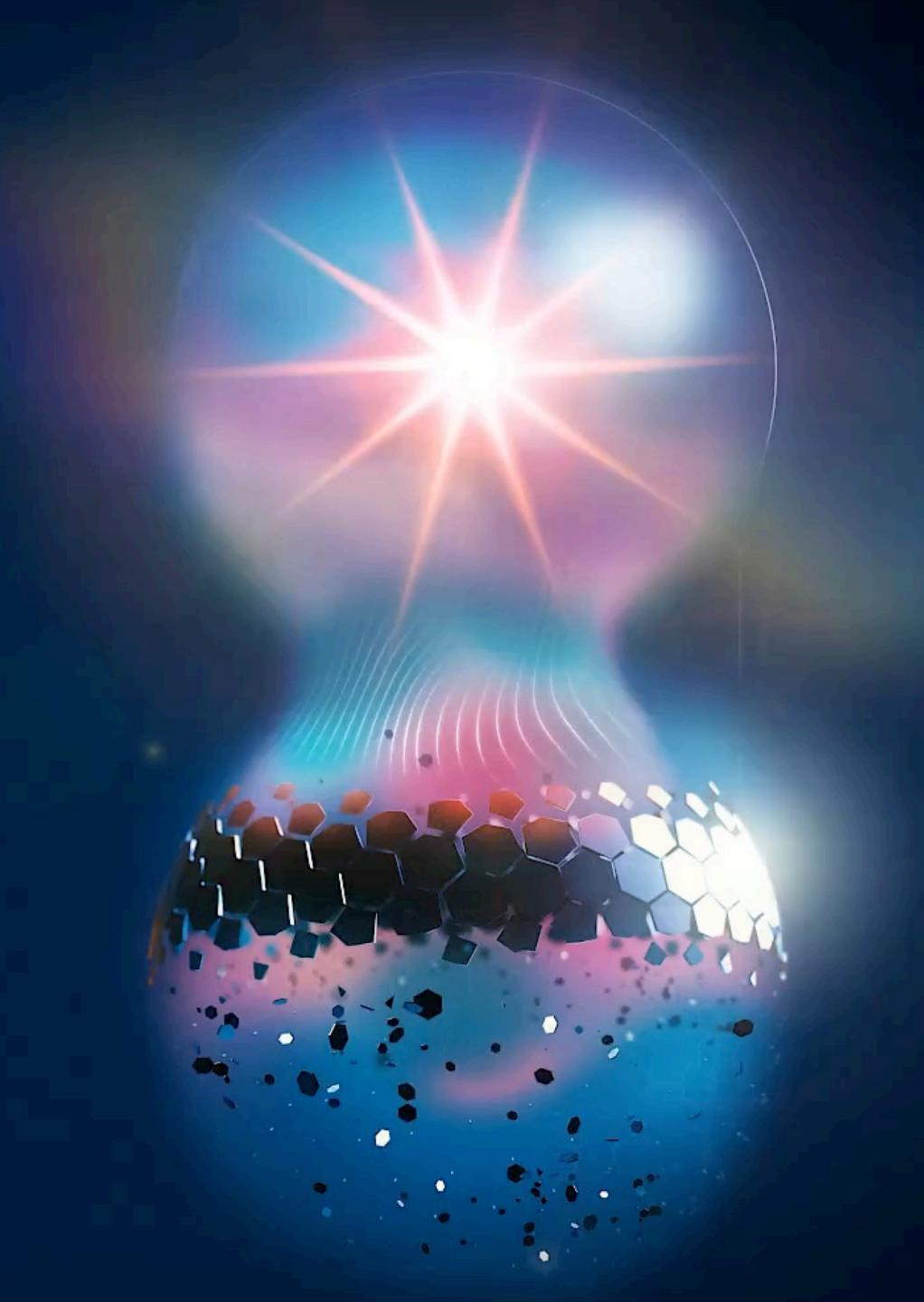
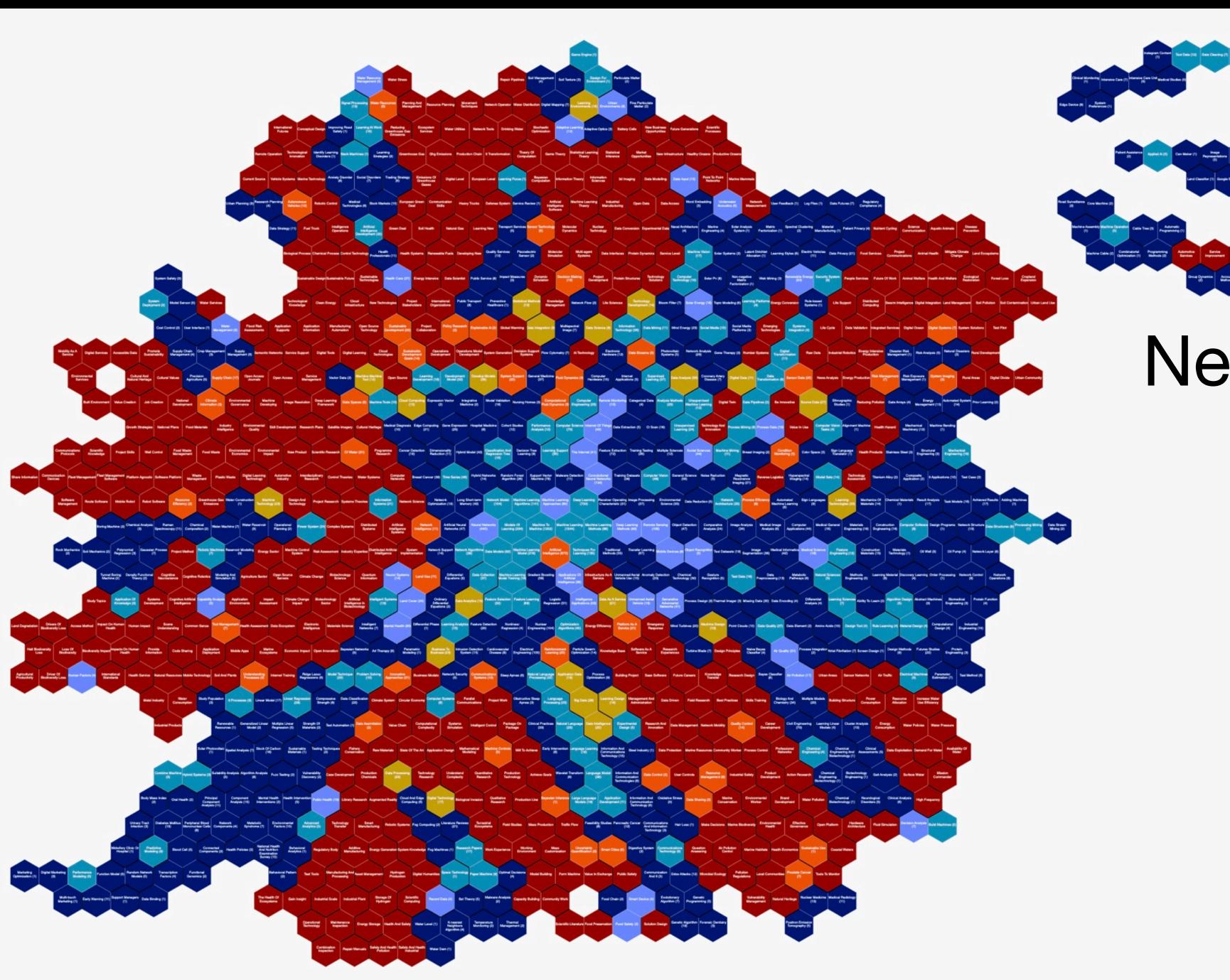
Dual-Use Skills Securing Talent for EDTs*

