

DOCTORAL EDUCATION PILOT AND RESEARCH AT LUT

Jari Hämäläinen

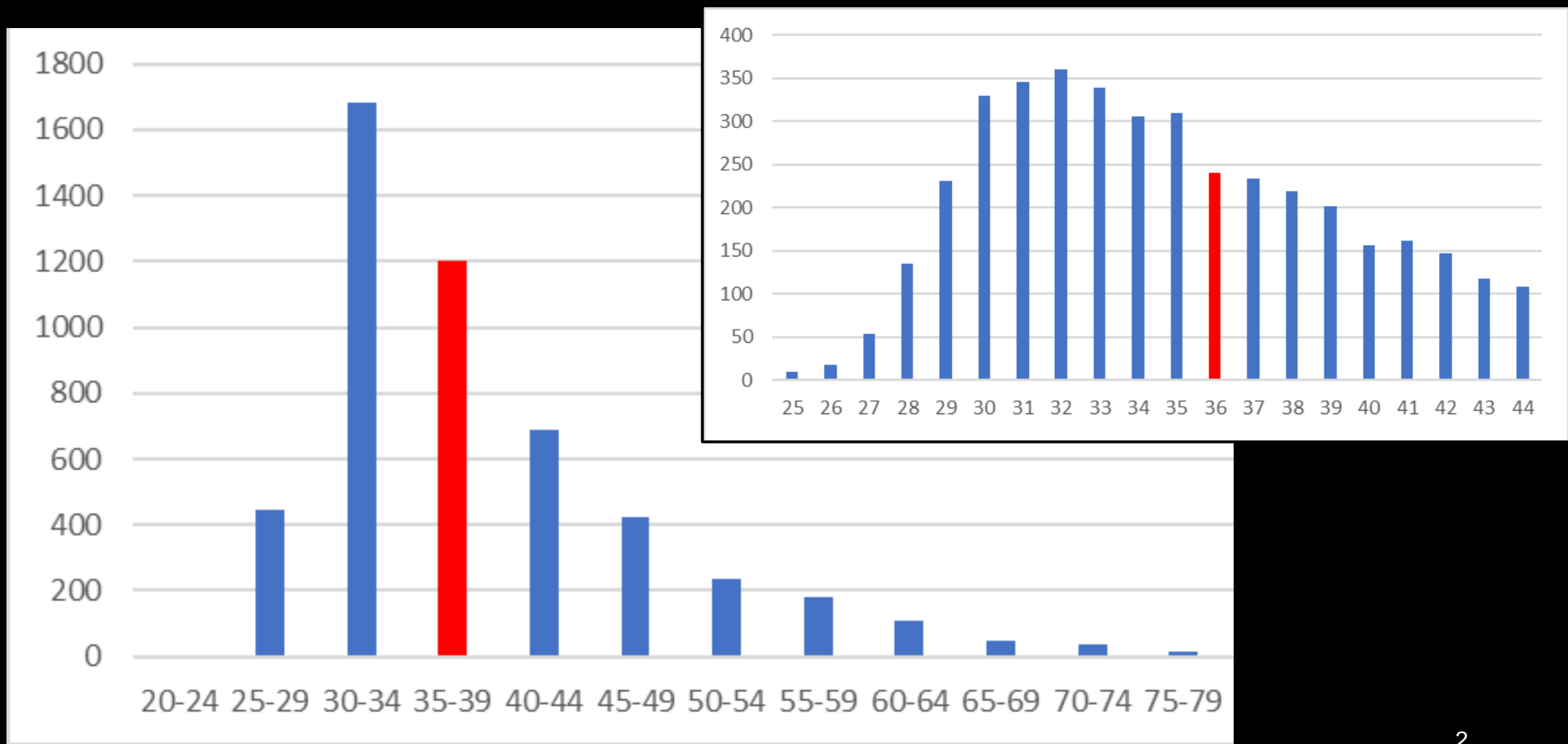
Vice President, Research and Innovation; Professor, Industrial Mathematics

Chair, Unifi committee of the vice-rectors for research (2021-2024)


Chair, Unifi steering group of the doctoral educational pilot (2024)

