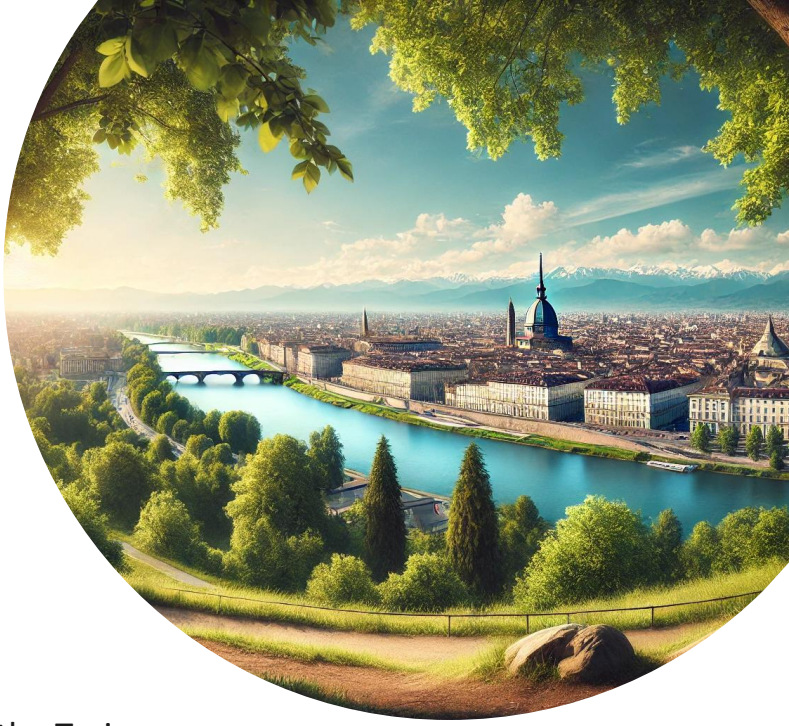
Innovation and intelligence at the edge: the value of secure ICT services

(in presence & online)

22 January 2025

(@Sellalab Open Innovation Center, and online)

WELCOME TO TURIN!



- Relatively small city, in Piedmunt valley (less than 1M inhabitants)
- Historically hosting automotive industry player
  - Stellantis group (ex FCA, ex FIAT) and Tier-1 providers
- Technological, Aerospace and Defense Hub
  - Thales Alenia Space and Leonardo
- Awarded as European Capital of Innovation
  - https://www.eunews.it/en/2024/11/13/turin-european-capital-of-innovation-2024-25/
  - CTE NEXT - technology transfer centre developed on emerging technologies in relevant sectors for the Turin area: smart mobility, 4.0 industry and innovative urban services - https://ctenext.it/en/
- Thriving Startup Ecosystem
  - Techstars Smart Mobility Accelerator - www.techstars.com/accelerators/transformative-world-torino
  - I3P – (Best Public Business Incubator in the world by the World Rankings of Business Incubators and Accelerators 2019-2020) www.i3p.it
  - International Event for investors: Italian Tech Week - https://italiantechweek.com/
- The City is also involved in EU projects
  - https://www.torinoeuprojects.it/

…and thanks to Sellalab for hosting this event!

WELCOME FROM THE HOST

Carla Bertuzzi (Head of Sellalab Torino, Open Innovation Center)

