

The Winter 2026 Plenary Meetup of the CompSys NL community and IPN SIG on Future Computer Systems and Networking

Ana Lucia Varbanescu, Paola Grosso, Fernando Kuipers, Alexandru Iosup and the CompSys NL community



<https://ict-research.nl/groups/special-interest-groups/fcsn/>

Plan for Today (still flexible)

11:00 - 12:30 - Session 1: Introduction, Updates, Who's who, and WG presentations -

- Moderator: Ana-Lucia Varbanescu.
- Welcome, schedule/agenda, local arrangements (Ana)
- Introduction, Updates, Plans, and Goals for CompSys-NL - (Alexandru, Fernando, Paola)
- **ICT.Open Updates** (Ben and Semeen)
- **CompSys Updates** (Nishant, Marios, VP)
- **NWO Updates** (with special thanks to Paul Blank)
- **Working groups presentations** (WG representatives)
- Who's who session (Ana)

13:30 - 14:30 - Session 2: Manifesto 2.0 / Moderator: Fernando Kuipers

15:00 - 16:00 - Session 3: Engaging stakeholders / Moderator: Paola Grosso

16:00 - Closing remarks (Ana, Fernando, Paola)

16:03 - 16:30 - Informal networking (all!)

- [5 mins] post-event processing and collection of ideas

Wrap up

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11:00 - 12:30 - Session 1: Introduction, Updates, Who's who, and WG presentations -

13:30 - 14:30 - Session 2: Manifesto 2.0 / Moderator: Fernando Kuipers

- Reminder of manifesto content structure (Fernando)
- Path towards Manifesto 2.0: open discussion to plan the process, roles, and timeline (all)

15:00 - 16:00 - Session 3: Engaging stakeholders / Moderator: Paola Grosso

- invited talks from SURF on digital sovereignty (Wladimir Mufty) and SURF's view on the future of technology (Gül Akcaova).
- open discussion for relevant stakeholders (all!)

16:00 - Closing remarks (Ana, Fernando, Paola)

16:03 - 16:30 - Informal networking (all!)

- [5 mins] post-event processing and collection of ideas

Wrap up

This is the Computer Systems and Networking Golden Age!

ECONOMY AND SOCIETY
ARE BUILT ON DIGITAL

€460 MLD

DIGITAL VALUE

3,3 MLN

JOBBS CREATED

56%

JOB GROWTH
2019-2024



Diverse, Digital Services for ALL

Impacting >60% of
the NL GDP (1 trillion EUR/y)

Every €1 → €15 Added Value

Attracting >20% of
all foreign direct investments in NL

Sources: Dutch Data Center Association, 2020 and updates [\[Online\]](#)
Growth: NL Gov't, Flexera, Binx 2020. Gartner 2019. IA 2017.

A (self-selected biased) Long List of Past and Present Innovations

- CD, Bluetooth, Wi-Fi, DVDs, Blue-ray
- Foundations of computing (Dijkstra)
- THE multiprogramming system, MINIX, Amoeba
- Amsterdam Compiler Kit
- Python, Vim
- Internet connectivity in the Europe
- Amsterdam Internet Exchange, ASML, Philips



Back to the Future

SIG - Future Computer Systems and Networking (FCSN)