*emerging and disruptive technologies

Harri Ketamo Founder, Headai

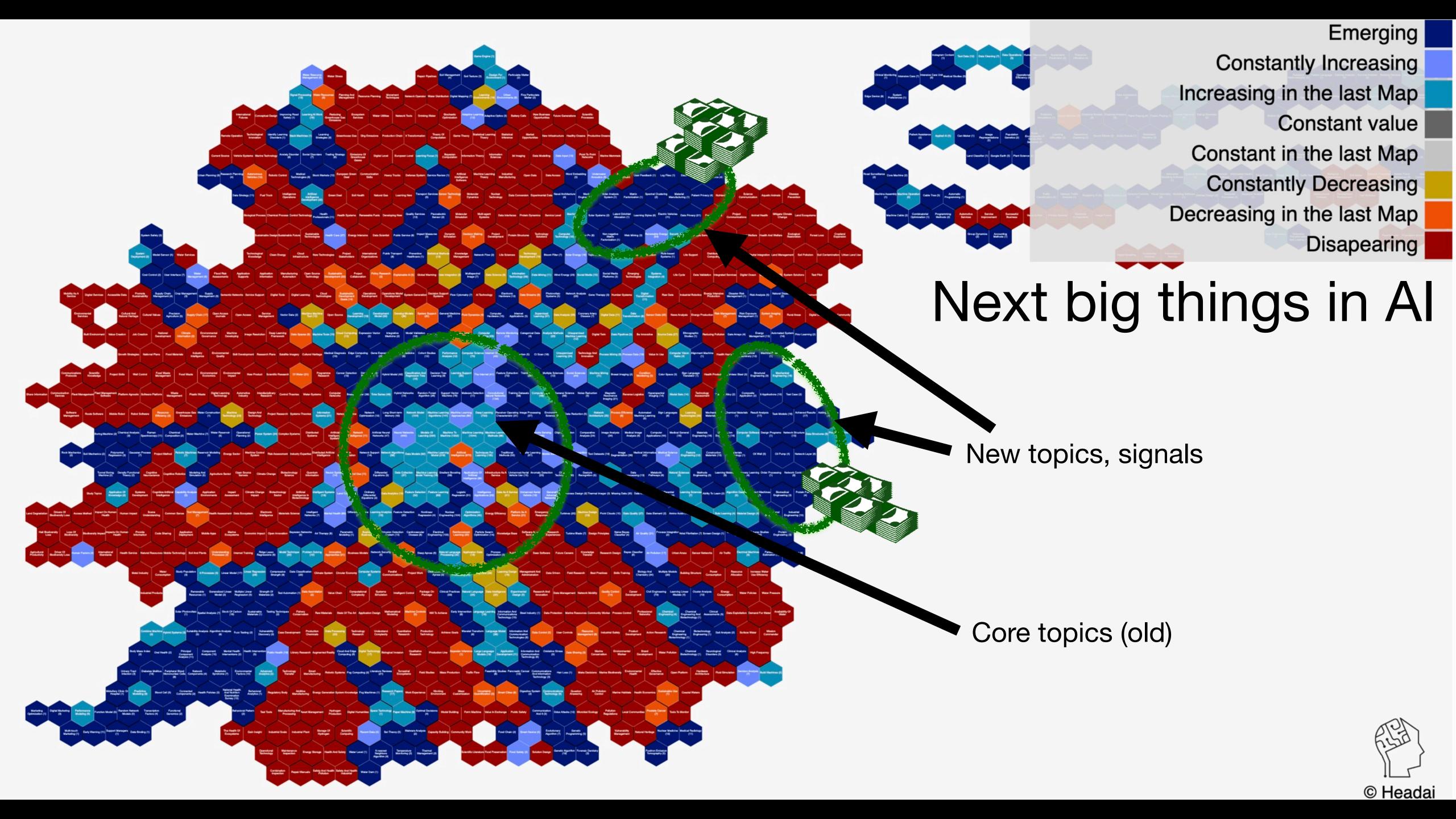


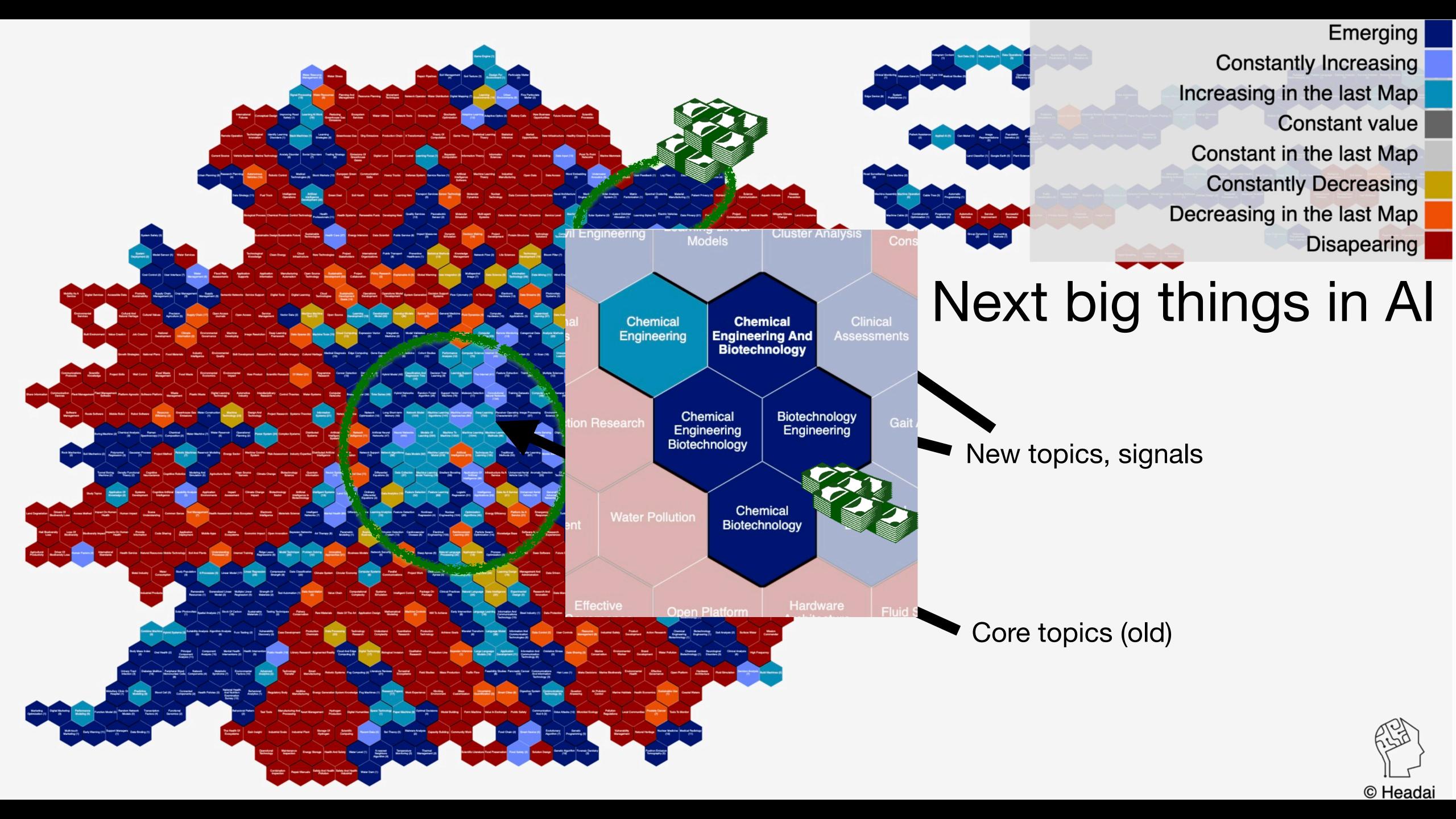


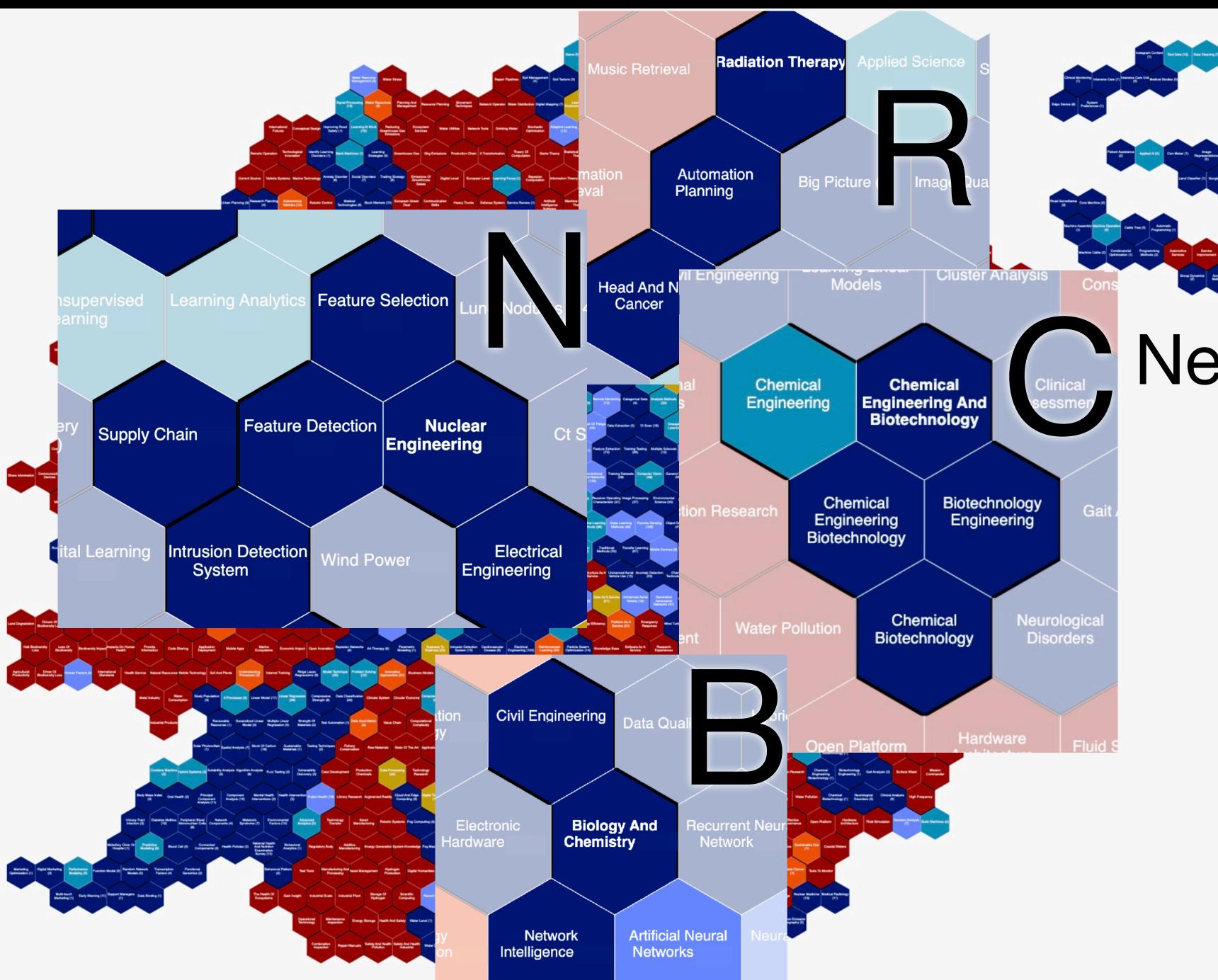
Constantly Increasing
Increasing in the last Map
Constant value
Constant in the last Map
Constantly Decreasing
Decreasing in the last Map
Disapearing

Next big things in Al









Constantly Increasing
Increasing in the last Map
Constant value
Constant in the last Map
Constantly Decreasing
Decreasing in the last Map
Disapearing