Workshop

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11.00	on-site registration	
11.15	Welcome from the host	Carla Bertuzzi (Head of Sellalab Torino, Open Innovation Center)
11.30	Panel discussion with all speakers, moderated by Dario Sabella	Dario Sabella (VP Technology and Standards @ xFlow Research, Managing Director @ Next G Cloud)
	Short presentations from all speakers (5 mins + Q&A) and common panel on stage (moderated)	
	Cloud Edge and the role of local service providers	Alfredo Nulli (Head of Portfolio, TIM Enterprise)
	Bringing secure cloud services at the edge	Federica Bozzi (Sales & Operations Director, Next G Cloud)
	Customer-oriented service delivery: the experience from xFlow Research	Fazal Khan (President at xFlow Research)
	Edge Computing and The value of Neutral Hosts	Marco Zacchello (Global Principal at Equinix)
	Think Global, Process Local: Distributed AI in the Era of Edge Computing	Antonio Tavera (CEO & Founder, Focoos AI)
	Innovation and standards in ICT industry	Gabriele Elia (Telecom Italia, Head of Standard and IPR)
	A viewpoint on Security, Privacy, Data protection and Regulation	Maurizio Bulgarini (Partner at Smart Flow)
	Towards an intelligent, AI-native 6G network	Giacomo Bernini (R&D Operations Leader at Nextworks)
12.45	Final remarks from moderator and the host	Dario Sabella and Carla Bertuzzi
13.00	End of the workshop	

WORKSHOP

“ *Innovation and intelligence at the edge: the value of secure ICT services* ”

- The workshop involves presentations from companies and academia, focusing on edge computing technologies and enablement of secure ICT services. Topics include AI, Cybersecurity, quantum, 5G evolutions, and also standards, regulation and compliance.
- This hybrid event, organized by NEXT G CLOUD, puts together on stage a set of outstanding speakers from the Italian and international ecosystem and it will be hosted by the Open Innovation Center Sellalab in Turin.

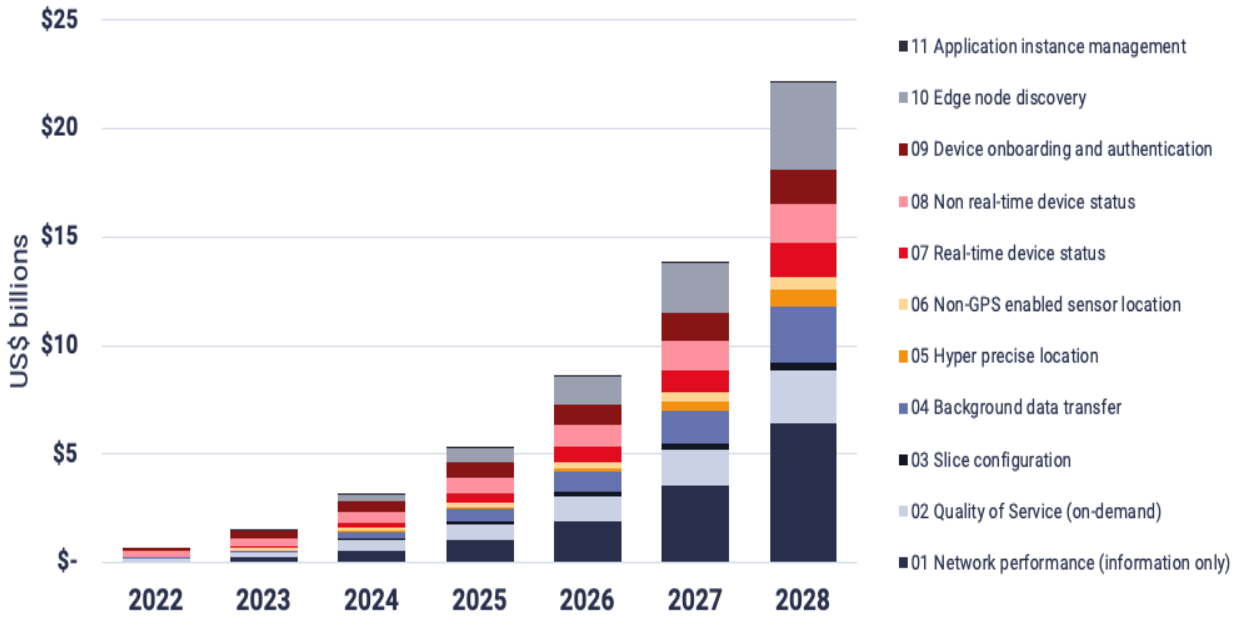
ICT SERVICES AND COMPUTING TRENDS

- **Edge Computing**: according to a 2023 report from Dell'Oro Group the Mobile Core Networks (MCN) and MEC market revenues are expected to reach over $50 billion by 2027.Estimates are finding more attractive **private edge** deployments, addressing enterprise, especially in **industrial / warehouse segments**.

