



European cloud developments

- Bjorn Hakansson, TNO

Centre of Excellence - Data Sharing and Cloud

TNO innovation
for life

Introduction

- Some relevant European and Dutch developments
- 12 actions with impact on digital autonomy for cloud
- The cloud landscape is in development

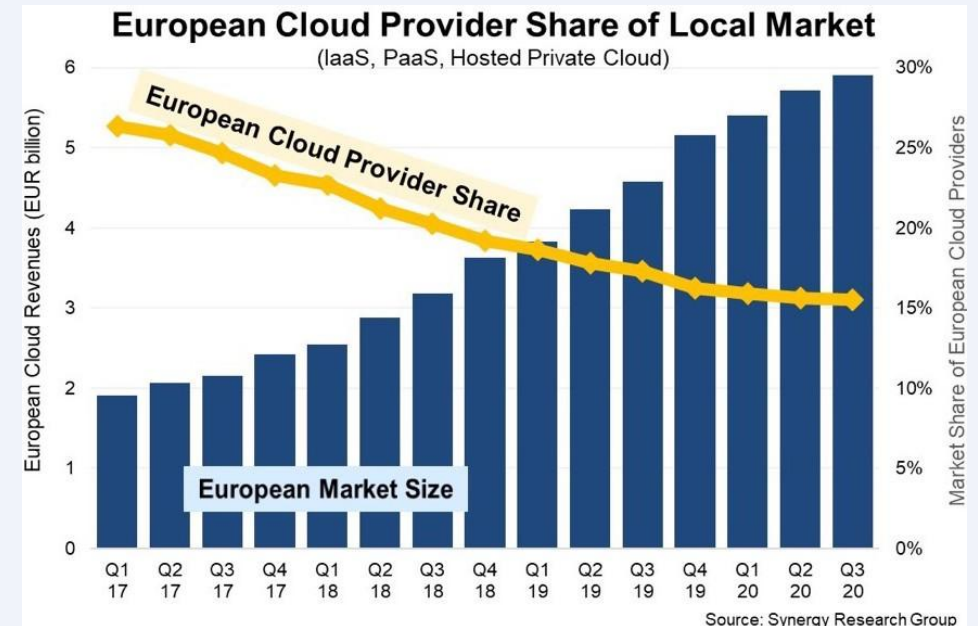


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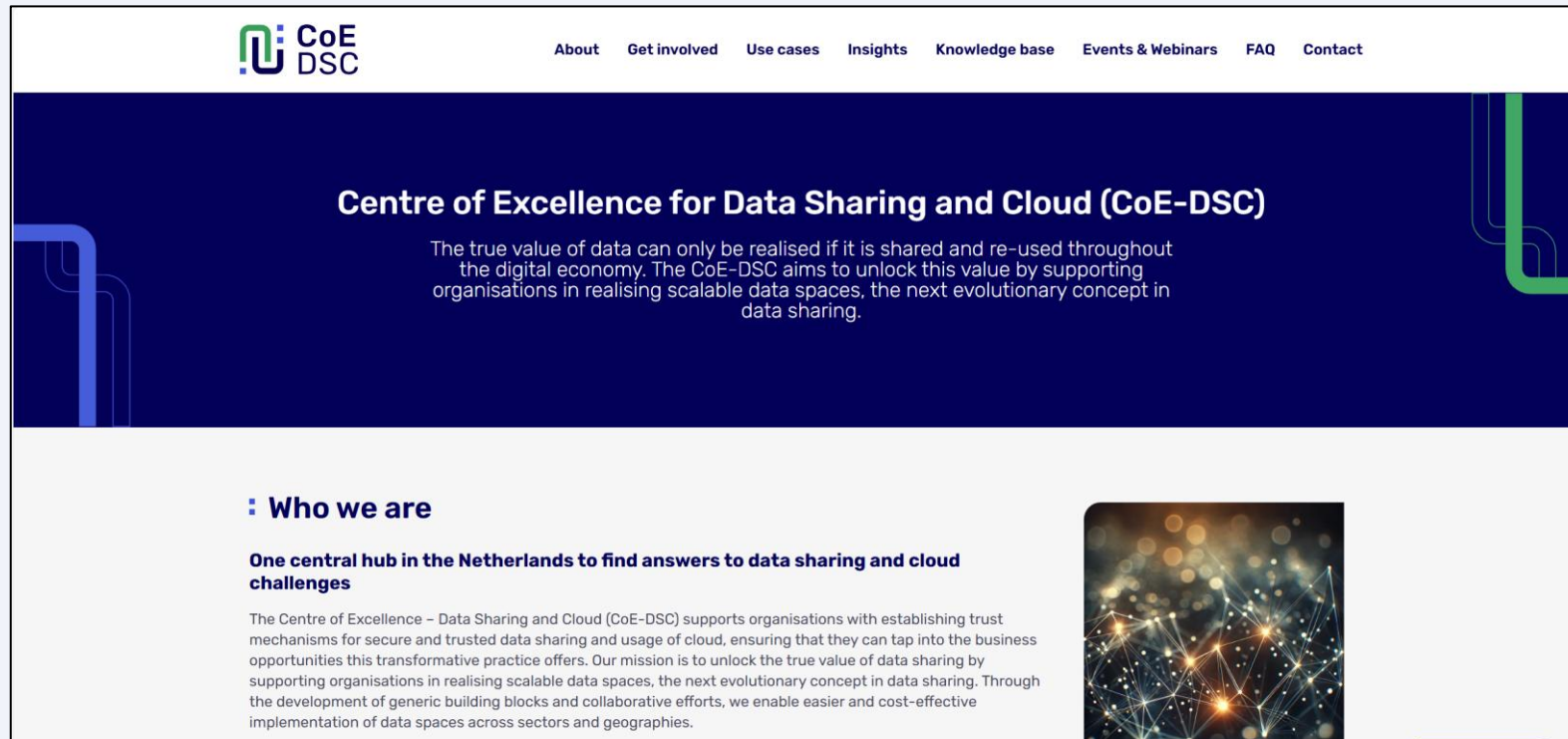
The initial trigger for developments in Cloud & Data

- The dominance in the growing cloud market of the non-EU hyperscalers triggered a number of European initiatives already years ago:
- Industry-led **initiatives** like Gaia-X.
- EU-led initiatives for new **legislation** like the Data Act (to complement the Digital Markets Act, the Digital Services Act and other legislation).
- EU-led initiatives to enable **projects** like IPCEI-CIS and SIMPL.
- Since then, other developments and initiatives have also emerged, making the European developments in the cloud landscape a hot topic both on European and on national levels.



The Centre of Excellence for Data Sharing & Cloud

- The Centre of Excellence for Data Sharing and Cloud (CoE DSC) is organized by Dutch knowledge institute TNO. The CoE DSC funds some market-development projects and organizes various community events. In short; it acts as a knowledge hub for many developments in data and cloud for the Dutch market.



The screenshot shows the homepage of the Centre of Excellence for Data Sharing and Cloud (CoE-DSC). The header features the CoE DSC logo and a navigation menu with links for About, Get involved, Use cases, Insights, Knowledge base, Events & Webinars, FAQ, and Contact. The main content area has a dark