



# Research Security as a critical factor for Knowledge Valorisation – the Synergy Framework

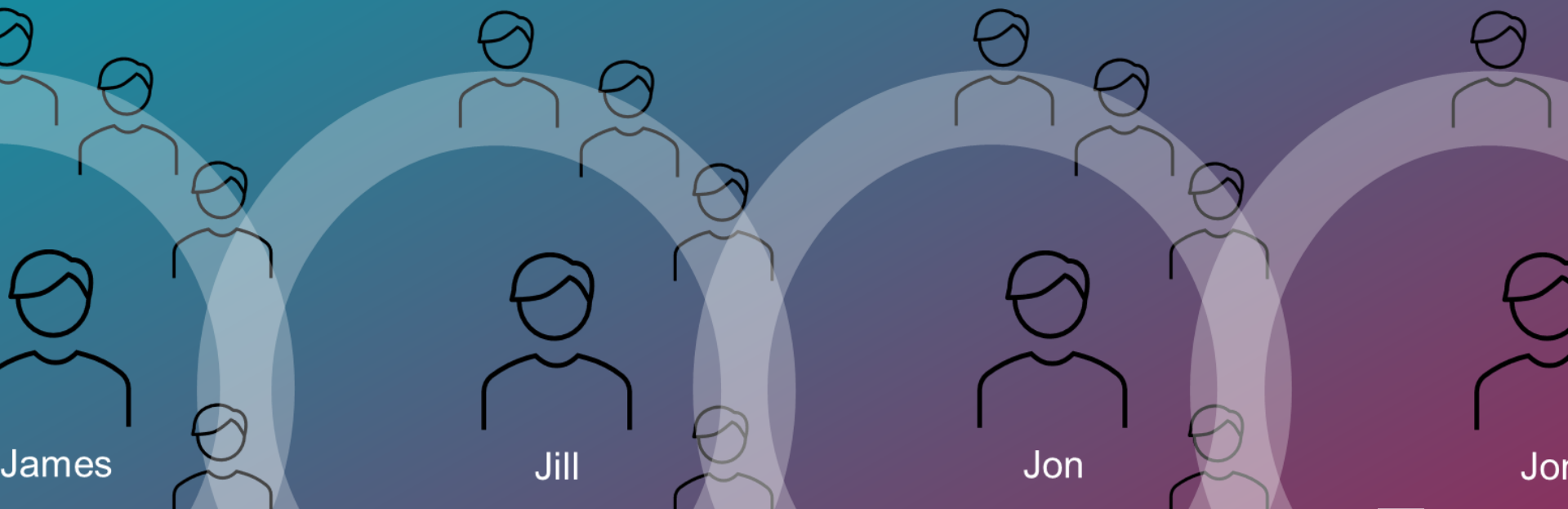