Member, MoEC national monitoring group for doctoral educational pilot (2024-2027)

DOCTORS' GRADUATION AGE DISTRIBUTION IN FINLAND (2020-22)



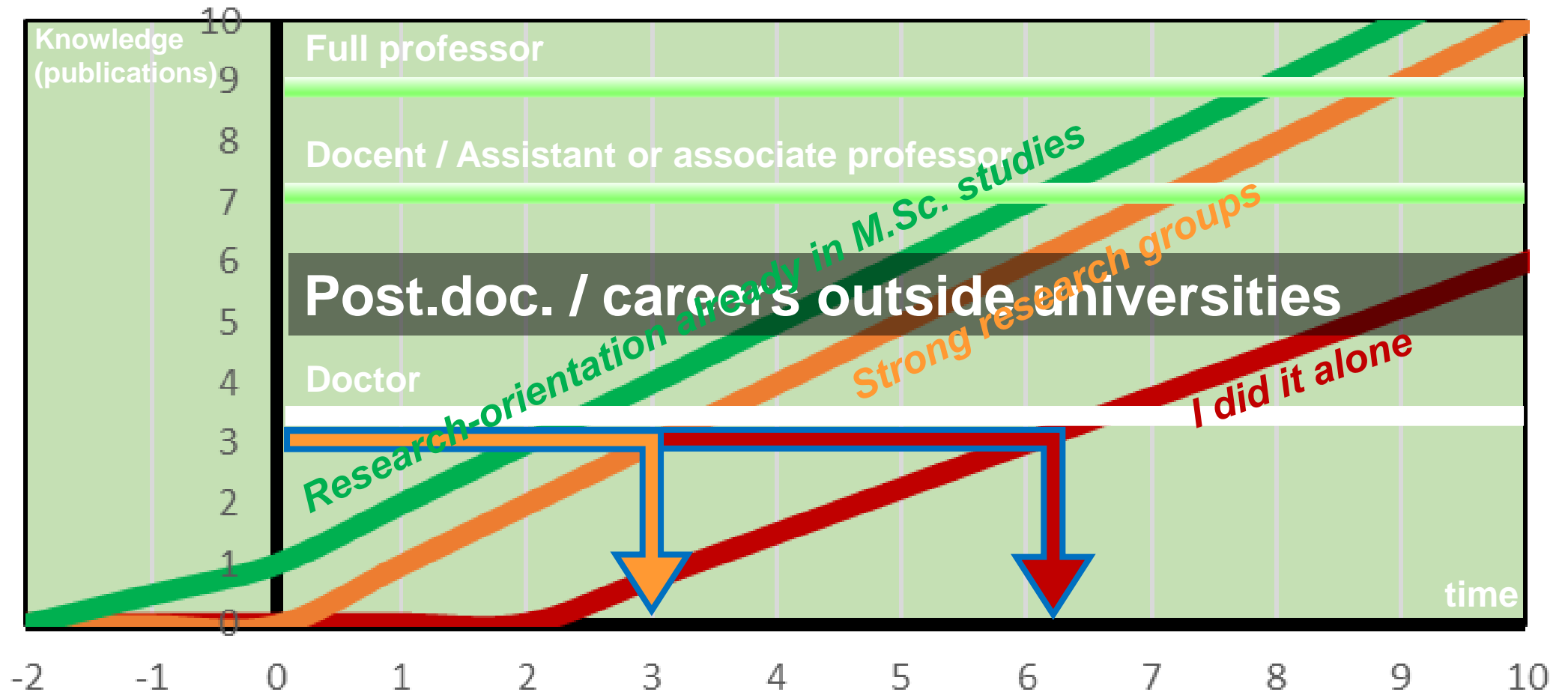
BACKGROUND OF THE DOCTORAL PILOT

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- 1) Increase the **number of doctors** in Finland, taking into account the supply of new knowledge (**security of supply**)
 - 2) Test a more **flexible** process and content for doctoral education
 - 3) Increase the **mobility** of doctoral researchers between universities, companies, research institutes and other organizations, and encourage new doctors to pursue diverse research **careers**
 - 4) Provide information on doctoral training processes and collect data on the possible need for **regulation** of third-cycle studies
 - 5) Develop **supervising** practices and the integration of postgraduate studies with **previous studies** (e.g. complete a master's degree during doctoral studies)
 - 6) Increase the **employment** of doctors in a wide range of sectors in society, postdocs, R&D positions