blue background with the title "Centre of Excellence for Data Sharing and Cloud (CoE-DSC)" and a mission statement: "The true value of data can only be realised if it is shared and re-used throughout the digital economy. The CoE-DSC aims to unlock this value by supporting organisations in realising scalable data spaces, the next evolutionary concept in data sharing." Below this, there is a section titled "Who we are" with a sub-heading "One central hub in the Netherlands to find answers to data sharing and cloud challenges" and a paragraph describing the center's mission. To the right of the text is a decorative image of a network of glowing nodes and connections.

Check out the website <https://coe-dsc.nl/> for events, newsletters and other information.

EU and the Draghi report

- The recent report from former ECB president Mario Draghi on The future of European competitiveness has received a lot of attention in media.
- Some of the key points in this report concern digital innovations:
 - “Europe largely missed out on the digital revolution led by the internet and the productivity gains it brought: in fact, the **productivity gap** between the EU and the US is largely explained by the tech sector. The EU is weak in the emerging technologies that will drive future growth.”
 - “With the world on the cusp of an AI revolution, Europe cannot afford to remain stuck in the “middle technologies and industries” of the previous century. **We must unlock our innovative potential.**”



“Important Projects of Common Interest (IPCEIs) should be expanded to all forms of innovation that could effectively push Europe to the frontier in strategically important sectors and benefit from EU financing.”