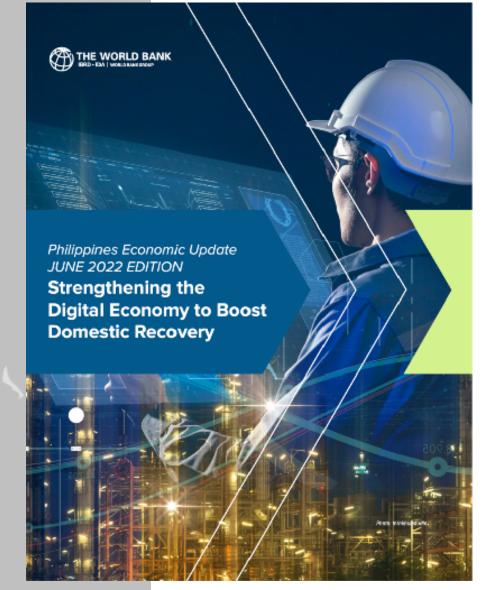
Next big things in Al

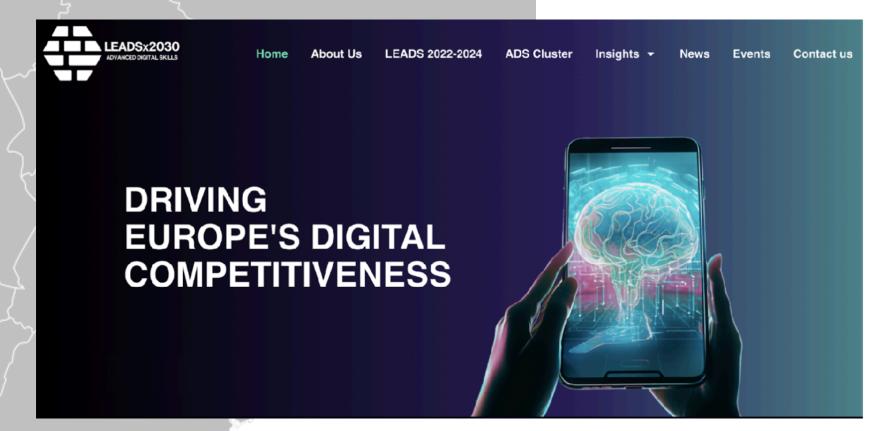


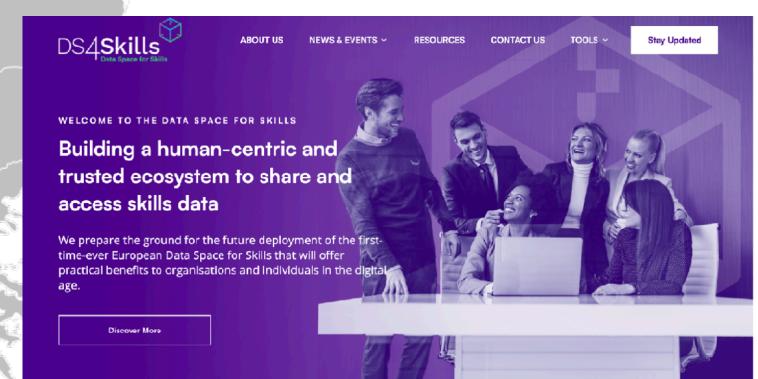


SEPTEMBER 2024







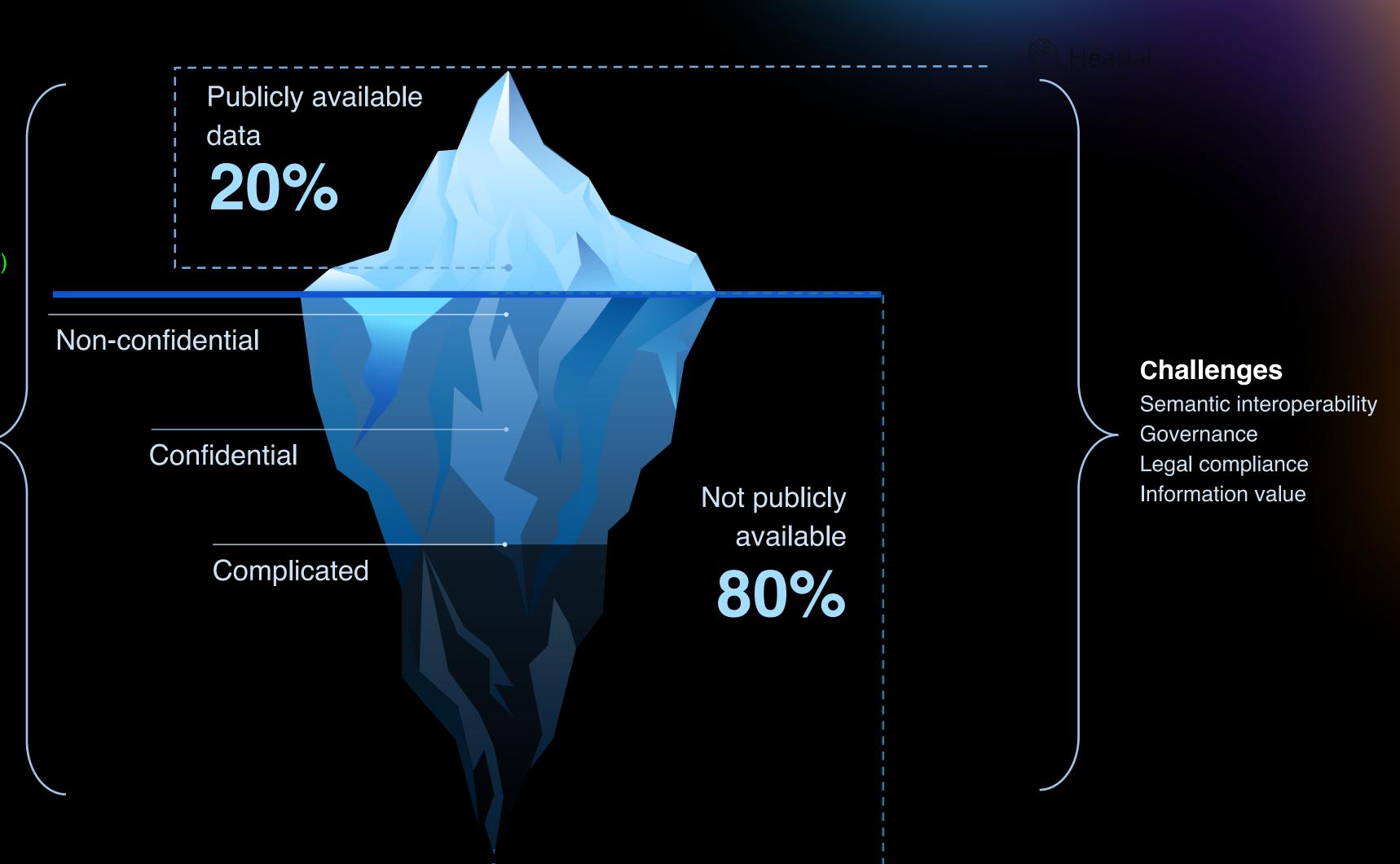






Supply and Demand

- √ Job ads
- ✓ Research papers
- Investments
- News
- ✓ Public labor market reports
- ✓ Policy collections (eg Green Deal)
- Patents
- ✓ Curriculum & courses & training
- ▼ Personal skills data
- *Corporate workforce analytics
- *Learning platforms
- ☐ Illegal market places
- □ Deep web
- □ Dark web
- □ Tor
- □ **I**2P



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Methods

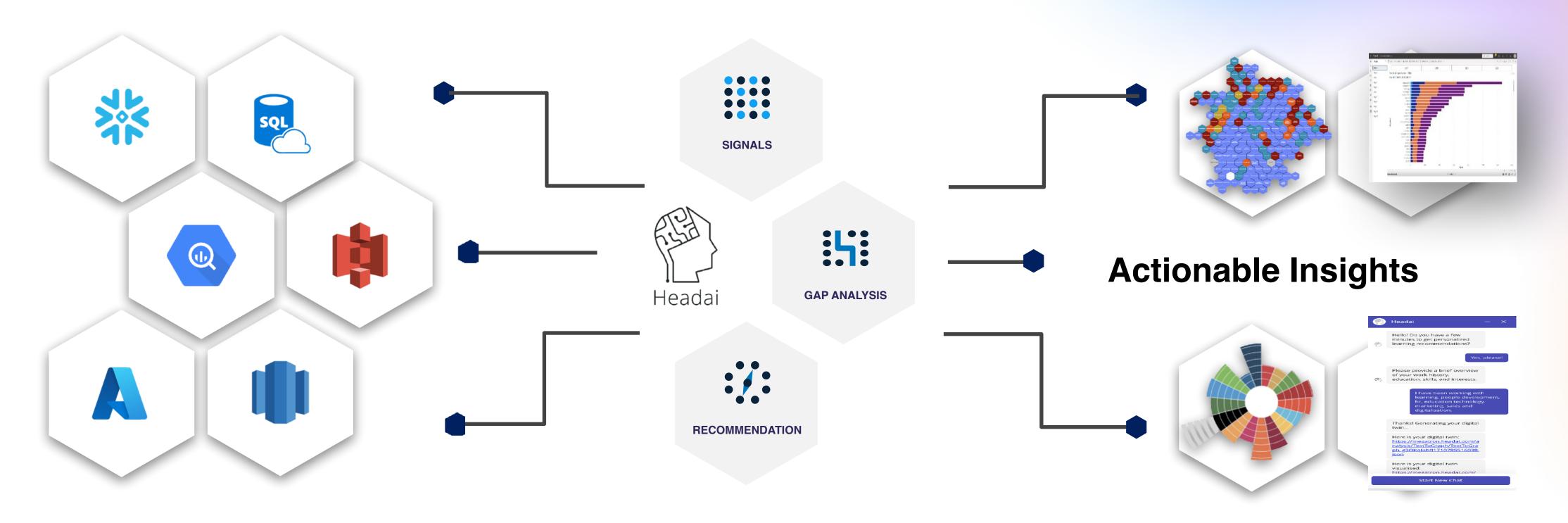


Data Meets Direction





Data Meets Direction



Data sources
Any unstructured
text data

Cognitive, Predictive Al Advanced qualitative analytics

Data visualisations, GenAl reports. RAG, Chatbots etc.





<u>Personal customers</u> > <u>Professional information</u> > Information security expert

Information security expert

Professions

Published 18.4.2024

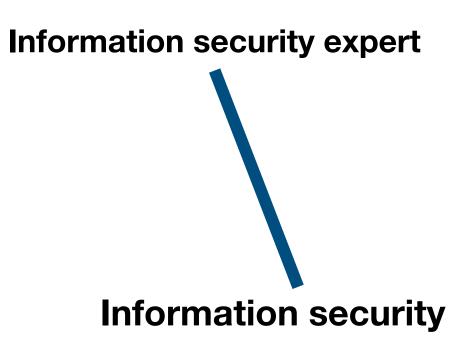
An information security expert specialises in information security issues. Their job is to protect data, information systems, networks and other digital resources from data breaches, malware and other information security breaches. In addition to competence related to information security, the profession requires training and interaction skills.

