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# ***Past and Future of FinnFusion***

**Tuomas Tala**  
**Head of the Research Unit**

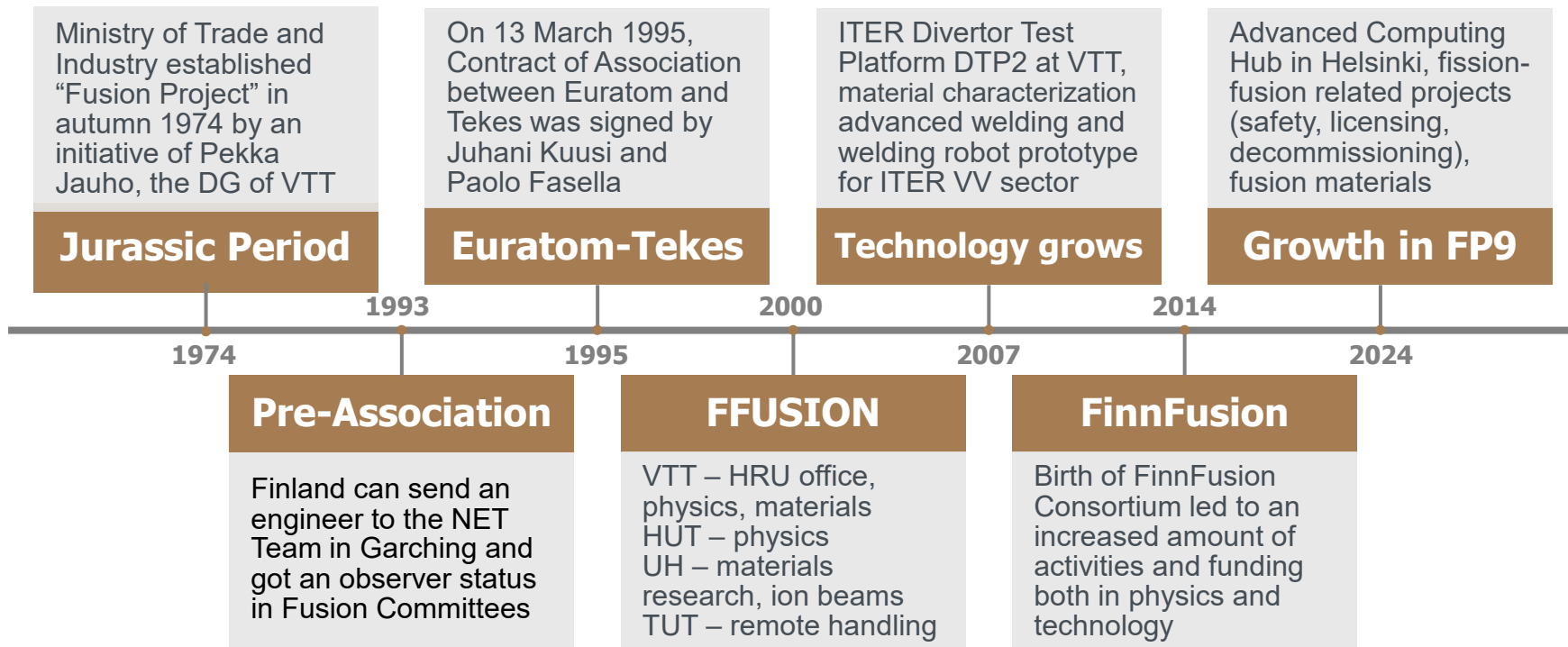
27/05/2024

VTT – beyond the obvious

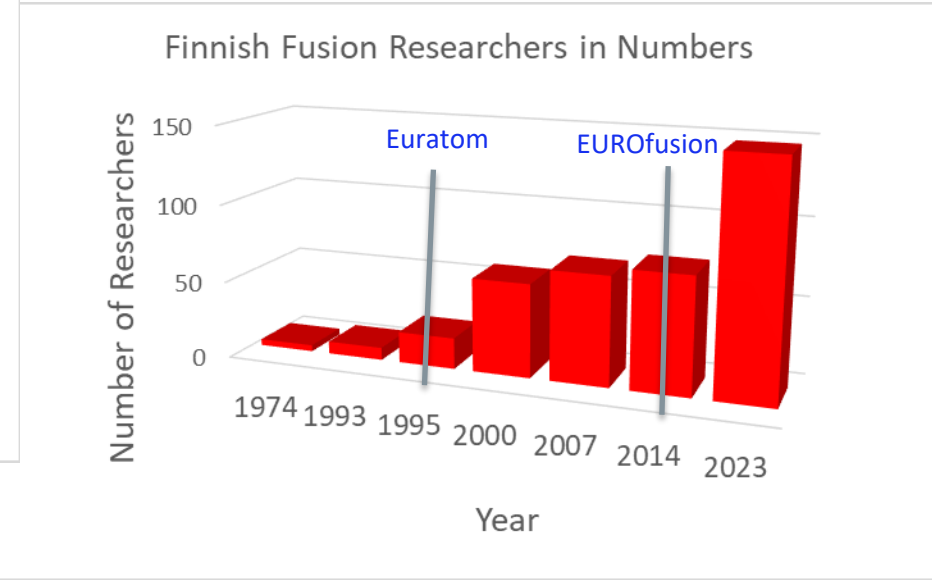
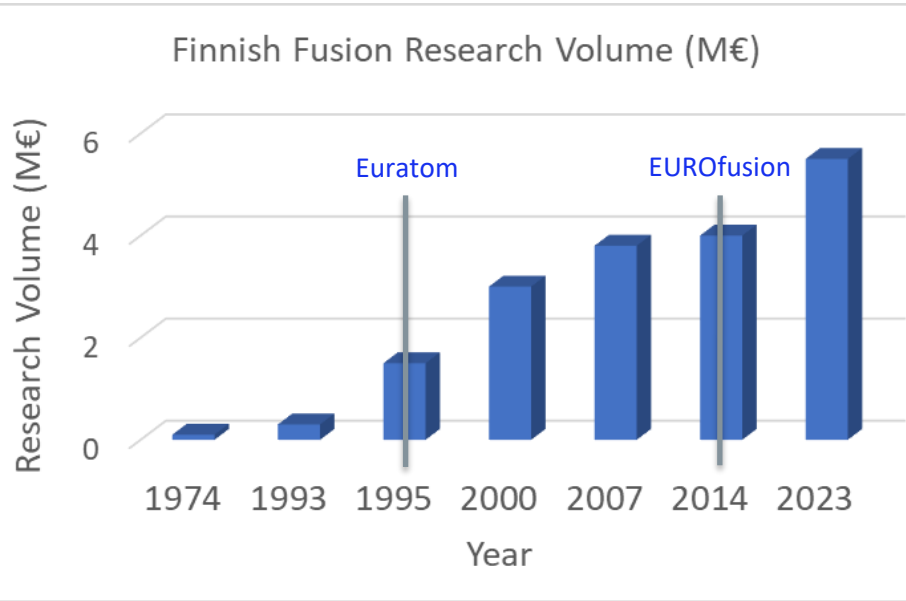
# The History of Fusion Research in Finland

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# Development of Finnish Fusion Research in Numbers

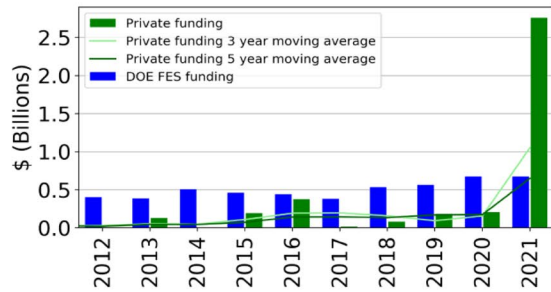


Jurassic period    Pre-As-sociation    Euratom-Tekes    FFUSION Technol. grows    EURO-fusion    Growth In FP9