The new European Commission 2024 - 2029

- EVP Henna Virkkunen was assigned Tech Sovereignty, Security and Democracy with a.o. these tasks in her mission letter:
 - Boost **Artificial Intelligence innovation**, ensure access to the **AI Factories**. Develop an AI strategy and set up European AI Research Council.
 - Intensify efforts and investments concerning the next wave of frontier technologies.
 - Develop an **EU Cloud and AI Development Act** to increase computational capacity and develop a single **EU-wide cloud policy** for public administrations and public procurement.
 - Present a **European Data Union Strategy** to ensure a simplified, clear and coherent legal framework for business and administrations to share data seamlessly and at scale.
 - Etc.



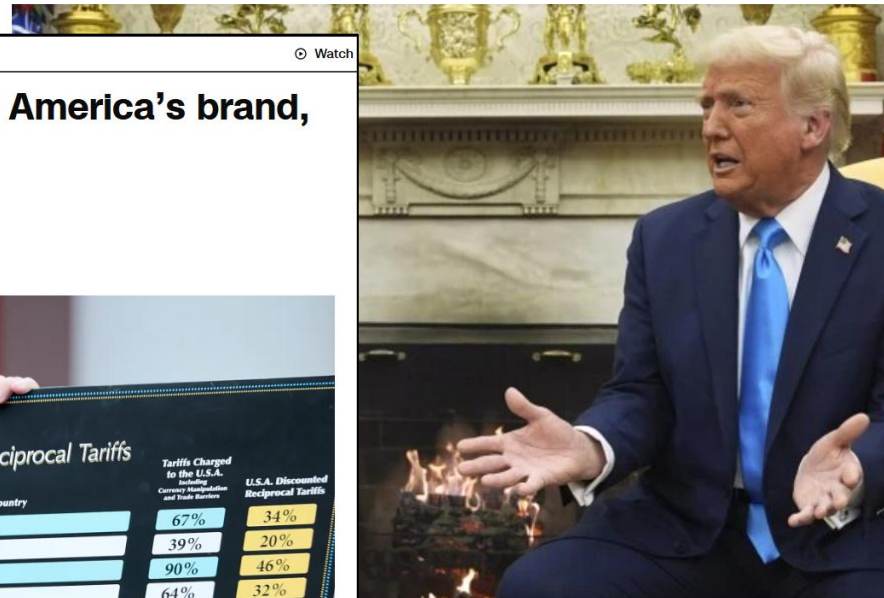
We must exploit our strengths in order to maintain or attain leadership in strategic technologies, to establish essential assets for technological sovereignty and resilience, and to foster commercialisation of deep tech innovation.

And then came Trump...

- The new US administration has set the topic of digital sovereignty clearly on the agenda.

It's all about control: U.S. sanctions against the International Criminal Court and navigating a path forward

Posted on February 12, 2025 by Mark Kersten



(Photo: AP)

CNN Business Markets Tech Media Calculators Videos Watch

Trump's trade war is wrecking America's brand, from Teslas to Treasuries

Analysis by Allison Morrow, CNN
3 minute read · Updated 7:11 AM EDT, Wed April 16, 2025

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Country	Tariffs Charged to the U.S.A. (Current Tariffs on U.S. Exports and Trade Services)	U.S.A. Discounted Reciprocal Tariffs
China	67%	34%
European Union	39%	20%
Vietnam	90%	46%
Taiwan	64%	32%
Japan	46%	24%
India	52%	26%
South Korea	50%	25%
Thailand	72%	36%
Switzerland	61%	31%
Indonesia	64%	32%
Malaysia	47%	24%

Microsoft vows to protect European operations from Donald Trump

Tech group says it would sue to keep European access to crucial cloud services



Cloud is a hot topic in EU, but also nationally

digitaal / nieuws

Rijk heeft geen grip op cloudgebruik

Uit onderzoek van de Algemene Rekenkamer blijkt dat het rijk overzicht mist over het gebruik van de cloud.