- Looking forward to new markets opened by **APIs**, according to McKinsey, over the next 5-7 to years, the network API market could unlock around $100 billion to $300 billion in connectivity- and edge-computing-related revenue for operators (exhibit) while generating an additional $10-30 billion from APIs themselves (NaaS).

…and what about AI ?

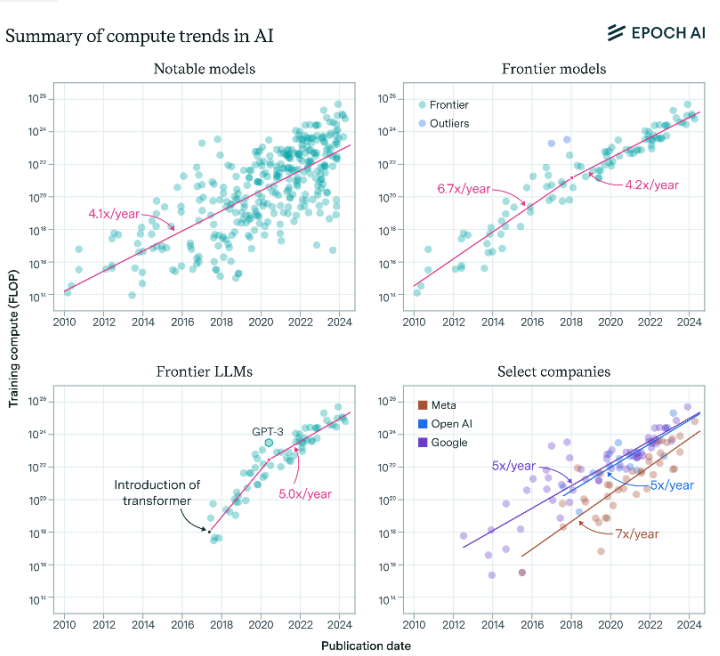
Network-as-a-service (NaaS): APIs, AI and the open cloud

