FONASBA
Annual Meeting

October 15th 2025,
Istanbul

IPCSA
International Port Community Systems Association

NETWORK OF TRUSTED NETWORKS
Connecting and sharing data globally between ports and cross border

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Nico De Cauwer

IPCSA International Port Community Systems Association

- IPCSA Secretary-General
  - Official IMO/MSW-expert, Member of IMO's FAL Committee & IMO's Expert Group on Data Harmonization (EGDH)
  - Member of the Data Collaboration Steering Committee of IAPH
  - official Expert in Transport & Logistics domain within UN/CEFACT

Port of Antwerp Bruges

- Business Architect Digitalisation & Innovation, Port Community Solutions, within Port of Antwerp-Bruges.

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Who is IPCSA ?

IPCSA
International Port
Community Systems
Association

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International Port
Community Systems
Association

“A Community of Communities”

55 Members operating in over 50 Countries

Members Operating in excess of 500 Sea Air Ports, Inland terminals & border crossings

Seaports, Airports, PCS Operators, Single Window Operators

Over 50bn electronic exchanges per annum and 1.5m+ users

Covering 500m + TEUS 20bn + Tonnes of cargo

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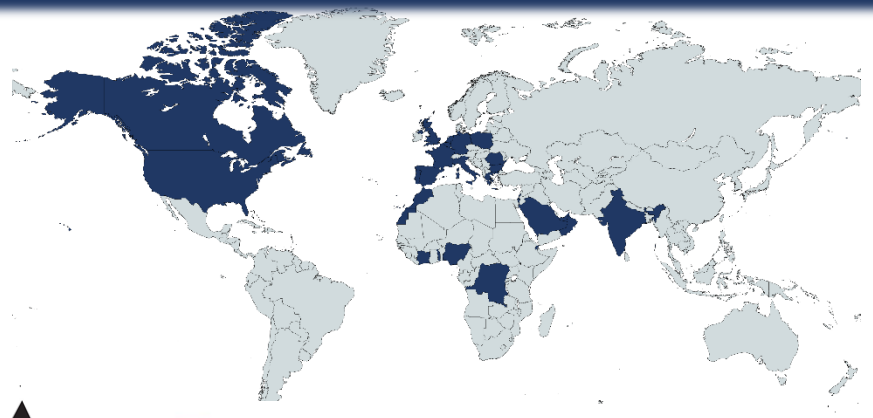
IPCSA MEMBERS 2025



dbh Logistics IT AG

SOGET Fluidity for your business

DAKOSY

be smart. get connected.
portbase

MCP plc
Port Community Systems

PORTIC

Autorità di Sistema Portuale del Mar Adriatico Centro Settentrionale
Port of Ravenna

Autorità di Sistema Portuale del Mar Ligure Orientale
Porti di La Spezia e Marina di Carrara

PORTS of GENOA
VADO LIGURE • SAVONA • PRA' • GENOVA

Autorità di Sistema Portuale del Mare Adriatico Orientale
Porti di Trieste e Monfalcone

Kale Logistics
Technology that Transforms

epuertobilbao

PORT OF PRINCE RUPERT
LINKING A WORLD OF OPPORTUNITY

PORT of vancouver

THE PORT OF LOS ANGELES

DUBAI TRADE

RAK PORTS

DT World

SOHAR PORT / FREEZONE

بوابة المقطع
MAQTA GATEWAY

Port of Antwerp Bruges

ISRAEL PORTS
Development & Assets Company Ltd.

BULGARIAN PORTS
INFRASTRUCTURE Co.

Puertos del Estado

PORTNET
GUICHET UNIQUE NATIONAL DES PROCÉDURES DU COMMERCE EXTÉRIEUR

ANP

DPCS
DJIBOUTI PORT COMMUNITY SYSTEMS

PORT AUTONOME D'ABIDJAN
Une Référence Internationale

CURAÇAO PORTS AUTHORITY

PORT ST. MAARTEN
GROUP OF COMPANIES

BARBADOS PORT INC.

constantza port

PORTEL
SERVICIOS TELEMÁTICOS

TANGER MED
PORT AUTHORITY

Algeciras Port

mgi
LOGISTICSITEXPERTS
FOR FASTER AND MORE SECURE FLOWS

Port of Rotterdam

Port of Amsterdam

CNSI

HPCS

porto de sines

HPA
Hamburg Port Authority

valenciaport
Autoridad Portuaria de Valencia

polski pcs

INDIAN PORTS ASSOCIATION

North Sea Port
Together. Smarter.