Future Computer Systems and Networking Research in the Netherlands: A Manifesto

bit.ly/ManifestoCompSysNL



Prof.dr.ir. Fernando Kuipers



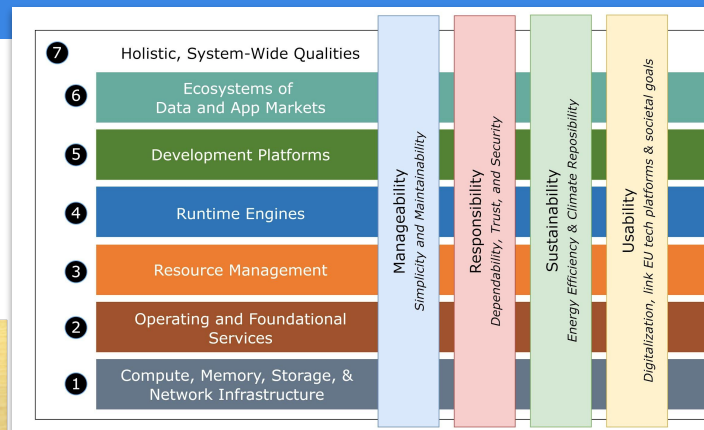
dr. Paola Grosso



dr.ir. Ana Lucia Varbanescu



Prof.dr.ir. Alexandru Iosup



Four Grand (Verticals) Cross-disciplinary Societal Challenges



Manageability

- Complexity management, abstractions, human-in-the-loop, digital ecosystems

Responsibility

- Privacy, ethical, security, performance, availability, and durability

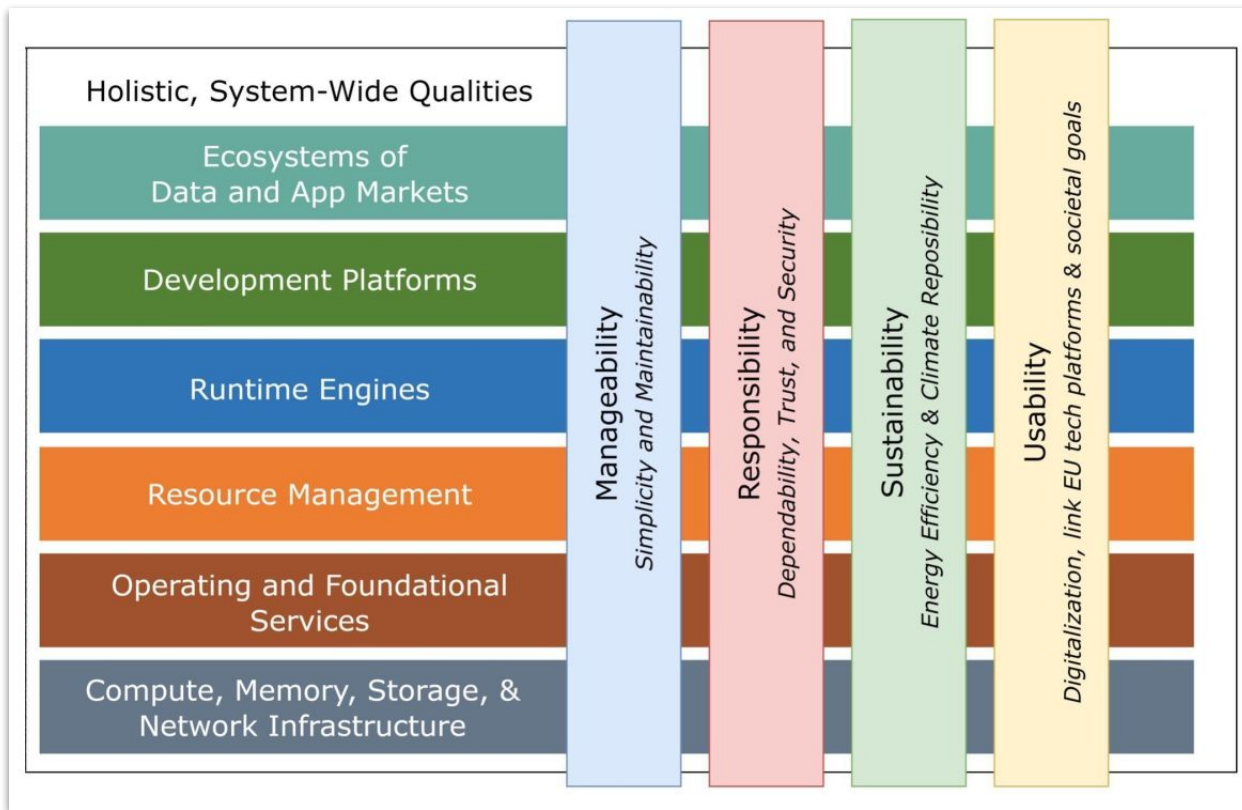
Sustainability

- Energy footprint, sustainable computing

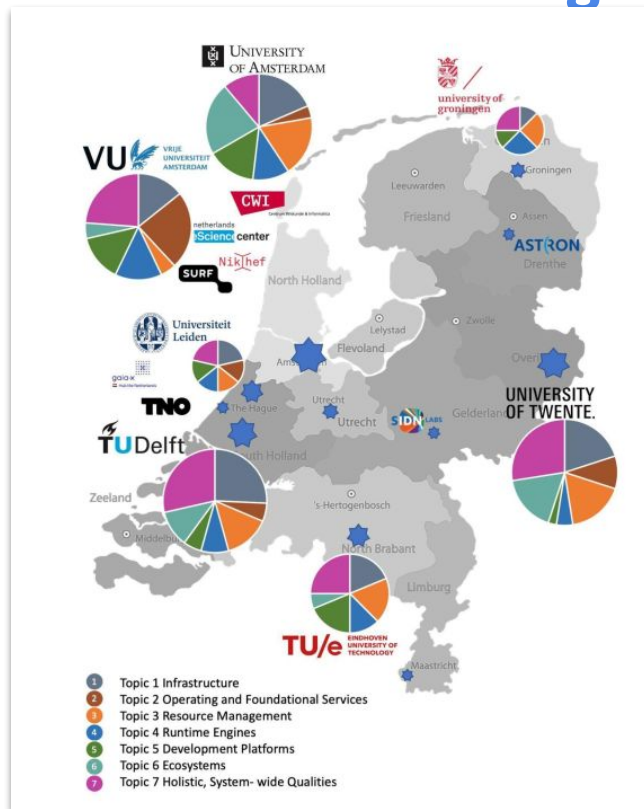
Usability

- Healthcare, sciences, governance, society

(Horizontals) Foundational Research Themes



Computer Systems and Networking Research Landscape



Session 3:
Engaging
stakeholders

<https://www.compsys.science/people/>

10 Recommendations from the CompSys-NL Manifesto



1. Invest in personnel for holistic CompSys research.

2. Establish and maintain a coalition for CompSys.