Marjolein van Trigst 15 januari 2025



Plenaire debat

Debat over het rapport van de Algemene Rekenkamer 'Het Rijk in de cloud'

De vergadering moet nog plaatsvinden

[Bekijk dagoverzicht](#)

Zaal: Plenaire zaal

fd.

Bedrijven onderzoeken ontsnapping uit de Amerikaanse cloud

Jasper Houtman, Sandra Olsthoorn

IT-dienstverleners krijgen de afgelopen weken veel meer vragen van klanten over



Groot deel van Tweede Kamer wil SIDN-migratie naar AWS tegenhouden

Een groot deel van de Nederlandse Tweede Kamer wil de verplaatsing van het .nl-domein AWS tegenhouden. VVD, Groenlinks-PvdA en NSC hebben daarvoor een motie ingediend een debat met staatssecretaris Zsolt Szabó, die zegt een eigen clouddienst te willen onderhouden.

Op dinsdag stemt de Tweede Kamer onder andere over [een ingediende motie](#) van Barbara Kathmann van GroenLinks-PvdA, Jesse Six-Dijkstra van NSC en Martijn Buijsse van de VVD. In de motie pleiten de partijen ervoor 'om in overleg te gaan met SIDN en nationale cloudaanbieders om ook het beheer van de DNS-keten dat naar Amazon gaat weer in Nederland te krijgen'. De partijen willen dat de Tweede Kamer daar voor het zomerreces over informeert. De partijen achter de motie hebben al 69 van de 150 zetels in de Kamer, waarmee een Kamermeerderheid binnen handbereik ligt.

Ruim baan voor EU-cloud nu Tweede Kamer op stopknop drukt

18 MAART 2025 - 23:06 | 6 MINUTEN LEESTIJD | [ACHTERGROND](#) | [CLOUD & INFRASTRUCTUUR](#) | [DECENTRALISATIE](#) | [ECP](#) | [GROENLINKS-PVDA](#) | [INTERMAX](#) | [LEASEWEB](#) | [STICHTING DINL](#)

Alfred Monerie

Aan het verplaatsen van overheids-ict-diensten naar Amerikaanse cloud moet een einde komen. Een Kamermeerderheid in de Tweede Kamer heeft radicaal op de stopknop gedrukt. Dinsdag werd daartoe een motie van Barbara Kathmann (GroenLinks-PvdA) aangenomen. Het kabinet wordt opgedragen onnodige ict-diensten naar Amerikaanse techgiganten te verhinderen. Alleen als de dienstverlening van de overheid in de toekomst een uitzondering te maken.