SEGUCE TOGO

SEGUCE RDC

LE HAVRE port
HAROPA

portall
TRANSPARENCY ALL THE WAY

GUICHET UNIQUE DU COMMERCE EXTERIEUR
COTE D'IVOIRE

NIGERIAN PORTS AUTHORITY

PORT OF NEOM

CEI.BA

وزارة المواصلات والاتصالات
Ministry of Transportation and Telecommunications

Sustainability
–
do we all understand the same ?

Sustainability – definition

DEFINITION:

Sustainability is the ability to maintain or support economic, environmental, or social processes over time without depleting natural resources.

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Sustainability – definition

So, sustainability is more than only talking about climate, but it talks about preserving the 3 pillars at the same time :

- **Environment**
- **Economy**
- **Society**

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Economic Sustainability

"Economic sustainability refers to **a company's ability to continue its operations over a long-term horizon**.
In order to be economically sustainable, a company must be able to ensure that it will have **adequate resources**, workers and consumers for its products **into the distant future**."

So – how to match these adequate resources with Ports' core business, delivering smooth & efficient port operations ?

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Sustainability in Ports – a global challenge

Port ecosystems are on **a dual pressure** when it comes to sustainability :

- **Environmental** – reduce emissions, align with the SDGs and IMO/UN sustainability targets
- **Operational** – stay competitive, resilient and efficient in global trade

All this while operating in a **more complex compliancy** environment with increasing regulations, and in a world that is **ever more technologically evolving**

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Resilience & Sustainability in Ports – there is a solution !

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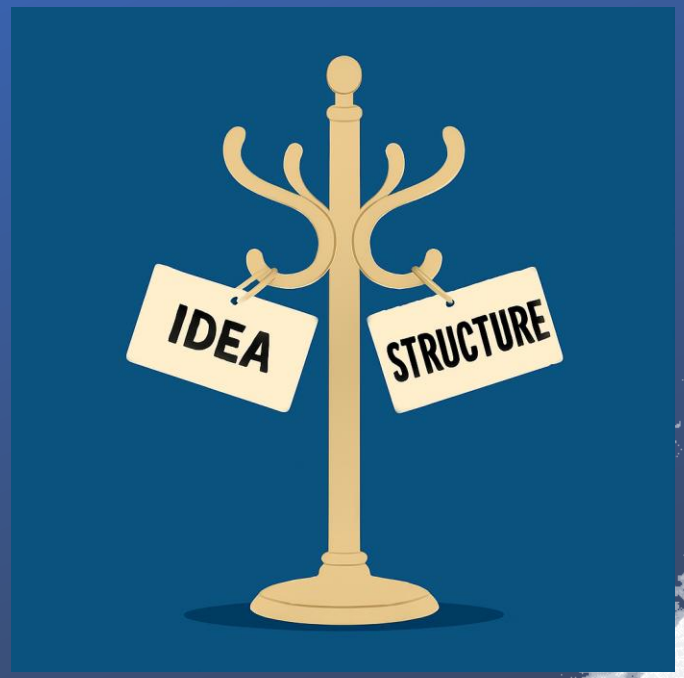
Some handholds…



Sustainable Digitalisation

≠

Making paper-based processes electronic

≡

(re)think & improve business
> optimizing your business processes

- Use a **holistic** approach (center = global trade)
- Leave the ‘vertical’ focus, instead look towards a ‘horizontal’ integration as an enabler of trade

>> needs **COLLABORATION** – digital & human

≡ COMMUNITY

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Collaboration

≡

Port Community Systems

Human & digital collaboration **implies** the use of **Port Community Systems**

to **foster** Sustainable & Global **Trade** !!