Jobs	~
Requirements	~
Education	~
Salary	~

Professions

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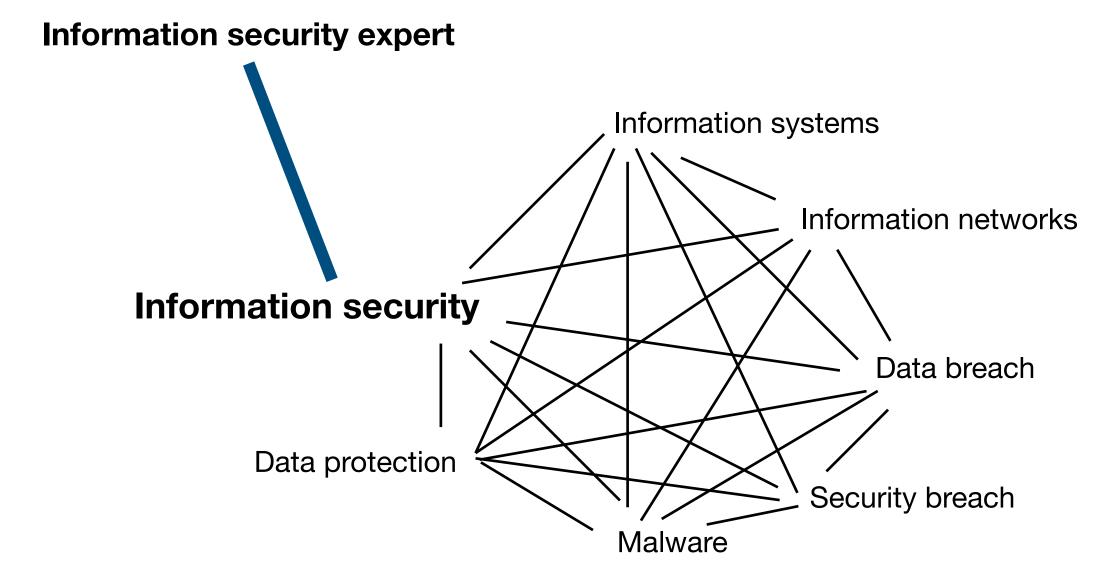


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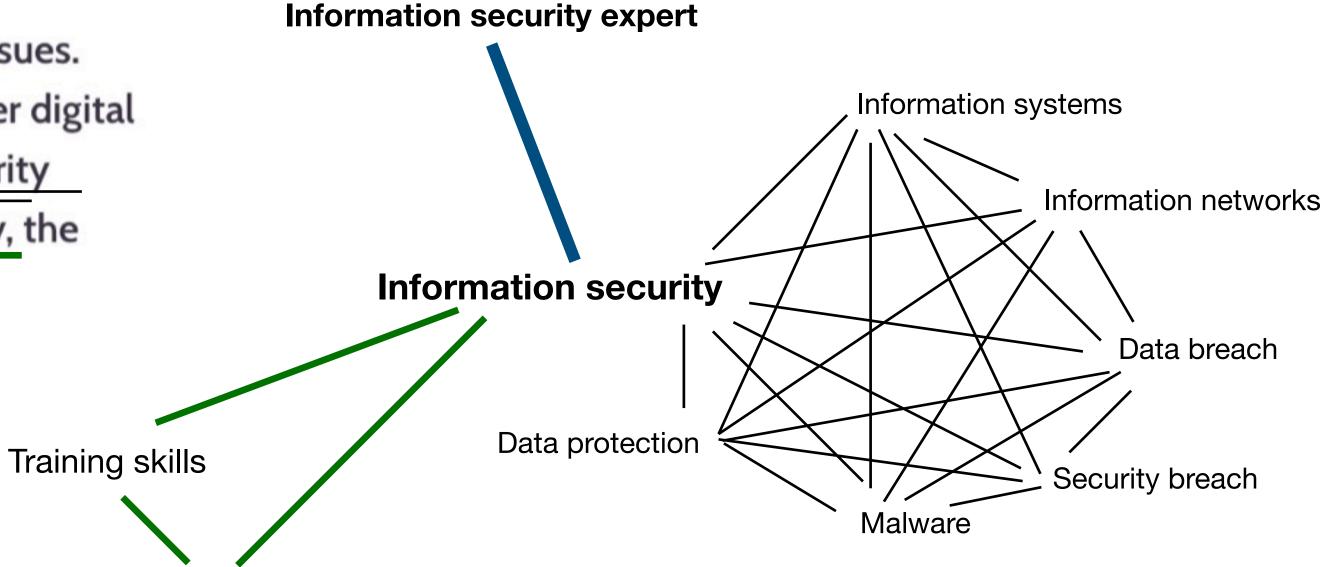


Professions

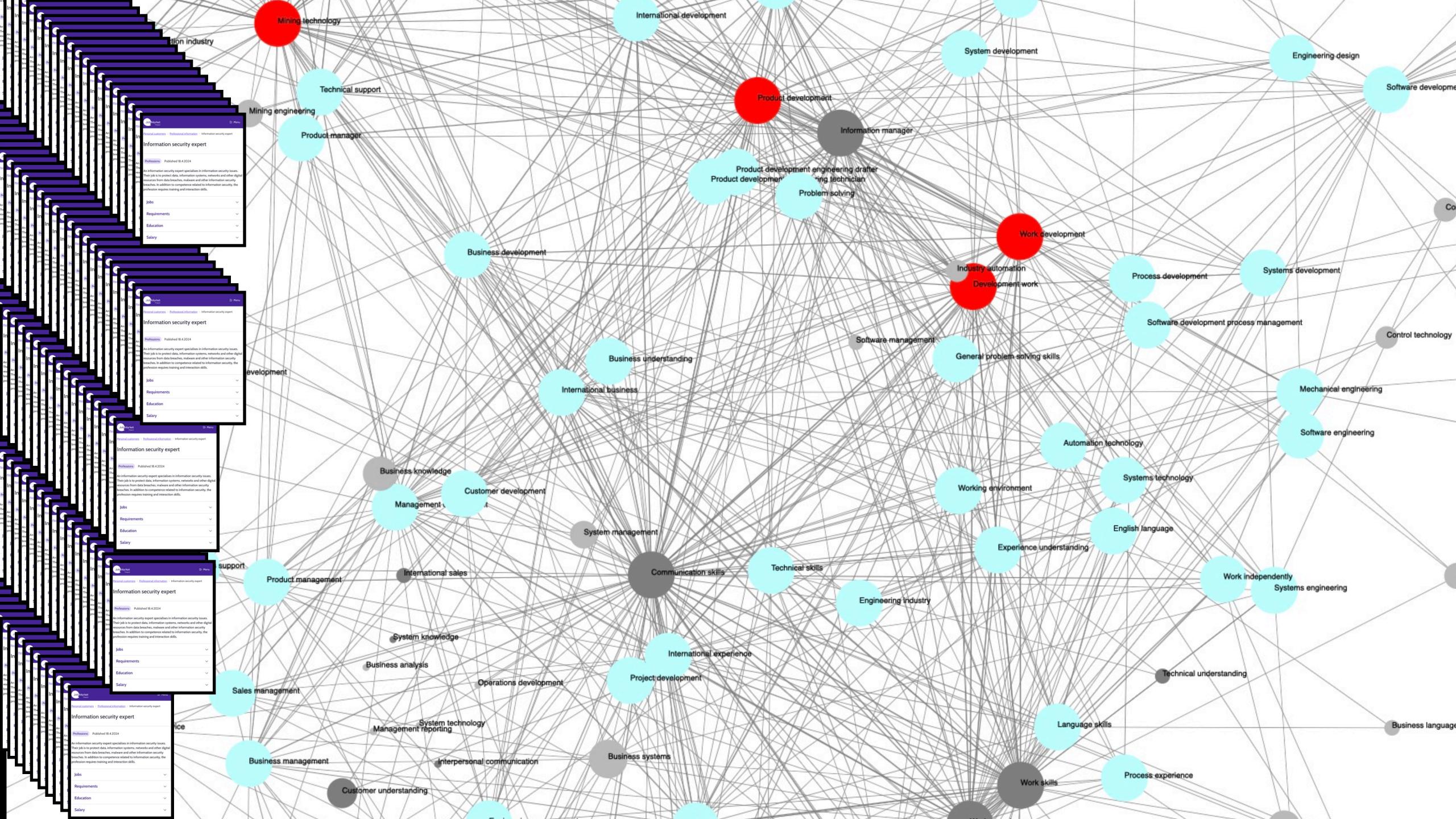
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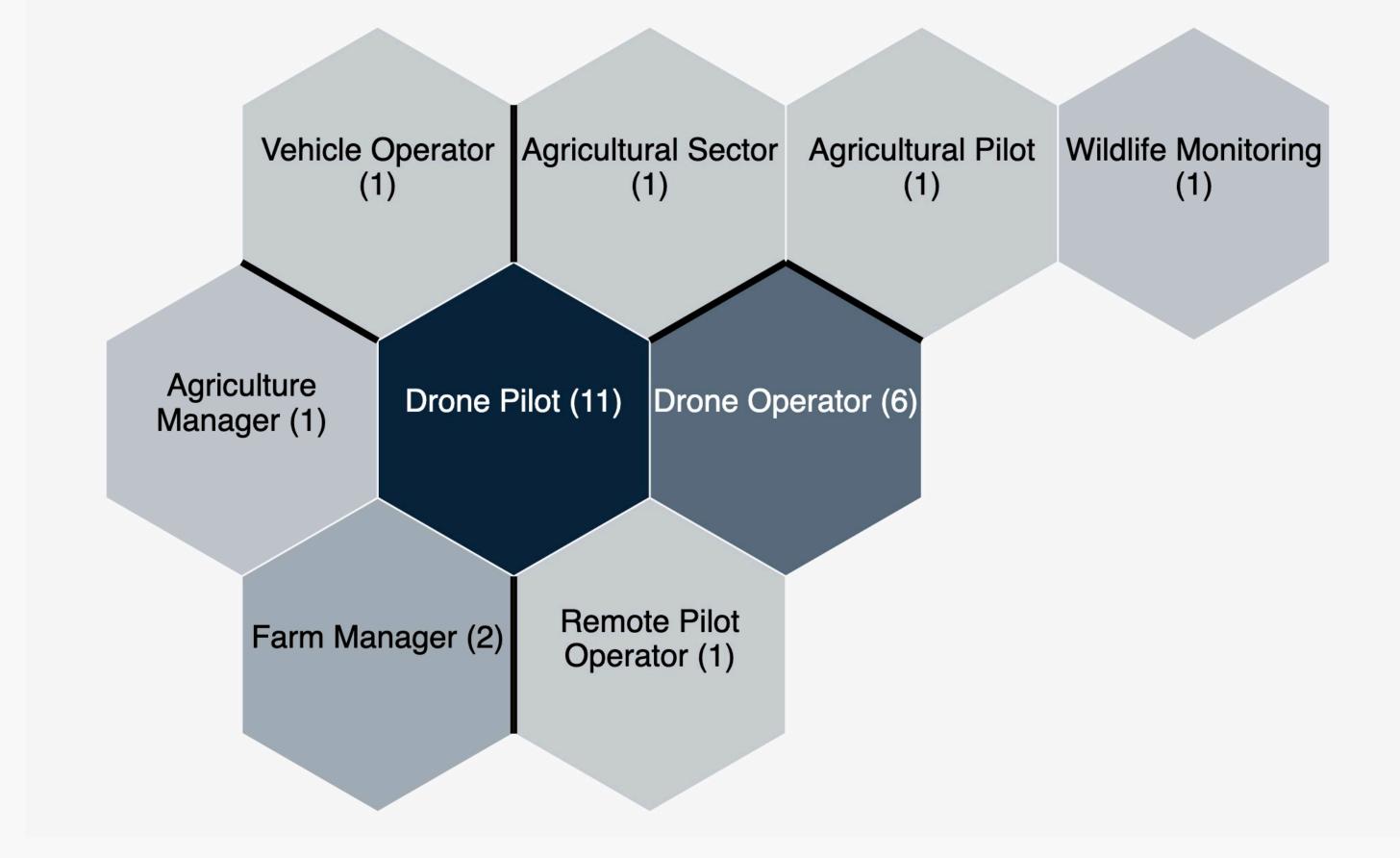
Communication skills