Prof. Dr. Julia Priess Buchheit

# IP4OS

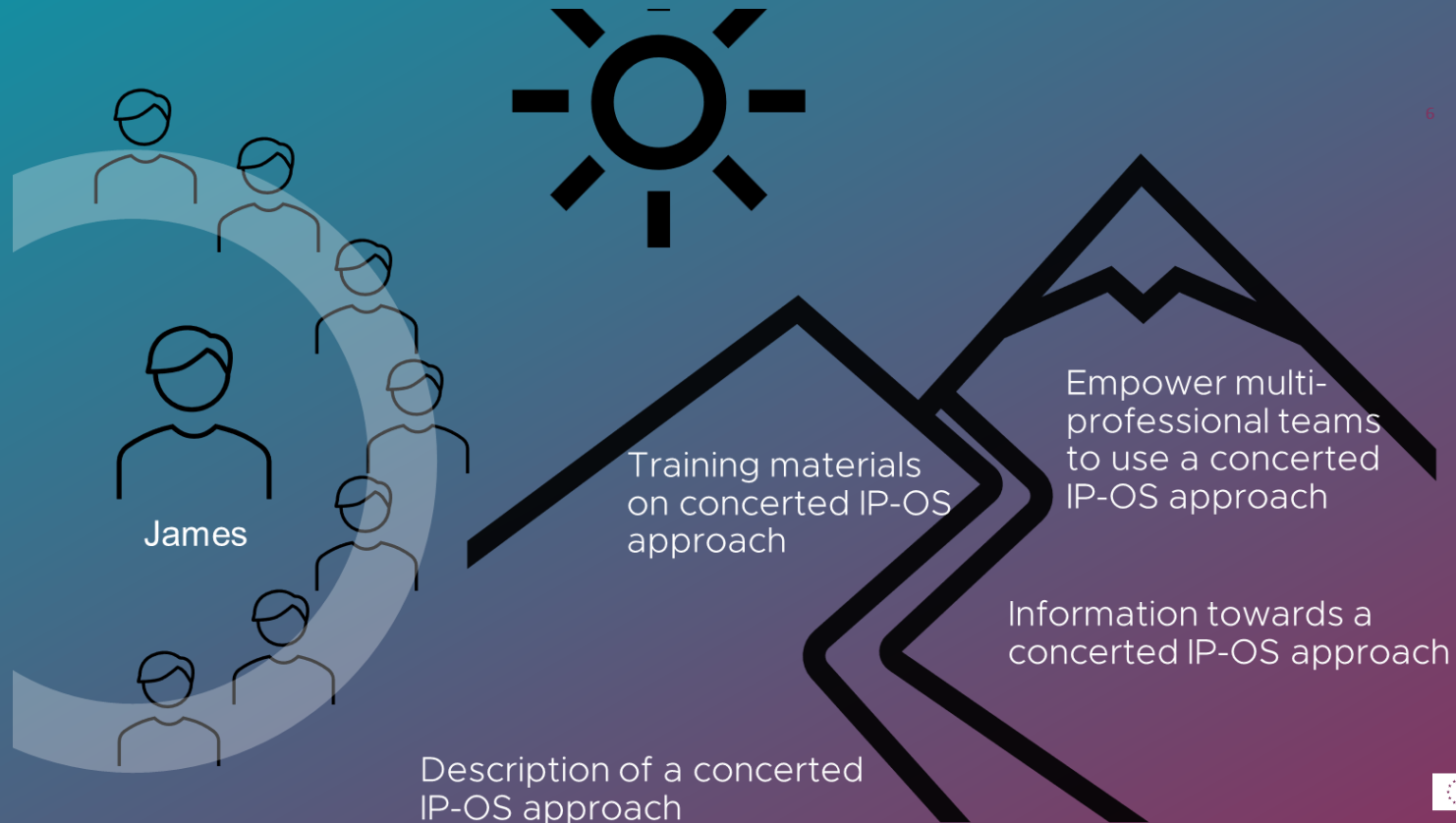
Unpacking the possibilities of  
Intellectual Properties for Open  
Science