Digitale weerbaarheid | Nieuws

Tweede Kamer wil snel een alternatief voor Amerikaanse clouddiensten

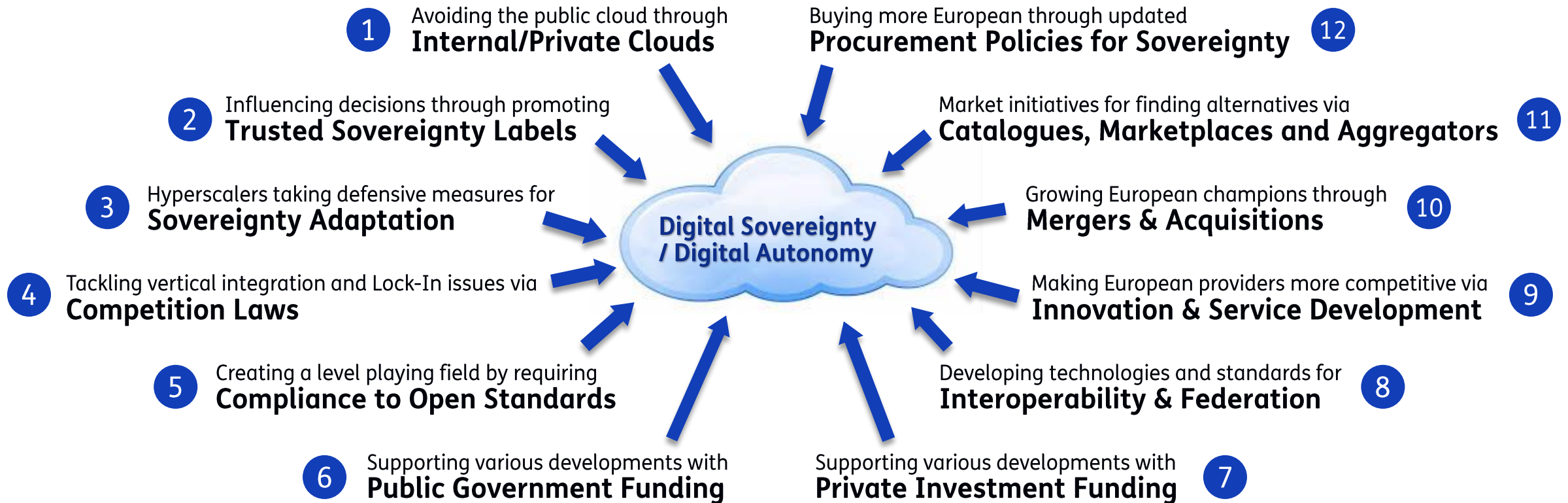


Barbara Kathmann (GroenLinks-PvdA) tijdens het debat. Beeld: ANP / Frank van den Bergh

Datacenter van Amazon Web Services in Ashburn, Virginia. Bij de

12 actions with impact on digital autonomy for cloud

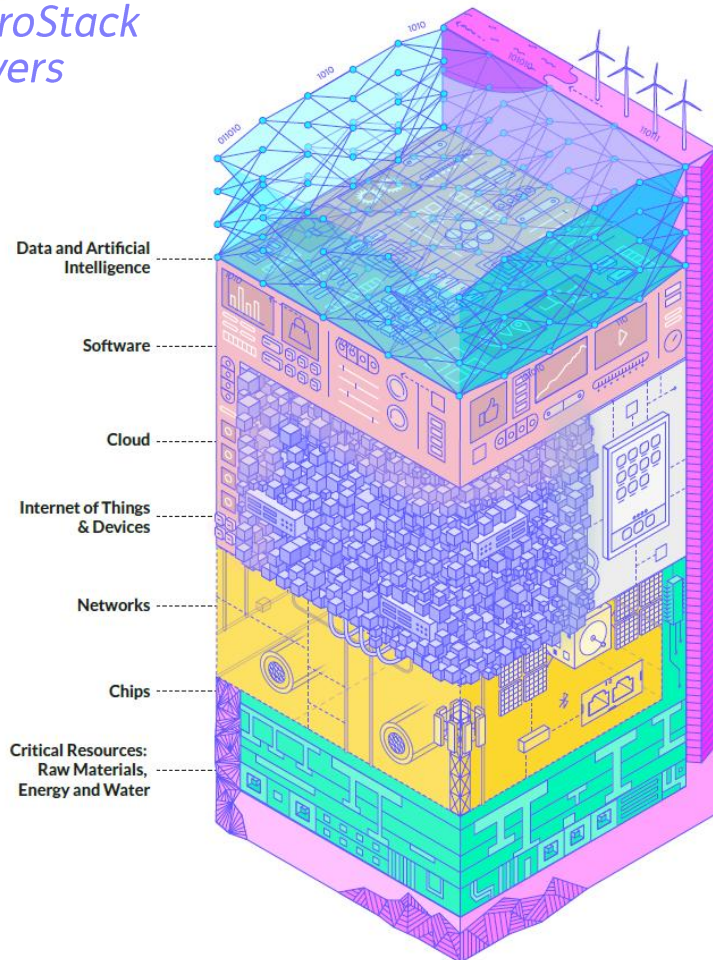
- Cloud sovereignty and digital autonomy are hot topics and several forces are involved that will have an impact on the developments in the cloud landscape. Below some of the most common ones.