DOCTORAL PILOT PROJECTS AND UNIFI'S RECOMMENDATION

- Parliamentary R&D Working Group and the Government Program (R&D funding act)
 - R&D spending 4% of GDP by 2030
- A total of 262 million for the doctoral pilot in 2024–2027
 - **1000** doctoral researchers * 3 years * €85,000/year = **€255 million**
- Research Council of Finland applications on 29 November 2023
 - **800** places for flagship fields and **200** places for optional research fields
 - 15 funded consortia with 16 – 152 places
- UNIFI recommendations published in June (in [Finnish](#) and in [English](#))
 - Doctoral studies and research in **3** years when working full time
 - Article-based thesis with **3** peer-reviewed scientific publications
 - **30** ECTS studies
- Monitoring group established by MoEC for the years 2024-2027

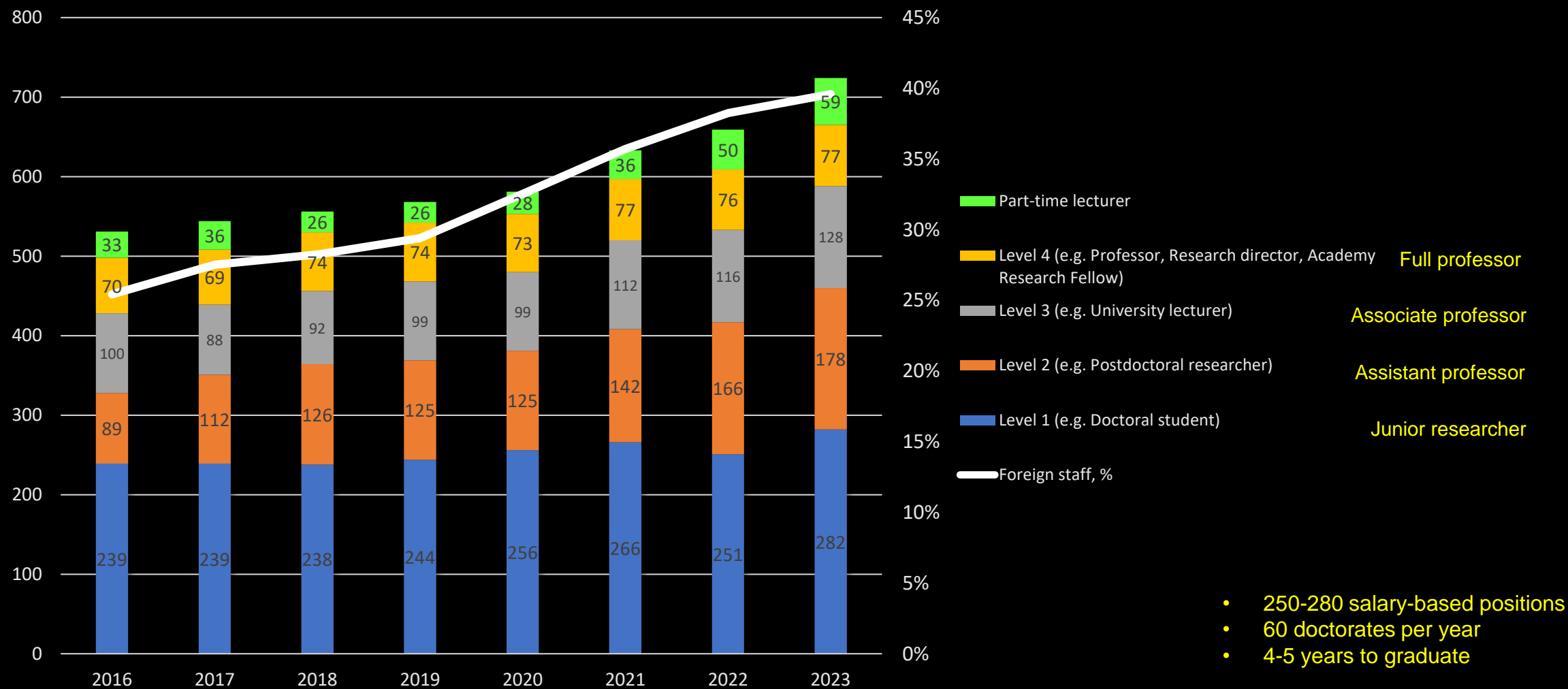
DEVELOPMENT OF KNOWLEDGE DURING DOCTORAL STUDIES





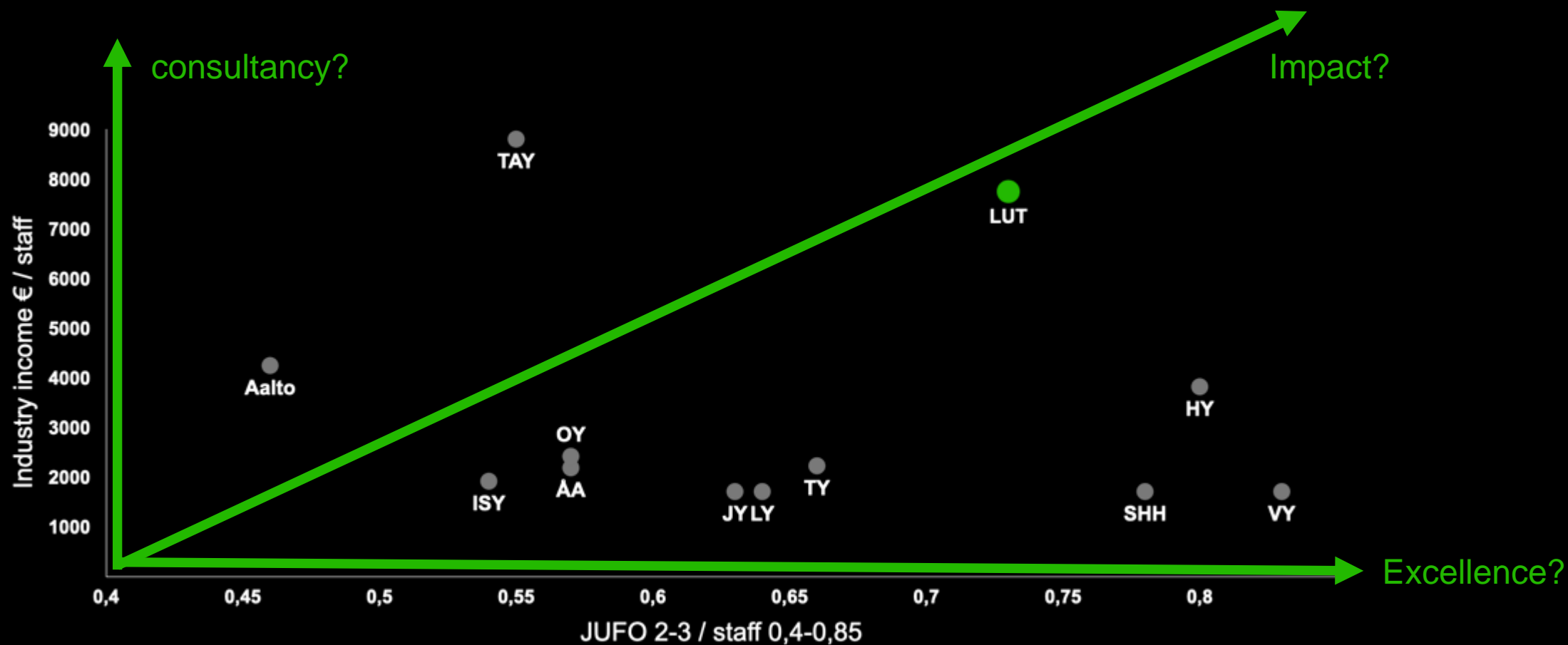
RESEARCH AT LUT

TEACHING AND RESEARCH STAFF (FTE) 2016-2023

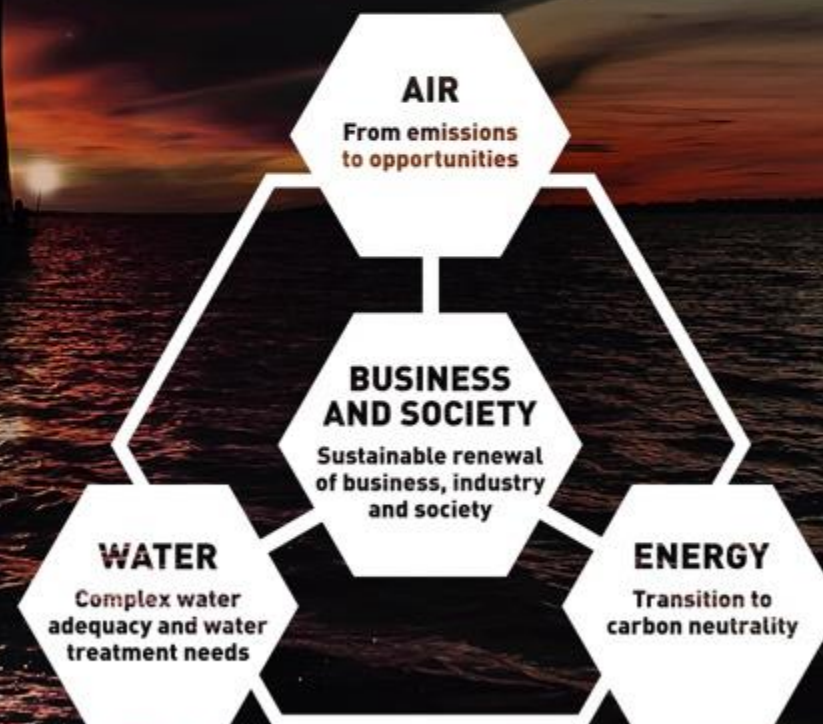