# IP4OS Aim

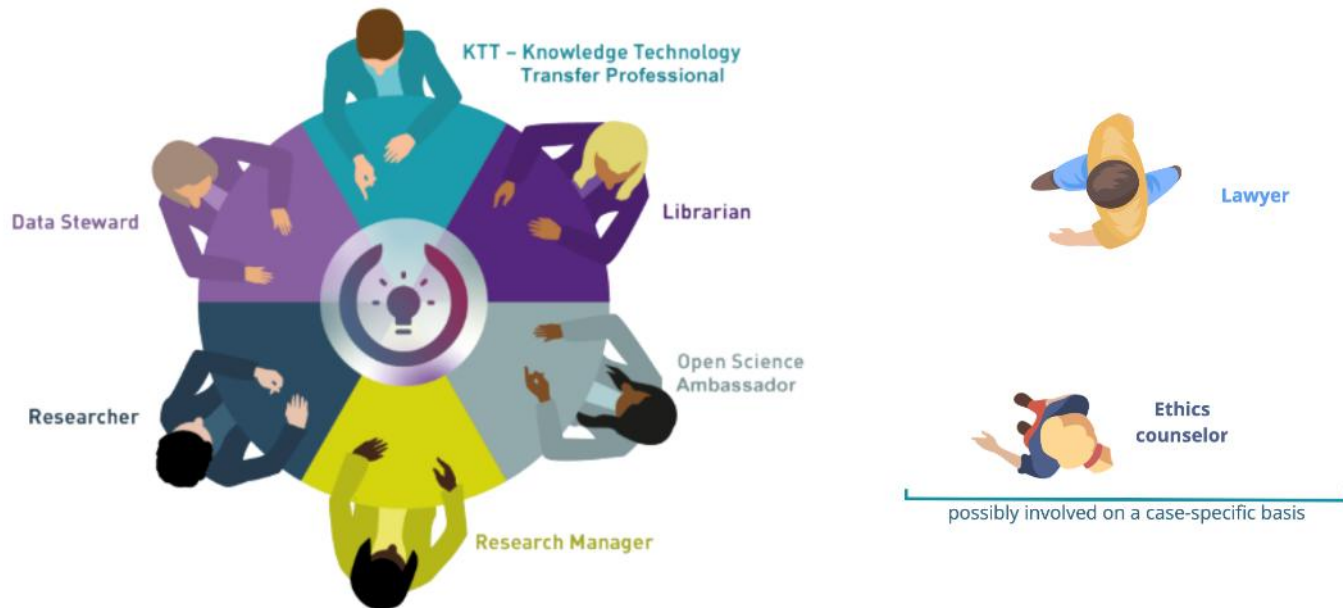
The overall aim of IP4OS is to empower multi-professionals and their research organisations with awareness, knowledge, skills, and advocacy to effectively valorise FAIR research outputs in the European Research Area.



# IP4OS is a support Roadmap for researchers<sup>4</sup> over the next two years



# PERSONAS of multi-professional teams



RPO-specific; expertise/persona can be combined in team members

## Research Manager

- Signs European Union–Asia quantum-computing Memorandum of Understanding without rights-retention or dual-use export-control checks
- Partner in a sanctions-listed jurisdiction patents chip design and blocks open-access deposit
- University now faces funder non-compliance and potential sanctions-violation exposure

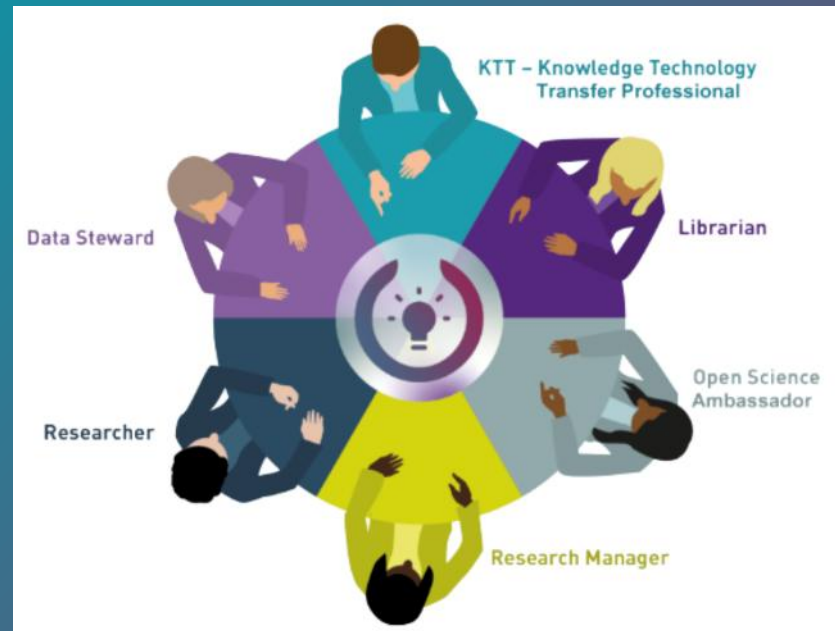
## Open Science and Intellectual Property Interplay



