



## **Poznańskie Centrum Superkomputerowo-Sieciowe**

61-139 Poznań  
ul. Jana Pawła II 10  
tel: (+48 61) 858-20-01  
fax: (+48 61) 852-59-54  
office@man.poznan.pl  
www.pcss.pl

Raimundas Tuminauskas

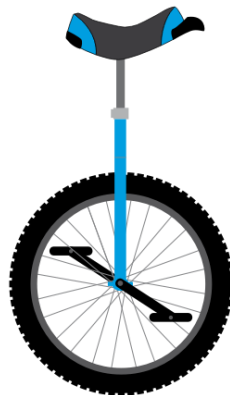
## ***Challenges for NRENs***

EAPEC 2022, Baku  
29 09 2022

# Sustainability

*Sustainability* - the ability to be maintained at a certain rate or level.

Capabilities and services  
meeting the demands of  
the R&E community



Resources adequate to  
implement the required  
capabilities

**NRENs and GÉANT – 30+ years of sustainable advance of R&E networking**

*"Sustainability encompasses all key aspects that ensure an NREN's ability to continuously ensure positive impact on society in terms of creating a thriving culture, providing value to users and the community, securing funding and addressing the challenges of organisational growth."*

## Changing landscape of requirements

---

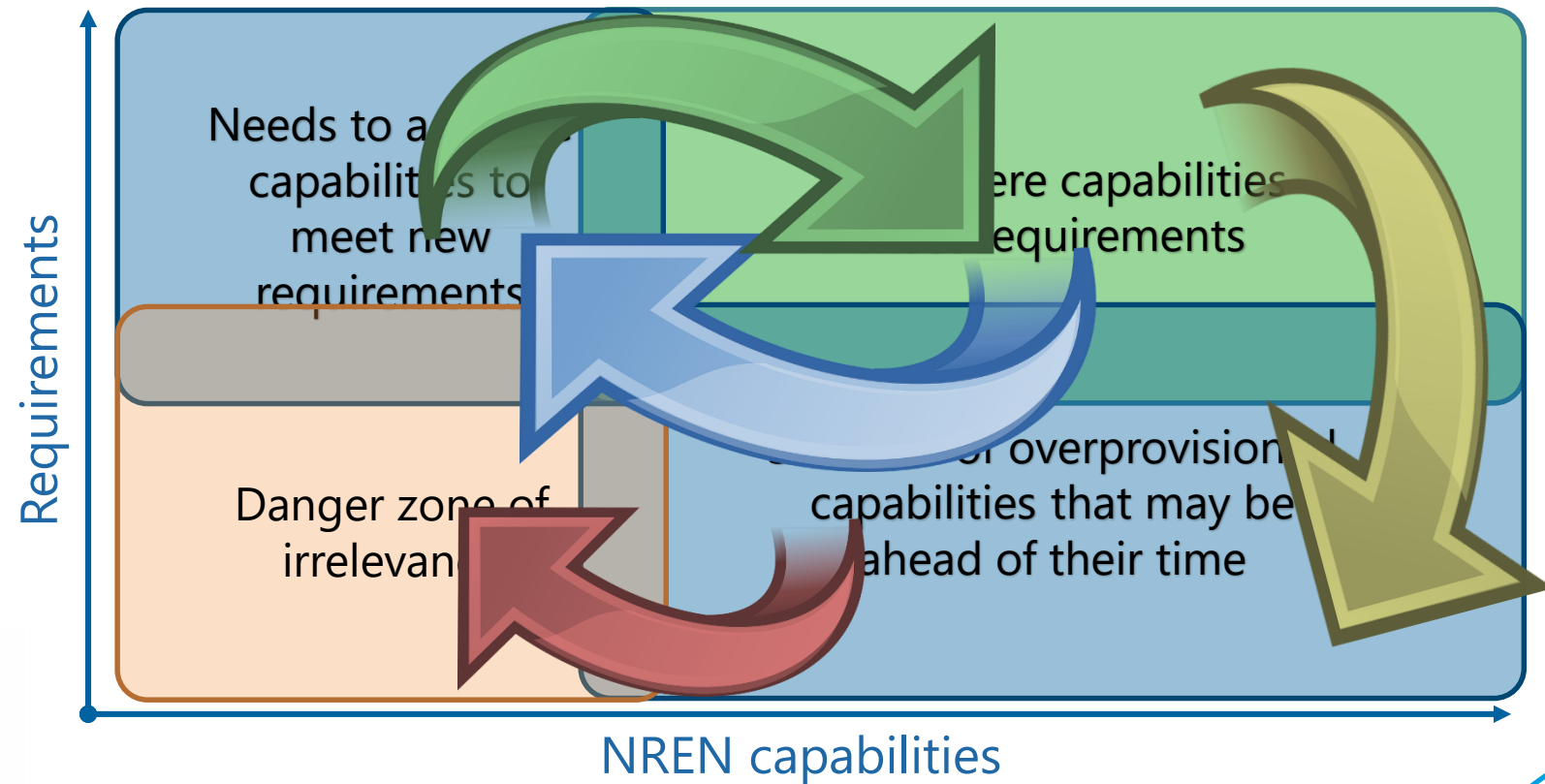
- **Likely societal evolutions** - NRENs are becoming mission critical and will evolve significantly as they get involved on the national level.
- **Consolidation of functions and services** – retaining the community, direction, purpose, and leadership.
- **Hyperconnectivity** – 1TB and beyond is required for modern day R&E, infrastructures for quantum, 5G.
- **Change in structure between national and international** – more decentralized.
- **Service provision for global/European priorities:** Security, Health, Climate, Energy, Food requires services to more diverse set of actors.

## Changing internal landscape of NRENs

---

- **Diversity** - NRENs are becoming mission critical and will evolve significantly as they get involved on the national level.
- **Service portfolio** – the connectivity becomes commodity.
- **Proportion of NREN business** – other priorities may govern the consolidated entities.
- **Succession planning** – ensuring the education and upbringing of dedicated community members.
- **Recruitment** – ensuring motivational package in the highly competitive market.

## Magic quadrant – evaluation framework





## **Poznań Supercomputing And Networking Center**

61-139 Poznań  
ul. Jana Pawła II 10  
tel: (+48 61) 858-20-01  
fax: (+48 61) 852-59-54  
office@man.poznan.pl  
www.pcass.pl