JUFO 2-3 PUBLICATIONS AND INDUSTRY INCOME PER TEACHING AND RESEARCH STAFF MEMBER

■ All Finnish universities 2022



SYSTEM EARTH



LEADING RESEARCH

- » Finland's largest academic research and education community in the field of **energy**
- » Unique **nuclear** safety expertise
- » Finland's most extensive **water** treatment research cluster
- » A leading research and education community in **separation** technology
- » A leading research community in international, sustainable, high-growth **business**



LUT's Commitments

OUR PRIMARY GOALS



Through our Trailblazer 2030 strategy and research, we primarily influence the UN Sustainable Development Goals above.



 LUT is one of the world's

TOP 200 UNIVERSITIES

2024: LUT (200), Helsinki (200), UEF (300), Jyväskylä (400), Oulu (400), Turku (600), Vaasa (1000)

2023: LUT (200), Helsinki (300), UEF (400), Jyväskylä (400), Oulu (600), Turku (600), Vaasa (1000)

2022: LUT (200), Aalto (400), Tampere (400), UEF (600), Jyväskylä (600), Oulu (600), Turku (600), Vaasa (1000)



THE WORLD
UNIVERSITY
RANKINGS

 LUT University ranks

10th IN THE WORLD

for climate impact (SDG 13)

The Times Higher Education Impact Rankings 2024 assess the social and economic impact of universities against the United Nations' Sustainable Development Goals.





THE WORLD
UNIVERSITY
RANKINGS

 LUT University is
15th IN THE WORLD

in responsible consumption and production (SDG 12)

The Times Higher Education Impact Rankings 2023 assess the social and economic impact of universities against the United Nations' Sustainable Development Goals.



Our rankings among the world's 25,000 universities

ONE OF THE WORLD'S TOP UNIVERSITIES

251–300th

Times Higher
Education World
University Rankings
2024 and 2025

126–150th

Times Higher
Education World
University Rankings
2024 *by subject:*
*business and
economics*

176–200th

Times Higher
Education World
University Rankings
2024 *by subject:*
physical sciences

251–300th

Times Higher
Education World
University Rankings
2024 *by subject:*
*engineering and
technology*

336th

QS World University
Rankings 2025

SYSTEM EARTH