Cyber security Professions Published 18.4.2024 **Information security expert** An information security expert specialises in information security issues. Information systems Their job is to protect data, information systems, networks and other digital resources from data breaches, malware and other information security Information networks breaches. In addition to competence related to information security, the **Information security** profession requires training and interaction skills. Data breach Data protection Training skills Security breach Malware Communication skills Pedagogy **GDPR Vulnerability Exploitation** Leadership

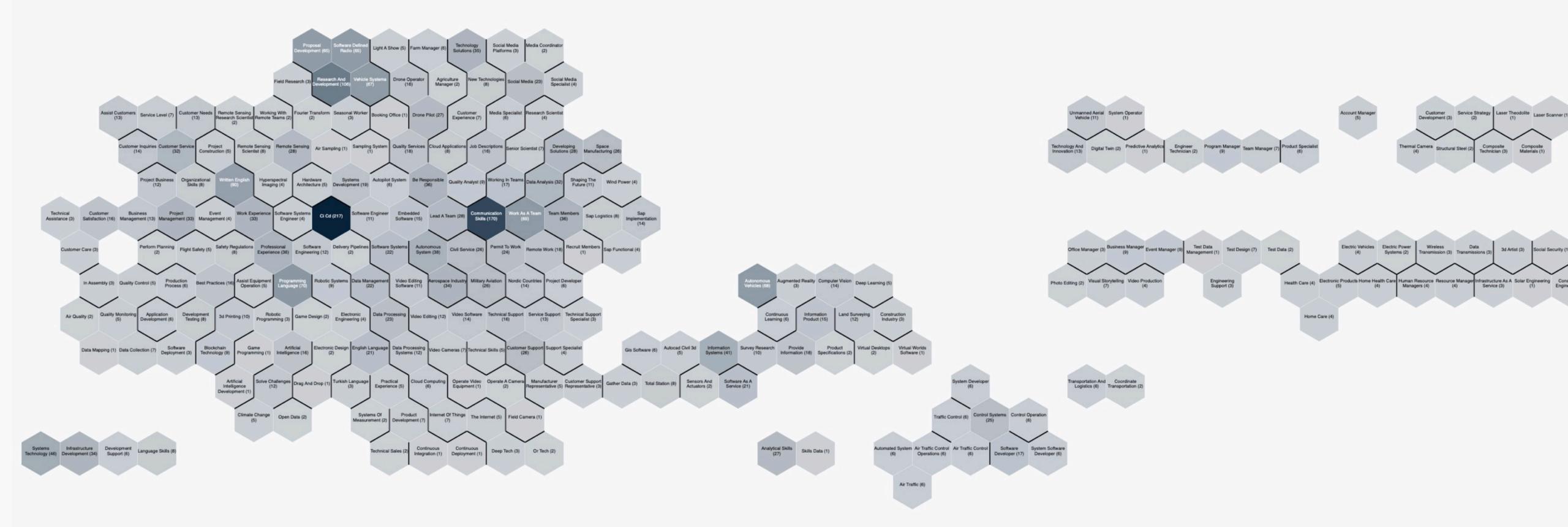
Information security professionals

1 unit = skill / competence / technology / topic

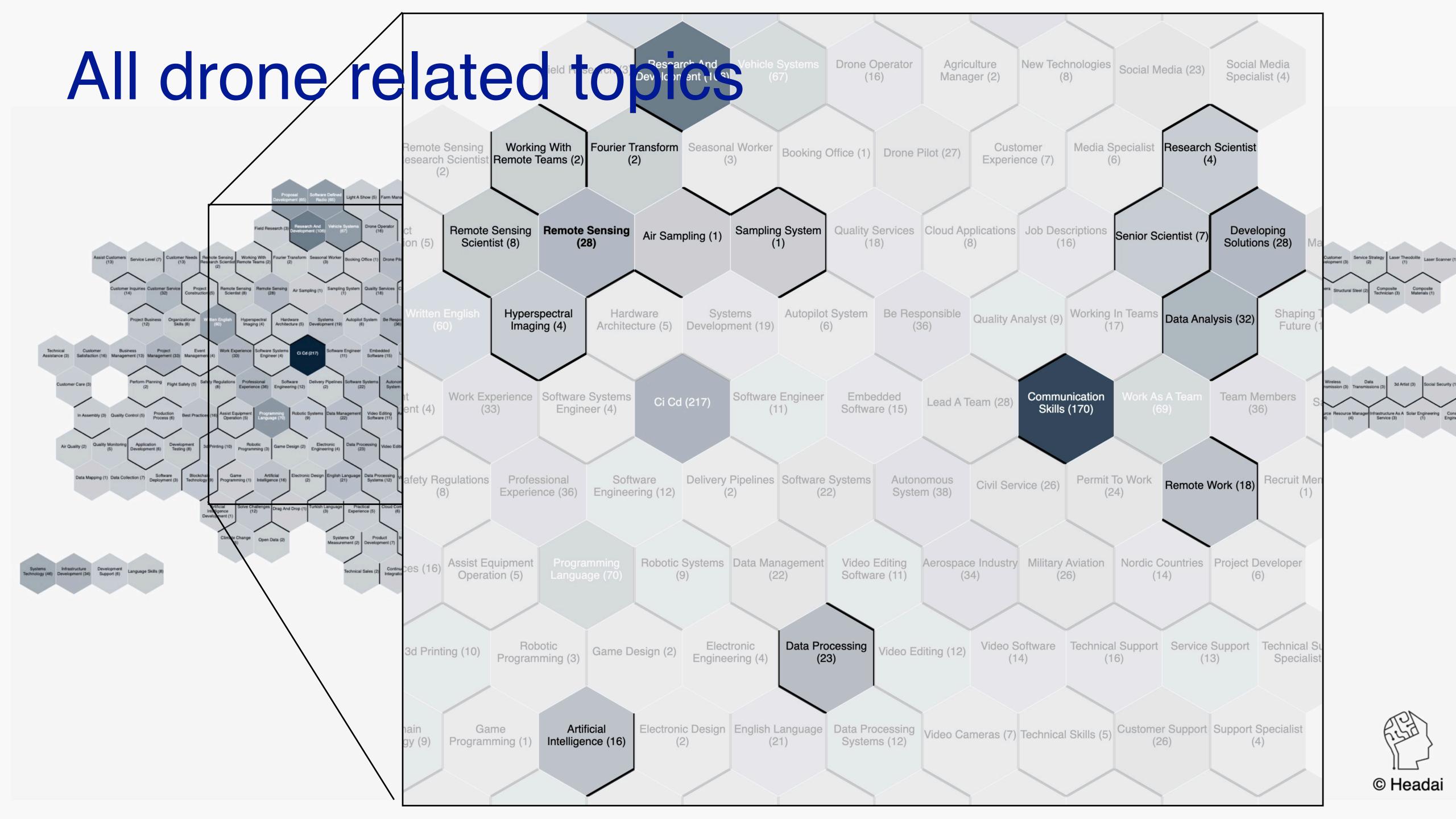


Set of skills shows the context

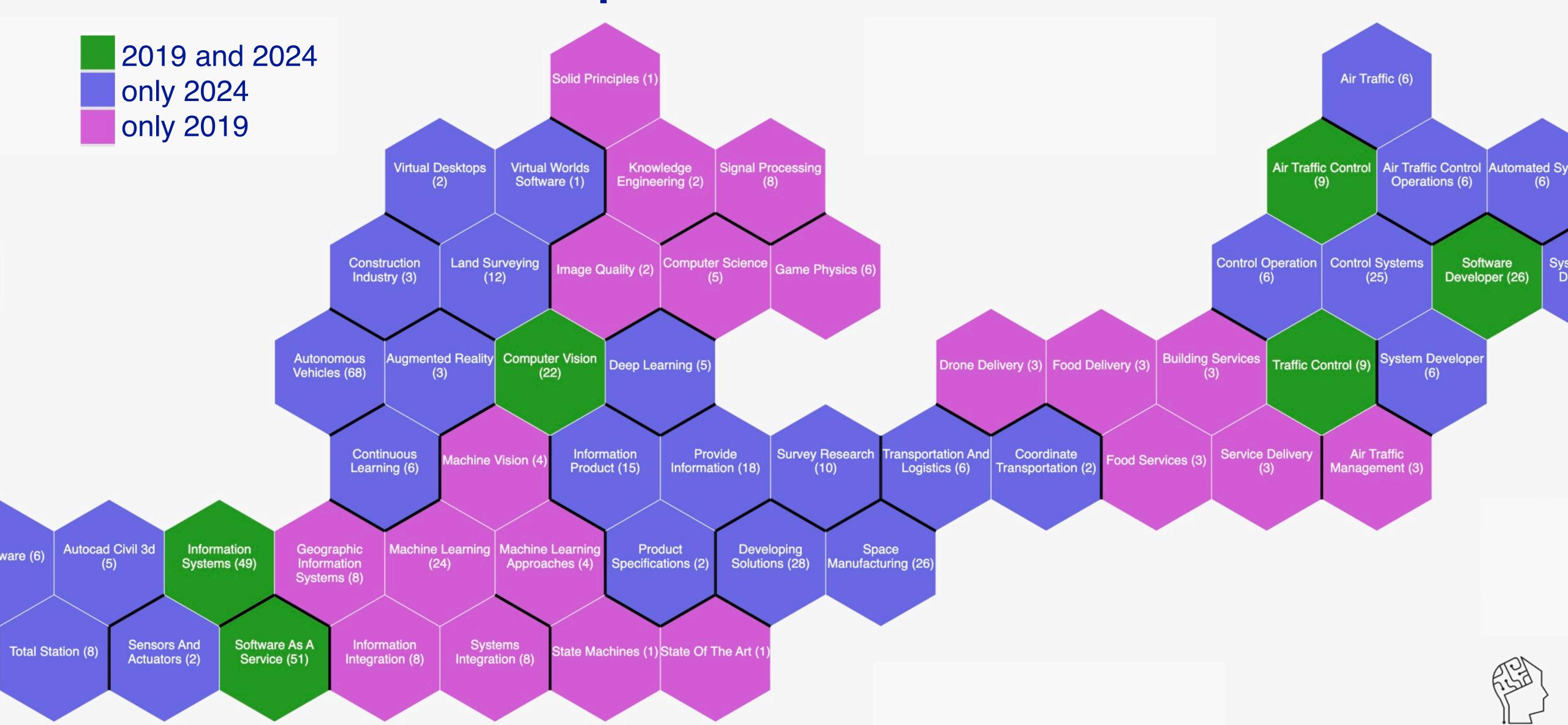
All drone related topics





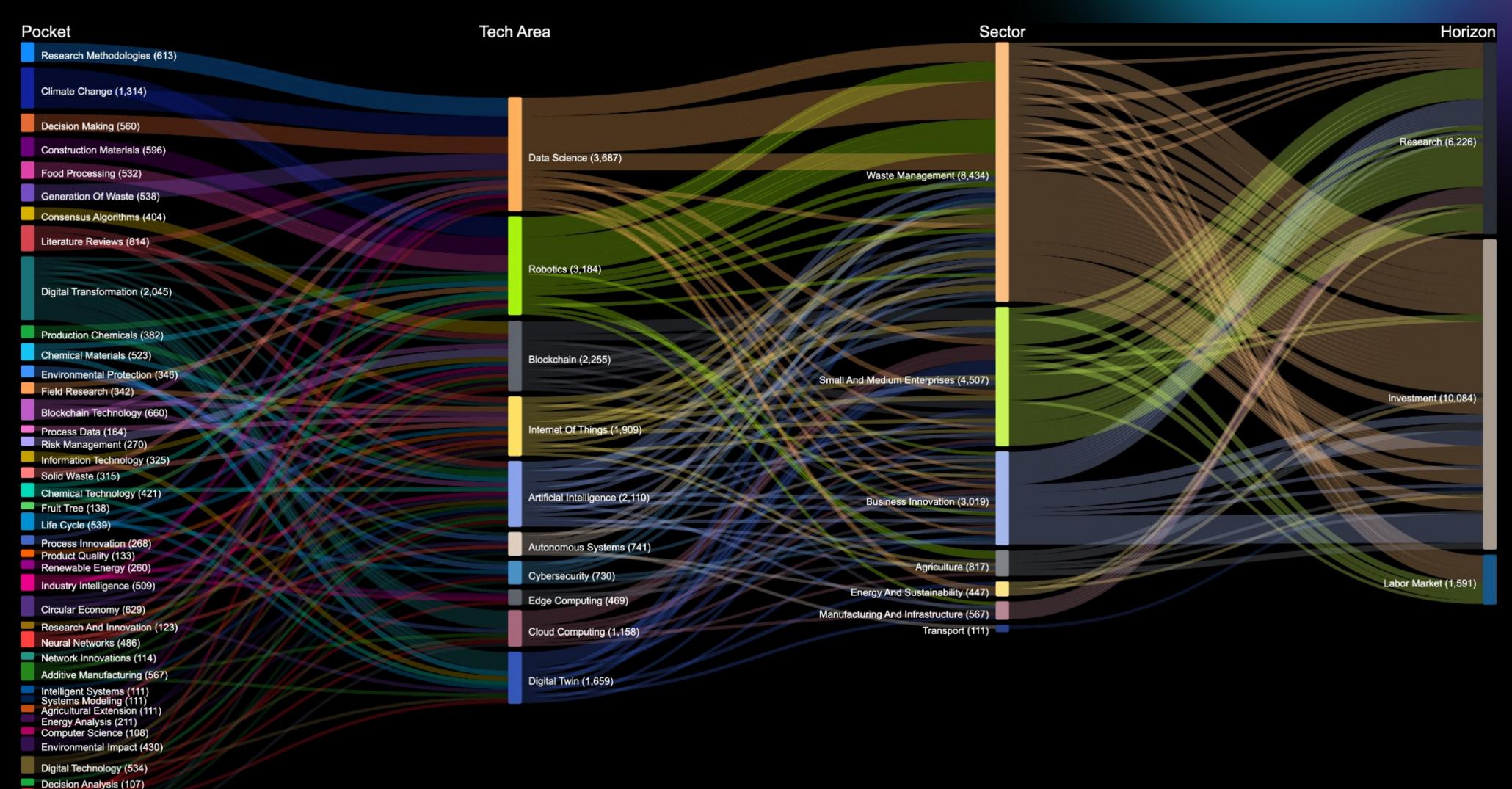


Drone related topics 2019 vs 2024



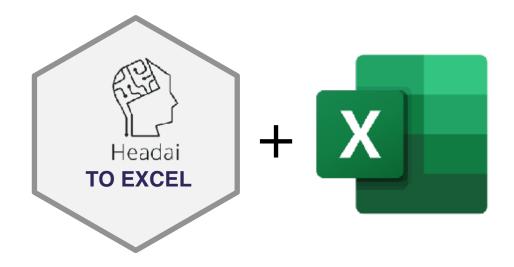
How skills are connected to tech areas and sectors