## Research Librarian

- Packages Creative Commons Attribution licence satellite data together with “research-use-only” defence images for external requests
- State-linked think-tank strips restrictions, enabling hostile intelligence service to re-use embargoed data
- Licence-stack incompatibility becomes a vector for geopolitical misuse; due-diligence process missing

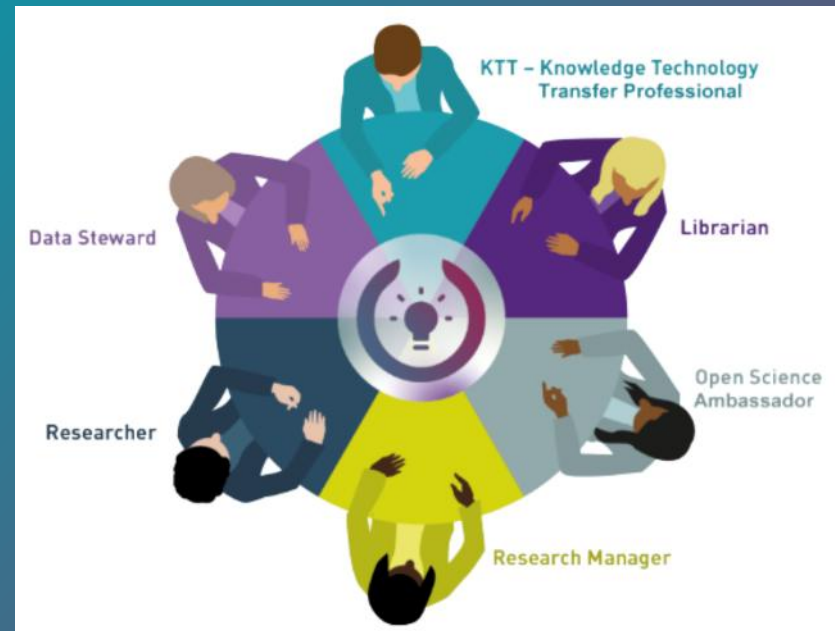
## Open Science and Intellectual Property Interplay



## Researcher

- Posts preprint on specific radar gate design to comply with open-science norms
- Foreign-state corporation files broad patent, then cites export controls to deny access to the inventor
- Institution loses freedom-to-operate in EU critical-technology area; example of intellectual property capture risk

## Open Science and Intellectual Property Interplay





## Data Steward

- Replicates gene editing screen data to mirror node in non-GDPR country negotiating compulsory tech-transfer
- Mirror drops CC-BY licence, pay-walls dataset, grants local firms exclusive early access
- Breach of institutional data processing agreement and European Union research-security guidance on cross-border data flows

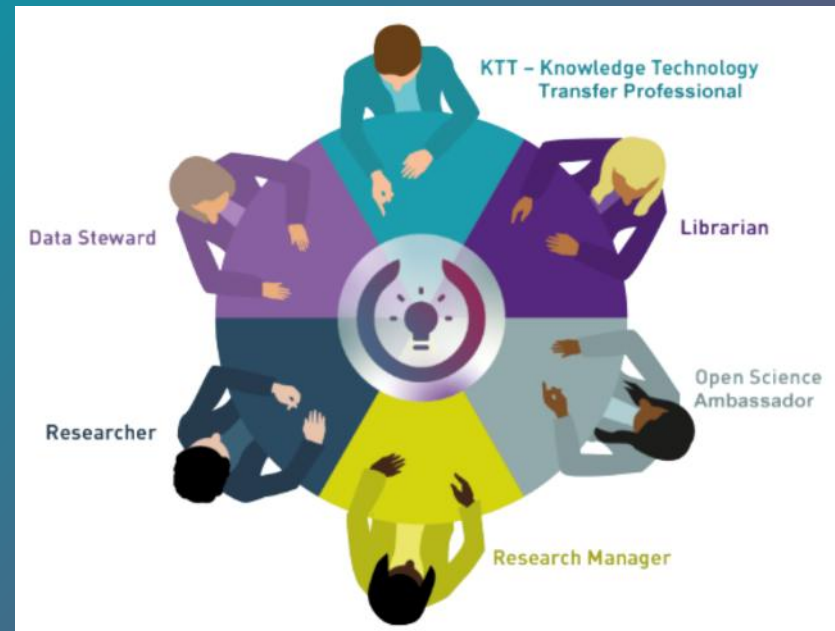
## Open Science and Intellectual Property Interplay