3. Invest in CompSys infrastructure for research, demonstrations, proof-of-concepts, and pilots.

4. Recognize and fund cross-disciplinary translational CompSys research and open ICT science.

5. Harmonize the national curriculum on CompSys topics, to the extent possible.

6. Extend CompSys education and training to all levels of our society. Be inclusive.

7. Link investment in research to hiring from under-represented groups, to foster diversity.

8. Ensure alignment with and integration into EU technology platforms and societal goals.

9. Introduce an ICT plan in NWO proposals that rely for their success on ICT infrastructure.

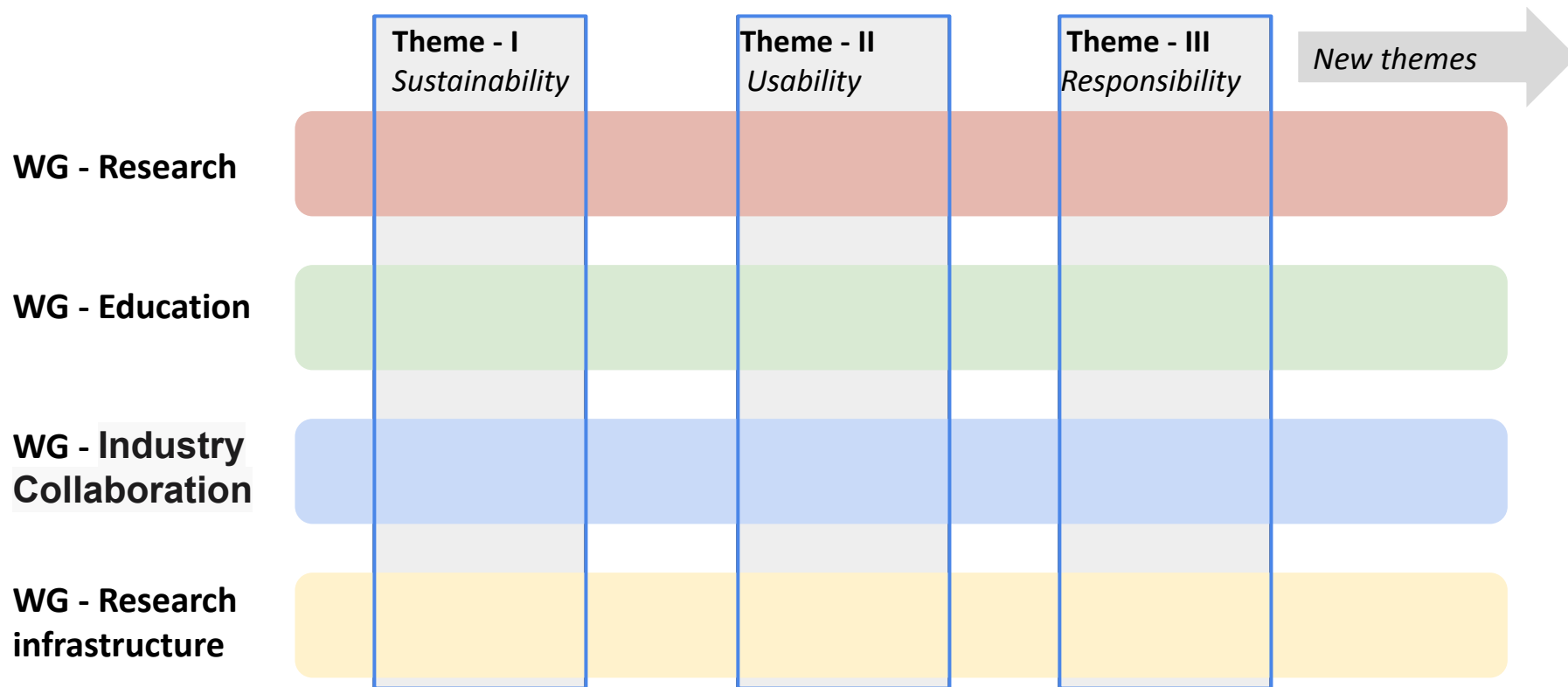
10. Align strategic investments in computing in the Netherlands.

Session 2: 2026 revision

IPN FCNS Structure

- A higher-level **Working Group (WGs)**
 - 2x/year meetup, general
 - 1x/month meetup, to check progress, manage together Activities
- Cross-WG meetup, around **a Theme**
 - A theme could be derived from an existing WG, e.g., Sustainability
 - A theme could emerge across groups, e.g., Academia-Industry Partnerships, Translational ICT Research, Data Sharing
 - 1x/year
- Inside a Theme/WG, we have **Activities**
 - Meet frequently, typically at least 1x/month
- **Goals:**
 - Roadmaps, white papers
 - Lead Up to join high-impact calls: Groiefondsprogramma, Perspectief, NWA, ...

Working Groups and Themes



IPN SIG on Future Computer Systems and Networks (FCSN) – We Work Together!



Photo: Kasteel De Vanenburg



CompSys
NL

Partnerships and Collaborations Through WGs

Session 3



IPN Menu ☰



Next Meetup: CompSys 2026

CompSys 2026 (June 2026)



Welcome to CompSys 2026, a Computer Science conference designed to highlight Dutch Computer Systems and Networks research, while fostering and strengthening national and international collaboration. We aim to provide a meeting space for network, computing, and computer system research and industry ideas.

Latest news and announcements:

- **4 February 2026:** The CompSys 2026 website is up!

<https://www.compsys.science/conference/current/>

The 9th edition will take place on 16-18 June 2026, in collaboration with NCCV, the Netherlands Conference on Computer Vision