Multiple stakeholders **collaborating** by means of **digital services**, sharing real-time data, on a joint PCS-platform

will **optimize** your **port operations**

+

Technology will help you doing that

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PCS implementation – Considerations

- Don’t think ‘technology first’:
  a PCS is not an IT-project but a Change management project !
- Stakeholder awareness and ‘Community building’ is a time-consuming but necessary effort
- Technology comes at the end: proven solutions are there

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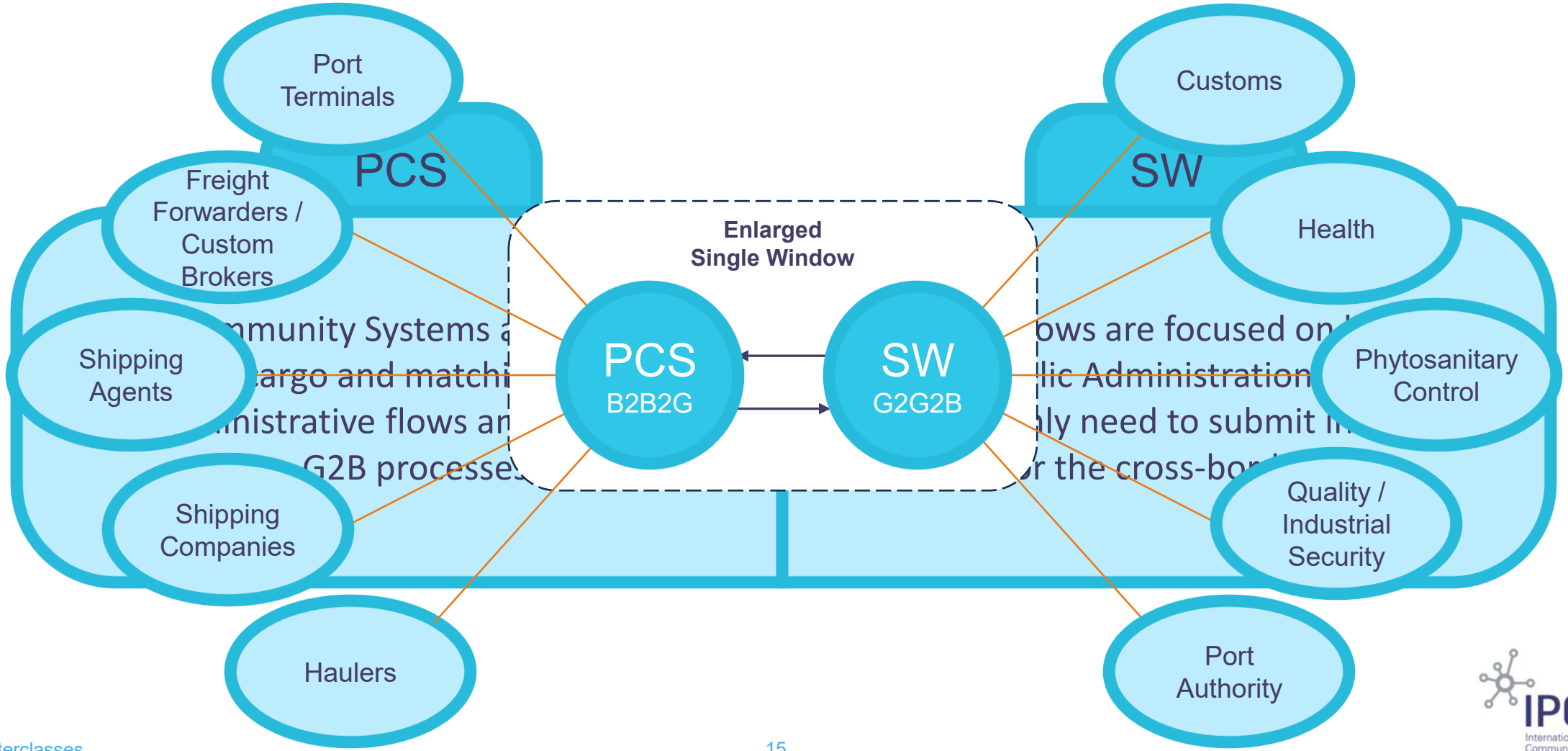
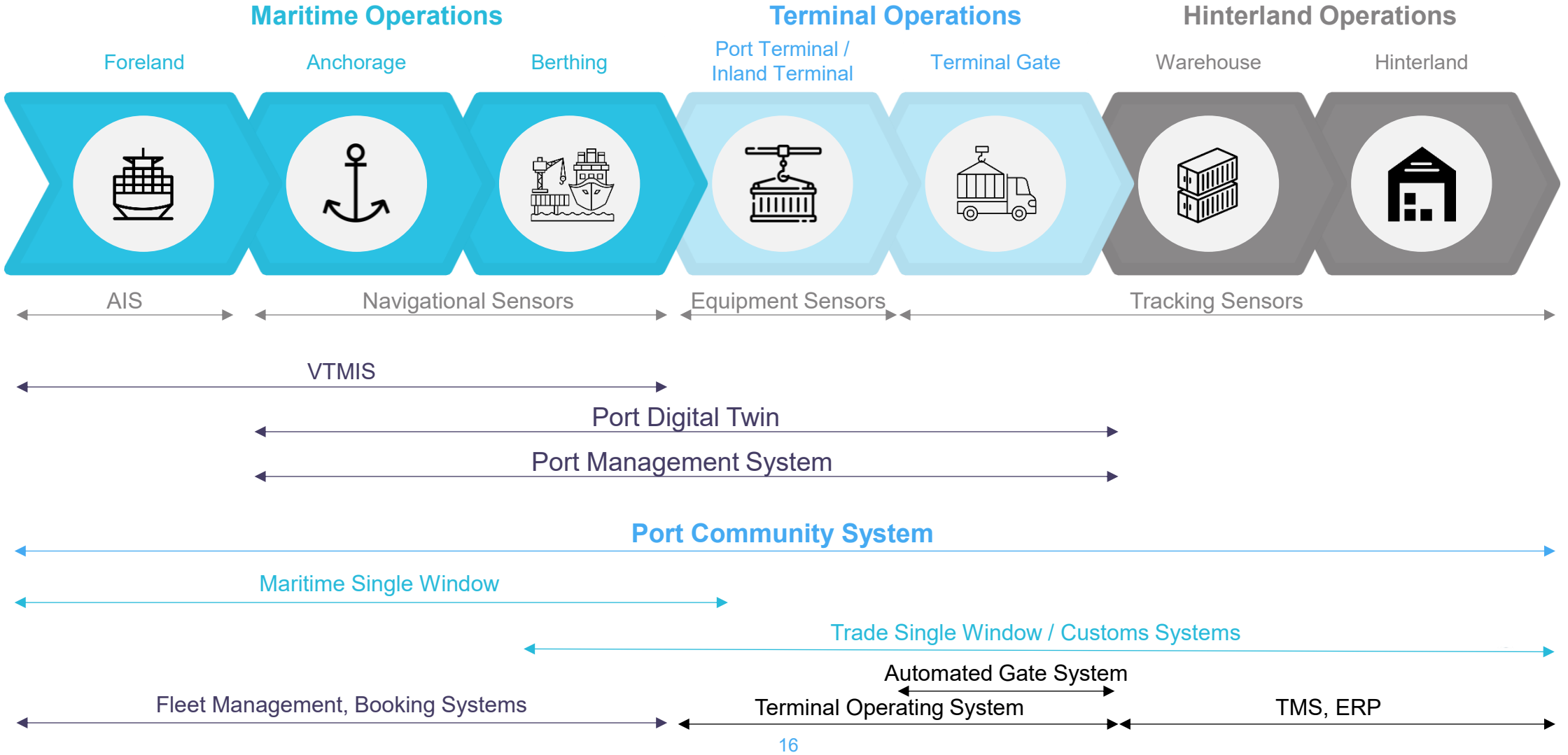
the PCS as a Single Window Environment