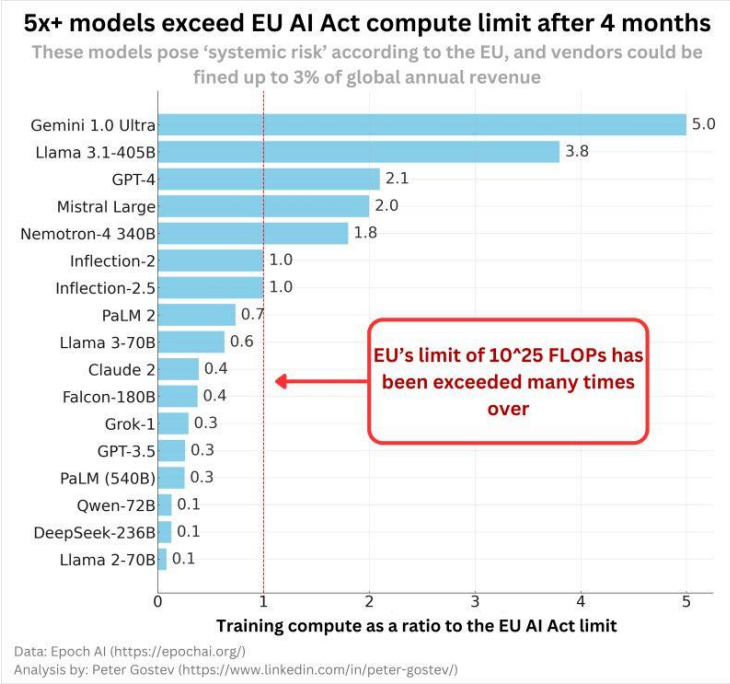


Source: STL Partners

ICT SERVICES AND COMPUTING TRENDS

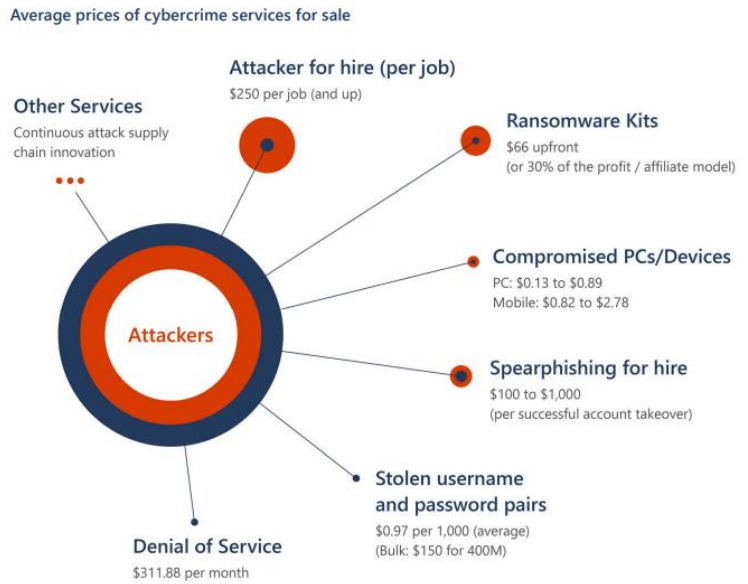
- AI is getting everywhere. Current trends still show a growth in terms of compute resources.
- EU's **AI act** (adopted in March 2024) has set out a threshold of compute for training a model of 10^25 FLOPs, after which AI companies are considered to pose *'systemic risk*' and thus have a set of regulations to respect.
- For example, they must:
  - Notify Commission within 2 weeks
  - Conduct model evaluations and adversarial testing
  - Assess and mitigate systemic risks
  - Report serious incidents
  - Ensure cybersecurity
  - Disclose energy consumption
  - Comply with codes of practice or demonstrate alternative compliance
  - Subject to oversight by AI Office
  - Register in EU database
- Failure to comply:
  - Fines up to 3% of annual global turnover or €15 million, whichever is higher
  - Potential market restrictions
  - Possible forced corrective actions





ICT SERVICES AND COMPUTING TRENDS

- **Security** is another topic of growing importance
  - Cyber threats are becoming more sophisticated, according to Microsoft's 2021 Digital Defense Report.
    - The report analysed trillions of threat signals and identified cybersecurity threats and trends from the previous year, informed by telemetry from over 1.2 billion PCs, servers and internet of things devices that access Microsoft services, as well as data from 630 billion authentication events, 470 billion emails and over 18 million URLs.
  - Examples of data breaches in 2023 (from Metomic)
    - T-Mobile US was hit by a data breach that affected **37 million customers**. The compromised data types included names, billing addresses, email addresses, phone numbers, dates of birth, T-Mobile account numbers, and details about service plans (more info reported by Reuters).
    - Capital One's security was breached due to a vulnerability within the systems of NCB Management Services, a partner firm. This breach, which began on February 1 and was uncovered on February 4, exposed **sensitive financial data** of around 16,779 customers (more info at The Records)



…so we need to secure our infra and services

DART = Detection and Response Team

PANEL DISCUSSION

INNOVATION AND INTELLIGENCE AT THE EDGE: THE VALUE OF SECURE ICT SERVICES

NEXT G CLOUD

CLOSING REMARKS

- Q&A and open discussion ☺

Cloud Edge and the role of local service providers	Alfredo Nulli (Head of Portfolio, TIM Enterprise)
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And now …Enjoy the LIGHT LUNCH offered at the Foyer!

THANKS!

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