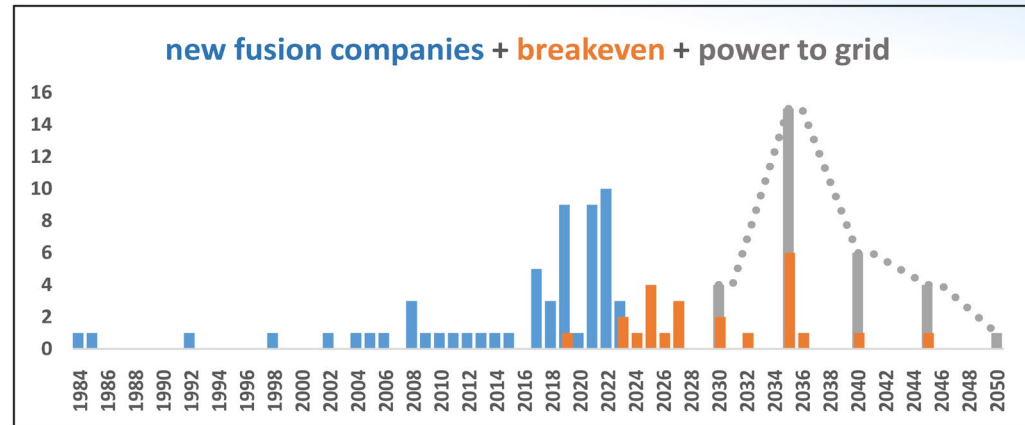
## 2. Fusion today and tomorrow

### Private fusion sector – avalanche of investments

US: investments in fusion 2012-2021

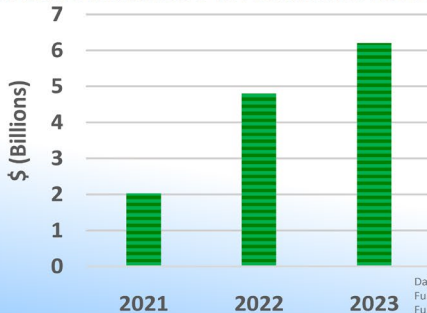


Plot credit: Sam Wurzel, ARPA-E, Presentation at DoE Workshop on Fusion Energy Development, 1-3 June 2022



Fusion Industry Association survey – The Global Fusion Industry in 2023  
 Fusion companies: [https://github.com/alkoehn/fusion\\_plots/blob/master/fusion\\_companies/fusion\\_companies.md](https://github.com/alkoehn/fusion_plots/blob/master/fusion_companies/fusion_companies.md)

Global: cumulative investments 2021-2023



Data for 2021, 2022 and 2023:  
 Fusion Industry Association survey – The Global Fusion Industry in 2022  
 Fusion Industry Association survey – The Global Fusion Industry in 2023

- in 2023: 44 fusion companies (40 new companies since 2017)
- Various concepts; *agile* solutions; fast delivery of fusion

“Fusion power in 2040s”

K. Heinola, IAEA, Nordic Nuclear Forum 2024

# Major Things to Foresee in Future FinnFusion

- National (matching) funding for fusion (EU/Euratom) projects?
- National fusion infrastructure?
- Licensing of fusion devices in Finland?
- Participation in private fusion enterprises' programmes?
- Fusion education in universities?

# First Ever FinnFusion Project Leader in EUROfusion – WPRM



Karoliina Salminen



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To: GA, GA\_cc, GA\_Contact, ACPs, SCPs and  
All PMU

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Our ref.: AF/GF-24-27  
Date: 12 April 2024

**Subject: Work plan for the Implementation of the Fusion Roadmap in 2021 – 2025 - Call for the Nomination of Project Leader and Lead Beneficiary of the Work Package Remote Maintenance (WPRM).**

**Official nomination by the DEMO Project Project on 11 June**

# The Numeric History of Fusion Research in Finland



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