PCS FOCUS ON VOYAGE, CARGO AND INTERNAL FLOWS WHILST SW DUTIES INVOLVE DEALING WITH PUBLIC ADMINISTRATION



Port IT ecosystem: the relevance of interoperability

MAIN INFORMATION SYSTEMS IN A PORT MUST INTERACT BETWEEN THEM TO PROVIDE A HOLISTIC VIEW



Sustainable Port Management – Challenges & considerations

- **Cybersecurity** risks: more digital → more vulnerable
- **Interoperability**: fragmented systems can limit impact if not harmonized
- **Investment gap**: digital infrastructure requires upfront costs
- **Skills**: workforce must adapt to data-driven tools.

→ But these challenges are also **opportunities to innovate**.

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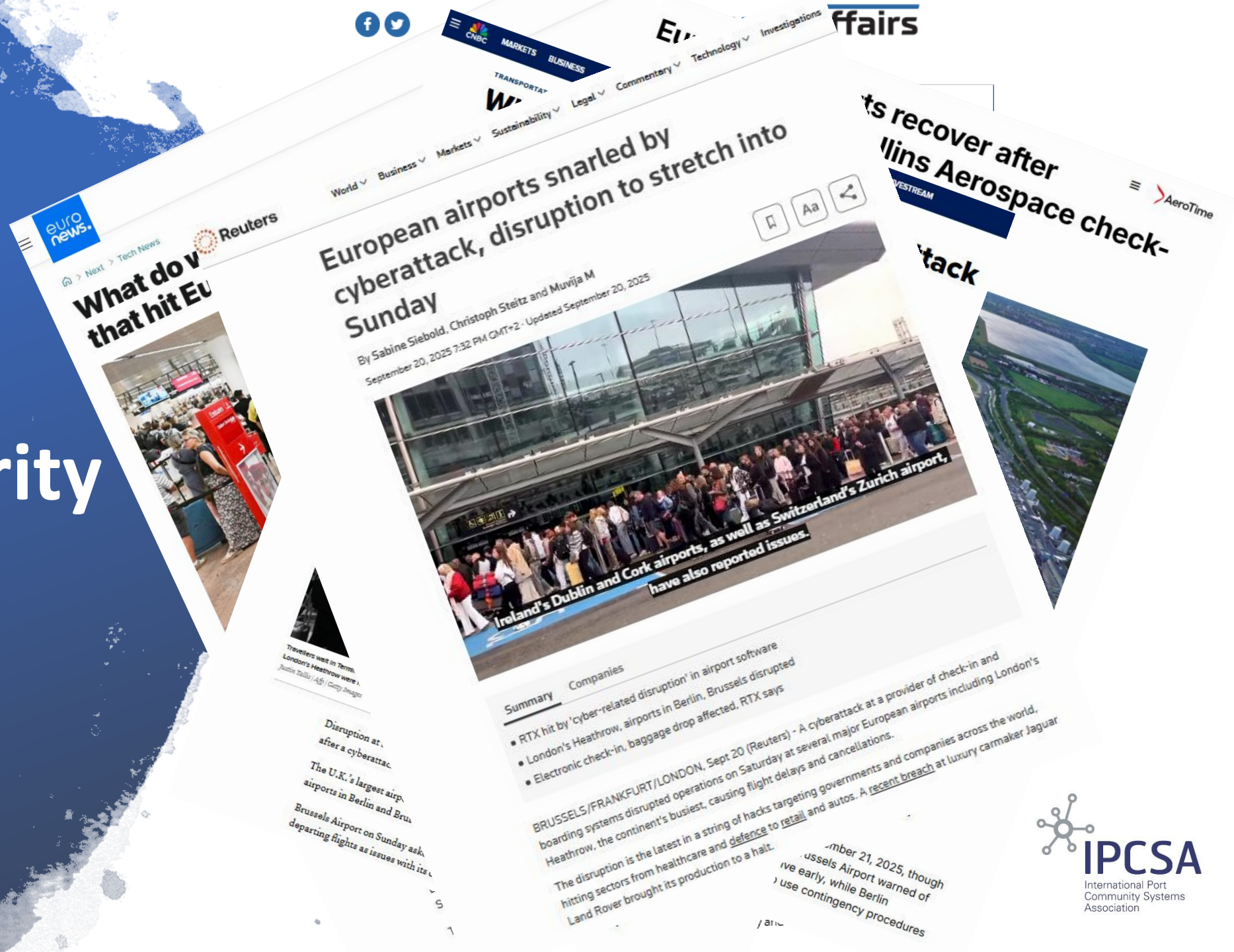
Cybersecurity