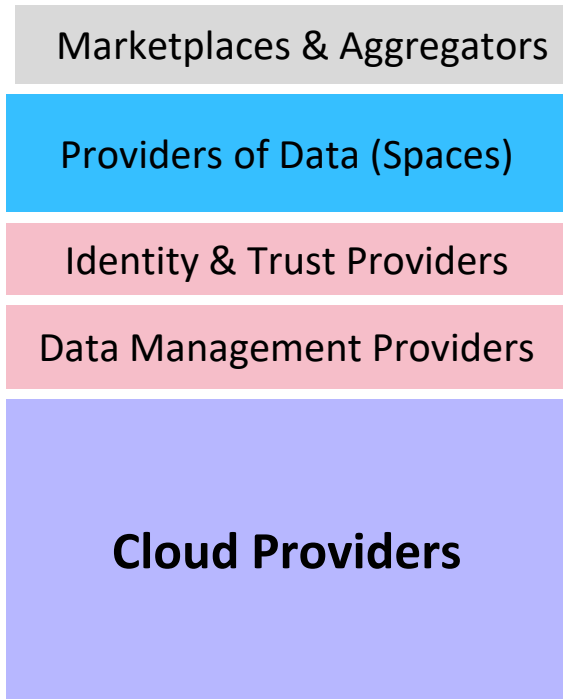
The cloud landscape is in development

- There are several developments for a more open and transparent cloud landscape, where cloud providers can use new open-source software based on open standards for better interoperability:

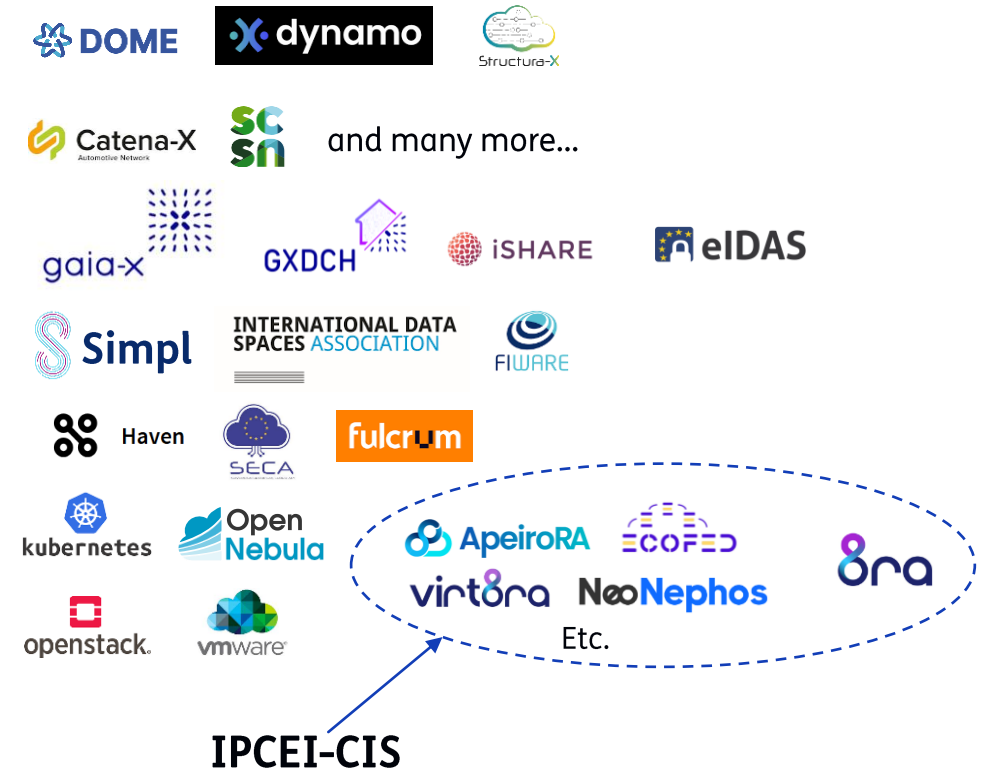
EuroStack layers



Providers in selected layers:



Players / Open-source software:



Note: Examples mentioned in this slide are just some of the key examples relevant for the cloud landscape. There are many more initiatives, especially if the scope is wider than cloud.

IPCEI-CIS



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