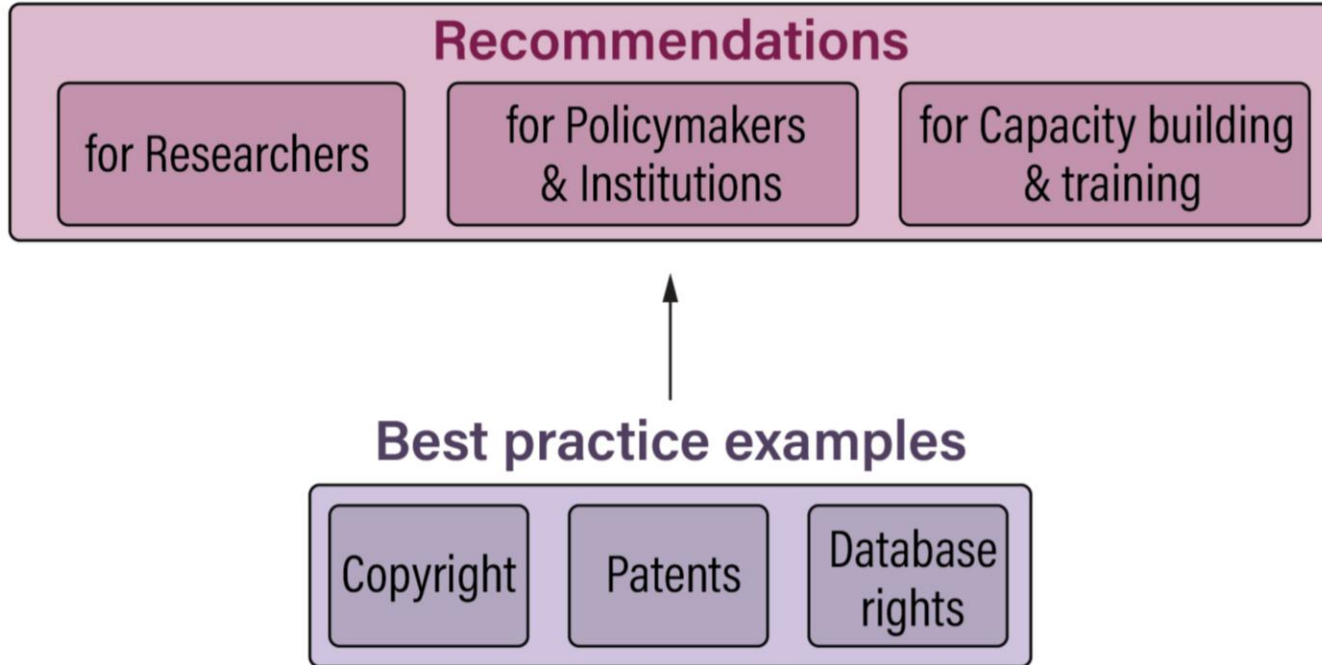
## Knoweldge Transfer Expert

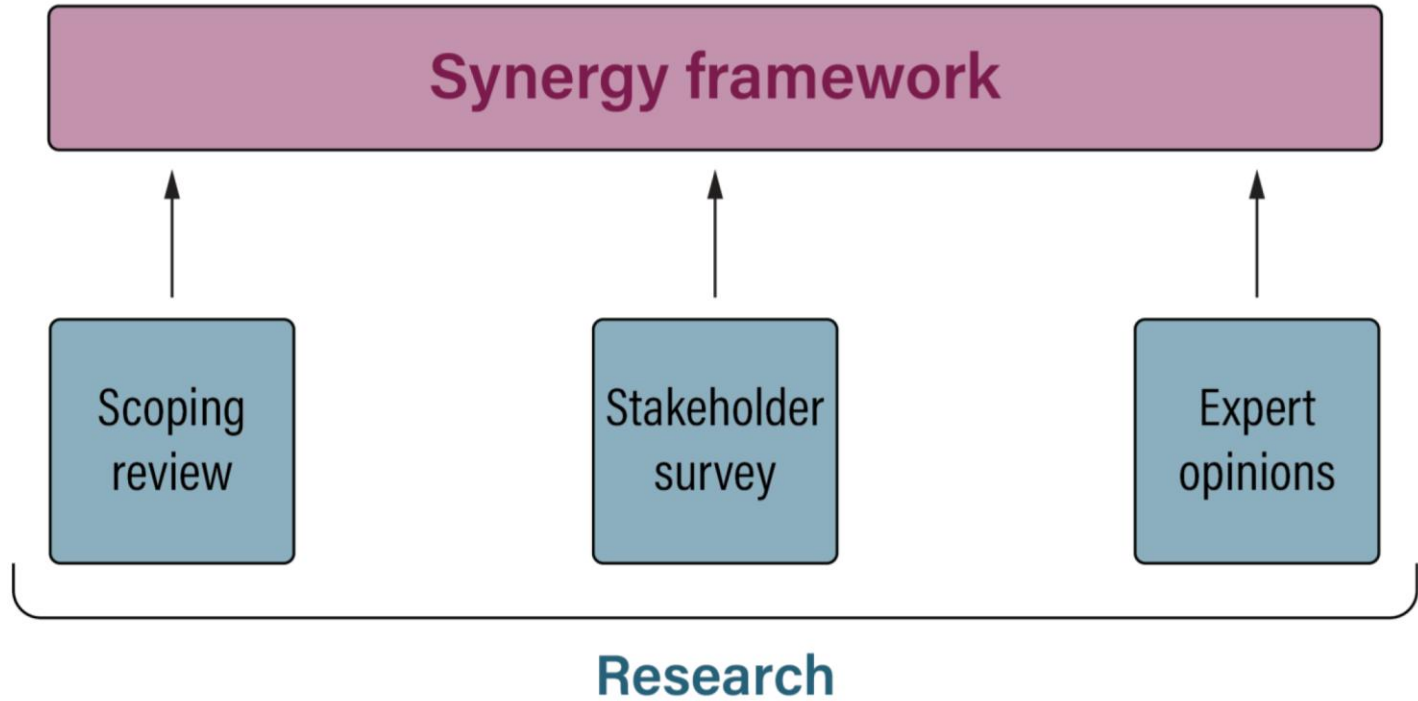
- Approves material transfer agreement with overseas defence contractor; hidden “security-review” clause lets foreign government veto outputs
- After team uploads AI-ready model to GitHub, takedown demand cites export-control penalties
- Publication frozen; demonstrates need for robust reach-through and partner-screening clauses

## Open Science and Intellectual Property Interplay



# Synergy framework





# IP4@S



SCAN ME



Funded by  
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Event Name

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# Section slide

# Click to edit Master title style

- Click to edit Master text styles
  - Second level
    - Third level
      - Fourth level
      - Fifth level





# THANK YOU

Call to action sentence  
(example: Follow us, Contact us, etc.)