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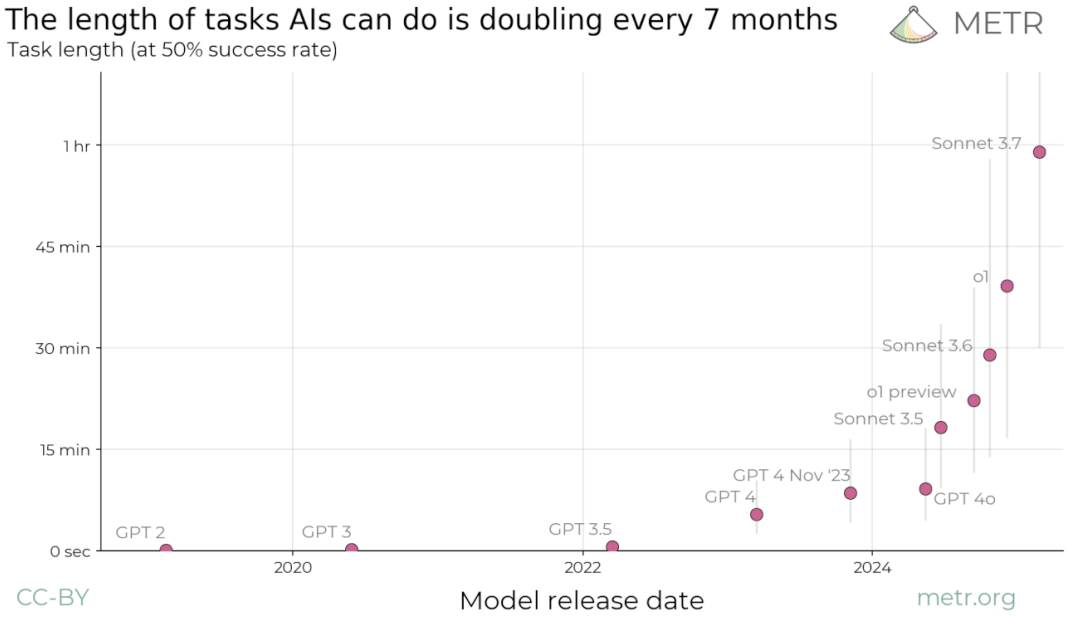
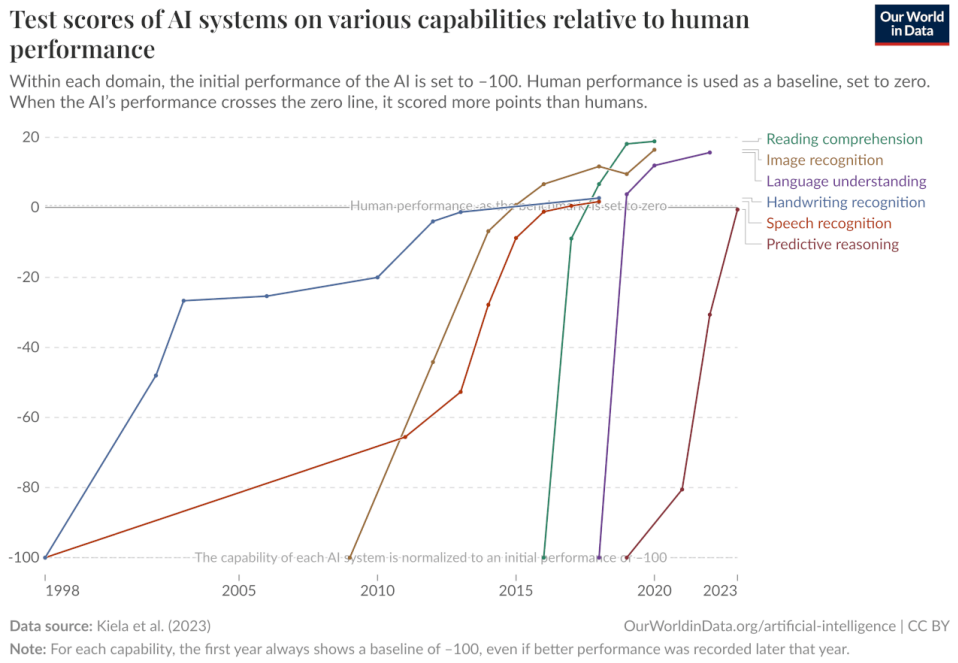
Artificial Intelligence





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Don’t forget…

“In order to stay the same, you need to change !”

[attributed to Willy Brandt, former Chancellor of West-Germany from 1969-1974]

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THANK YOU

Please send e-mails or questions you may have

as we always are welcome for discussion and collaboration

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