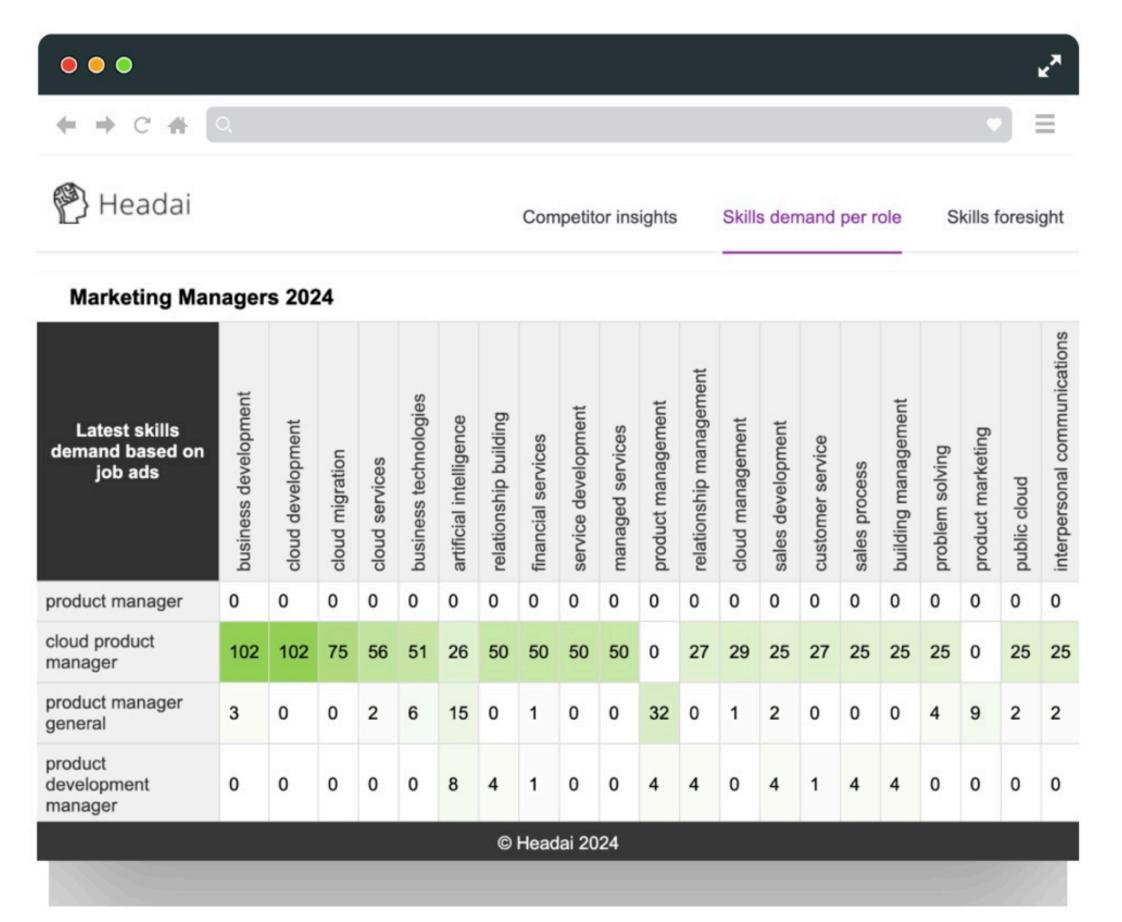


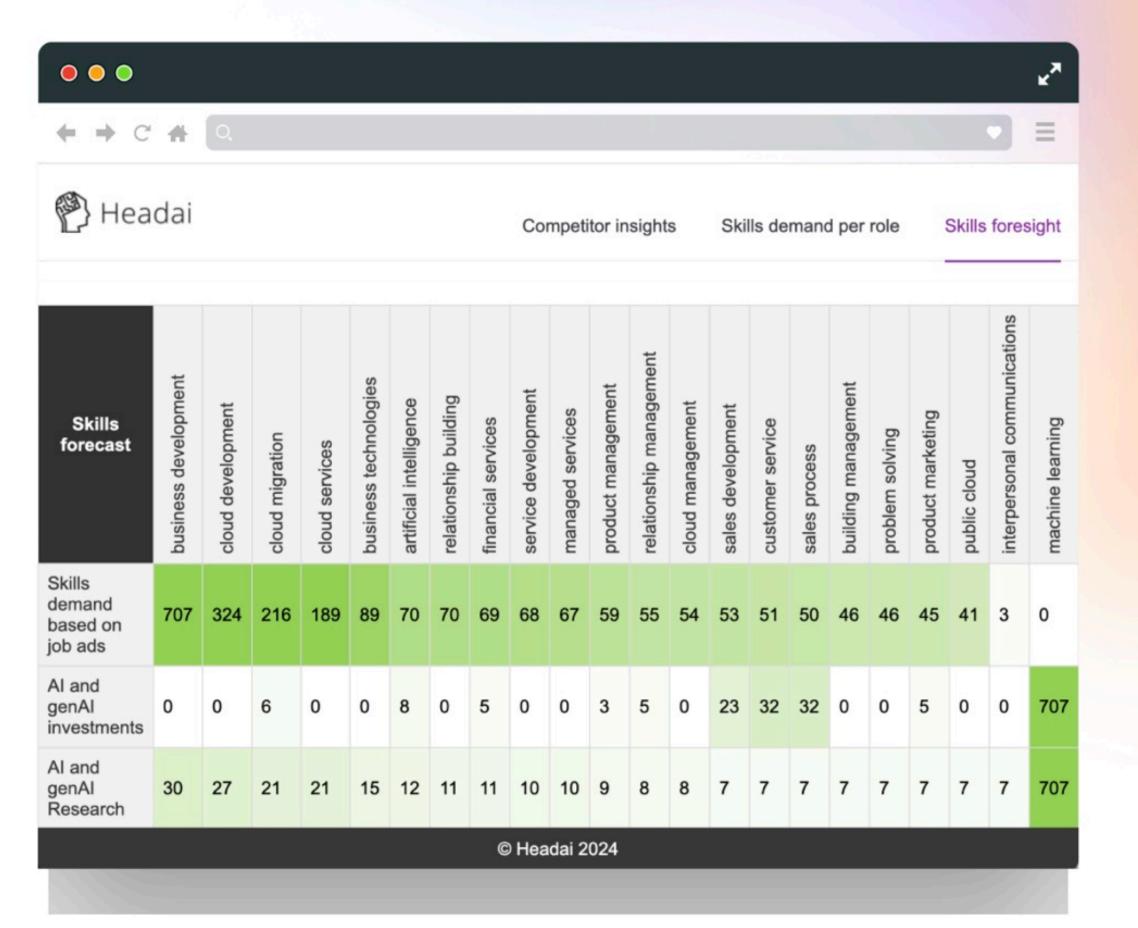


Supply Chain (739)

Systems Integration (103)
Technology Research (205)
Water Resources (202)







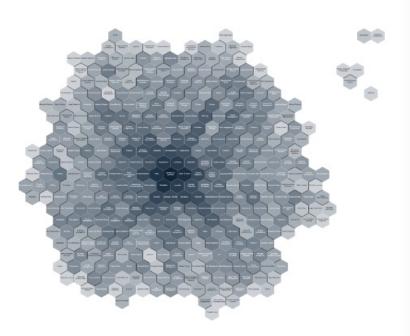




Trusted Ecosystem for Skills

Forecast of Top AI and Generative AI Skills, Investments, and Research

Top AI and Generative AI Skills (2024)



Current Skills Demand:

- 1. Natural Language Processing (NLP):
 - High demand for skills in natural language processing with a focus on creative problem-solving and complex problem-solving.
 - Key areas include natural language understanding, sentiment analysis, and language model development.
- Machine Learning:
 - Significant demand for machine learning skills, particularly in creative problem-solving and complex problem-solving.



Trusted Ecosystem for Skills Forecast

 Key Focus: The research data provided insights into the latest advancements, ongoing research efforts, and the direction of future studies in Al and Generative Al.

Key Findings

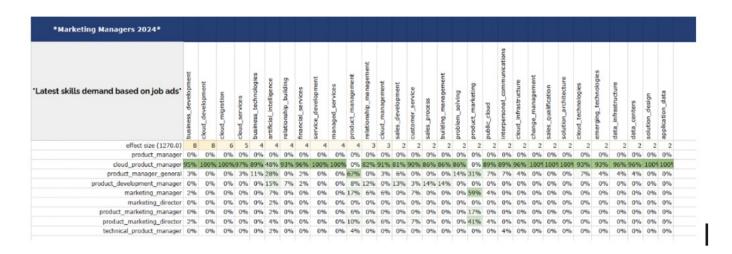
Current Positions and Skills Demand

Marketing Managers

The highest demand is for cloud product managers. These roles require expertise in cloud technologies, artificial intelligence (AI), business development, and strategic planning. Marketing managers with AI and generative AI skills are particularly sought after for their ability to leverage data-driven strategies and optimize marketing efforts using advanced AI tools.

Product Managers

Product managers, including those in marketing and technical roles, need robust AI skills. These include requirement <u>prioritization</u> using AI, customer engagement through AI-driven insights, product data management, network infrastructure, and enterprise marketing. Knowledge of AI-powered product development and market analysis is crucial for these roles.





Trusted Ecosystem for Skills Forecast

- Essential skills include developing and deploying machine learning models, supervised and unsupervised learning techniques, and model optimization.
- 3. Deep Learning:
 - High demand for deep learning expertise, focusing on model development and optimization.
 - Skills in neural network architectures, convolutional neural networks (CNNs), and recurrent neural networks (RNNs) are particularly valued.

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Skills gaps



O) Organizations

Documentation

Files

Purchases

Settings

Training

Headai Cloud

Feel free to explore and try our APIs in action.

You can:

- Create your own DigitalTwin.
- Compare two different graphs.
- Try our compass.
- Put data in timeline

Align your data with the labor market needs

Ensure your curriculum is future-proofed and engages students

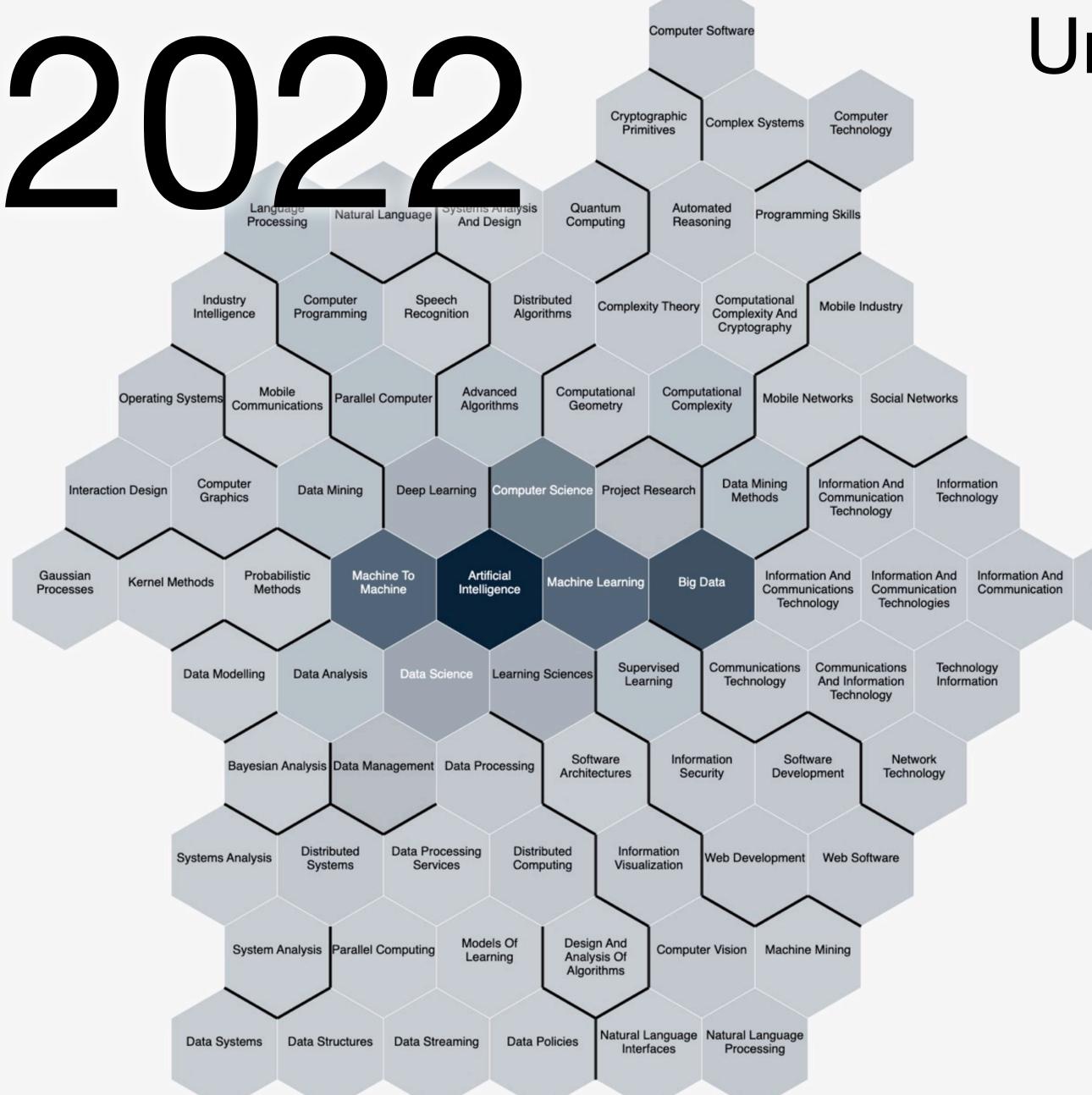
Align your data with internal KPIs or external indicators

Build custom scorecards

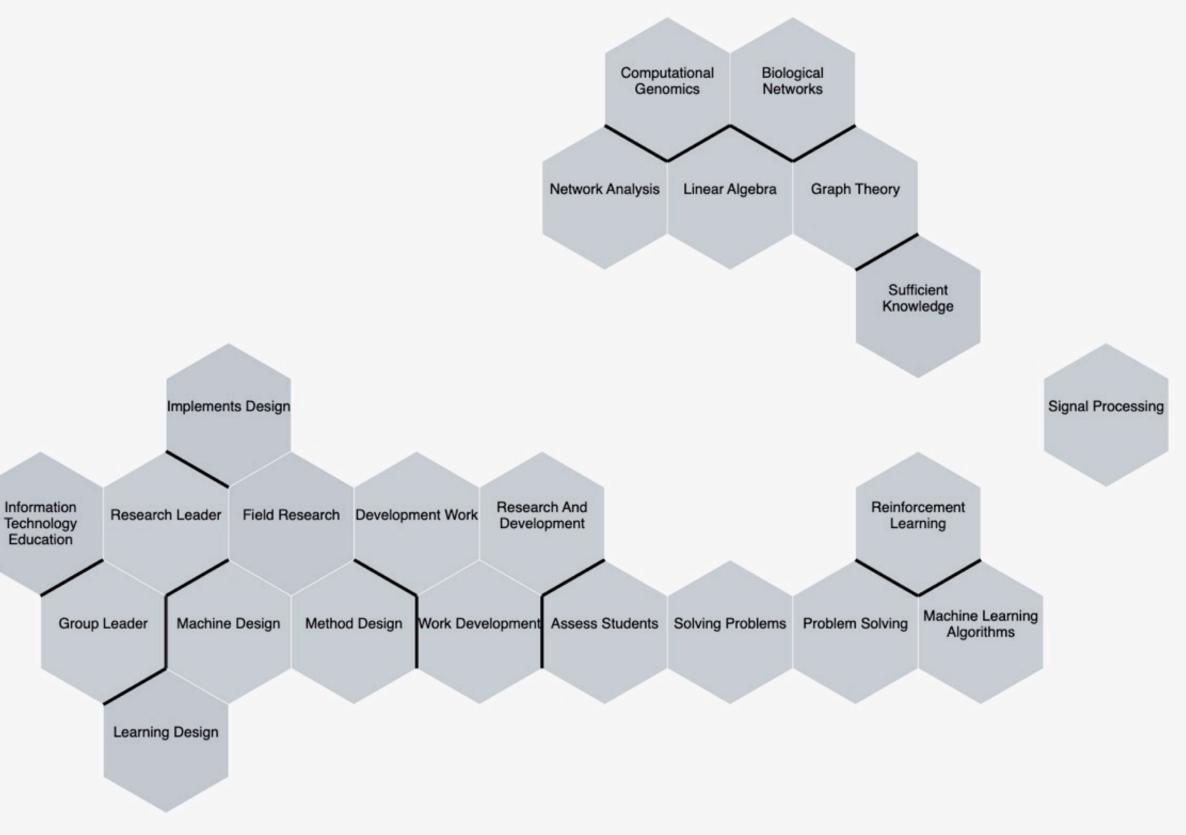
Align your data with UN SDG

Equip students for meaningful contributions to global challenges

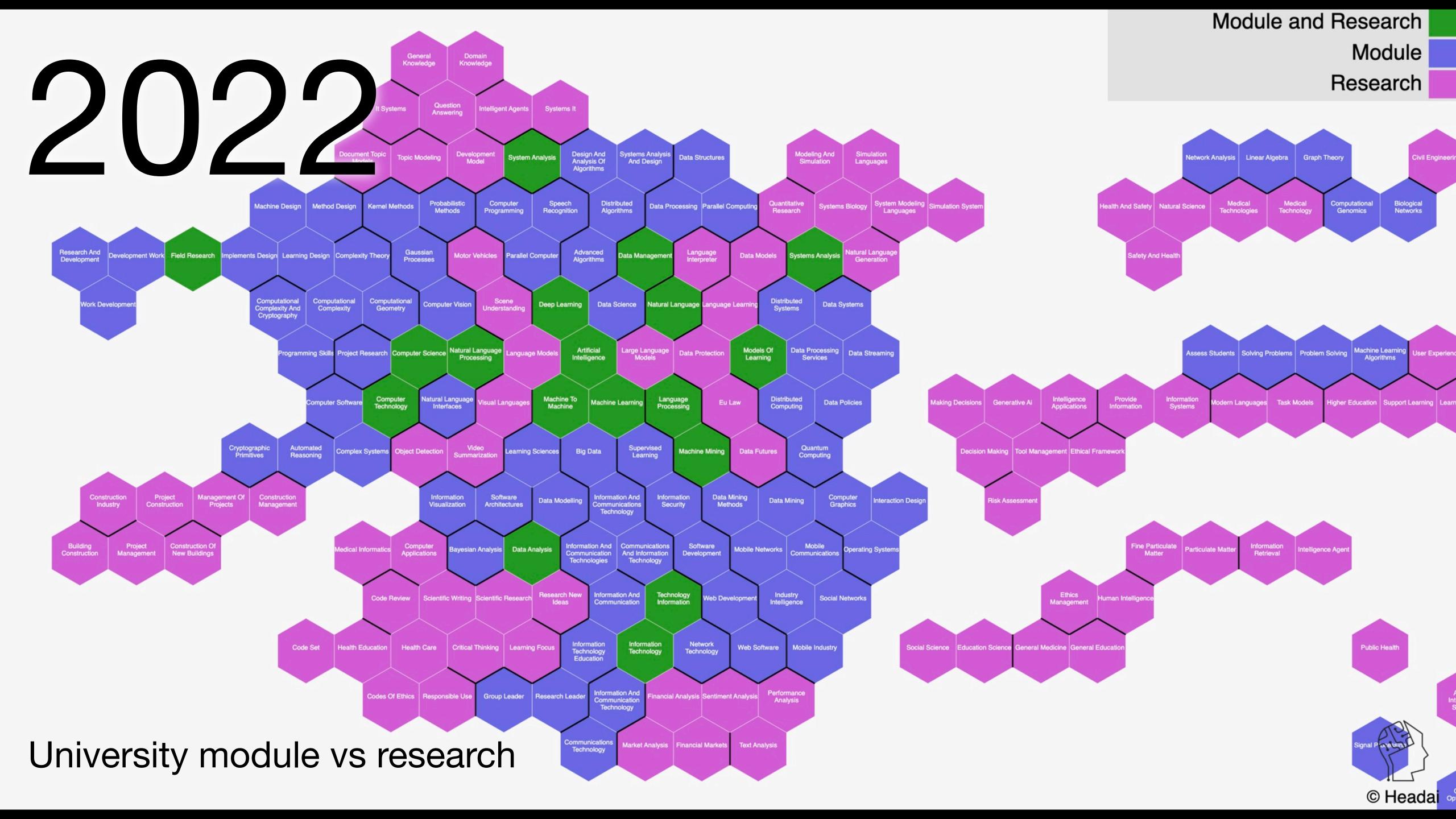




University module vs research









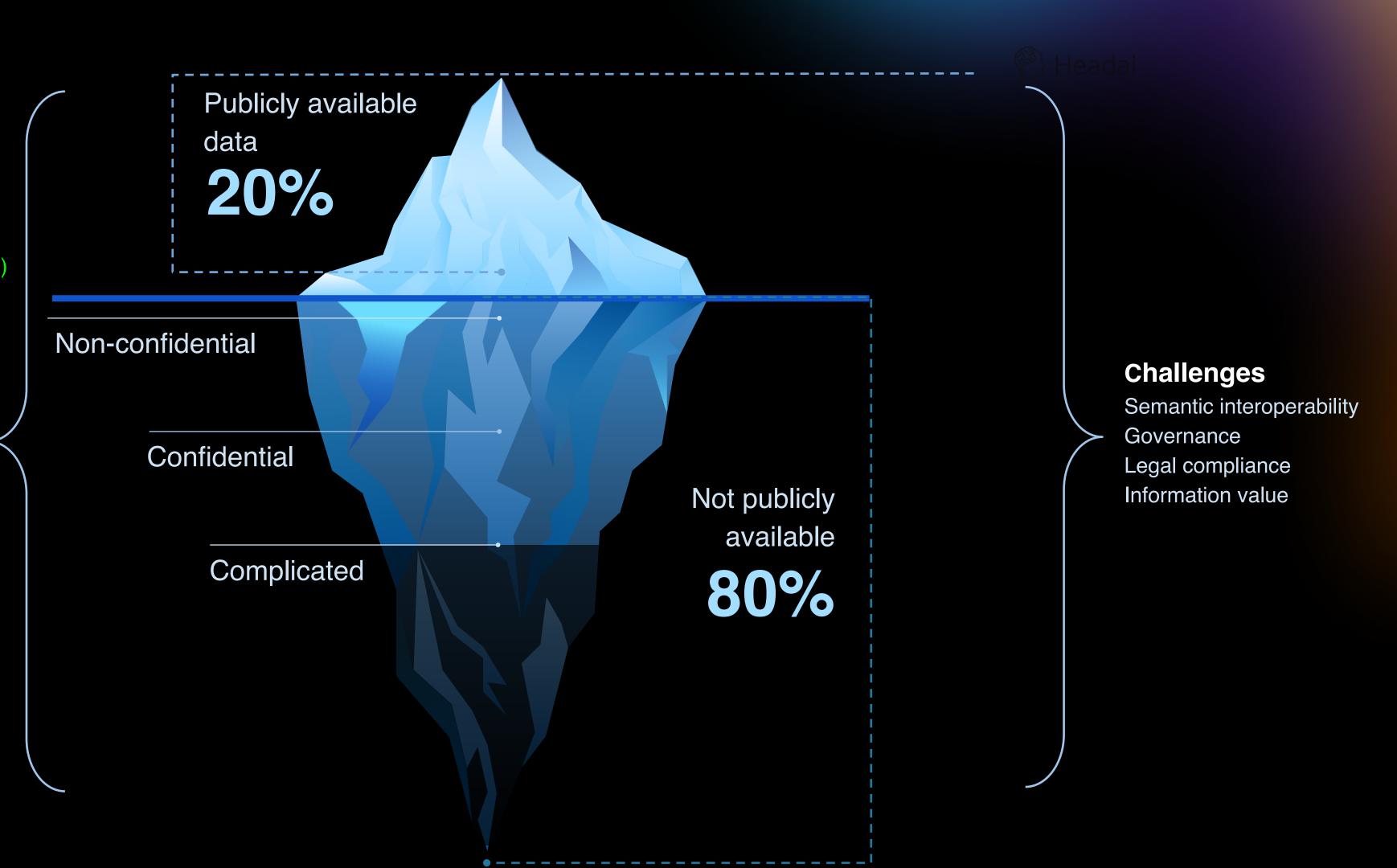
Skills based osint







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- □ **I**2P



Technologies age Skills are forever

Harri Ketamo Founder, Headai

