



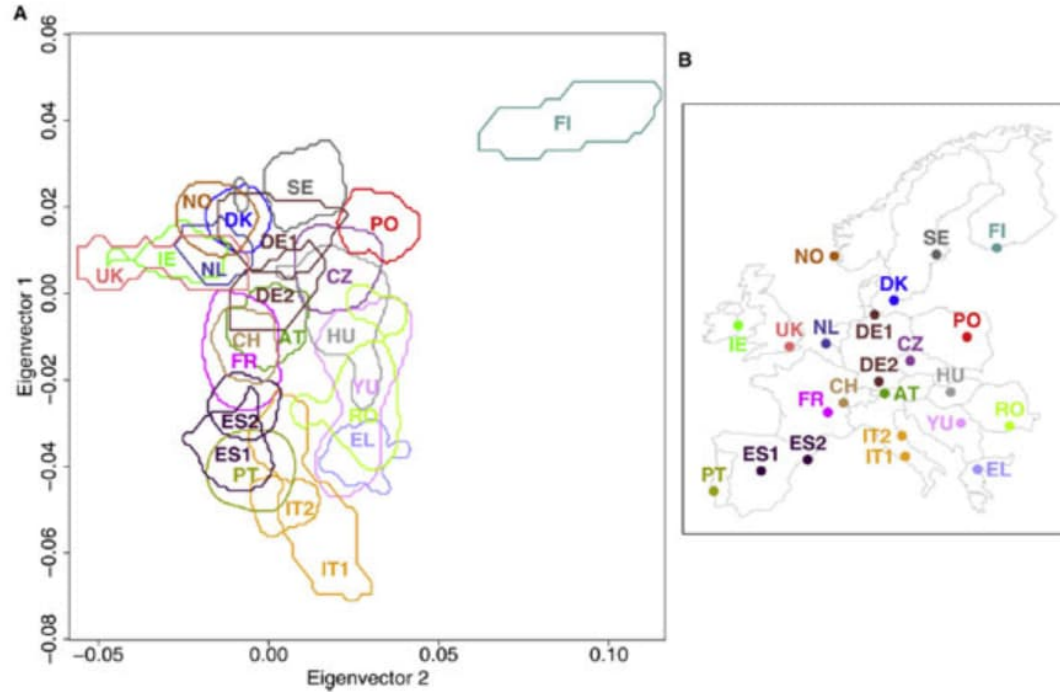
# ***Past and Future of FinnFusion***

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

15/07/2024

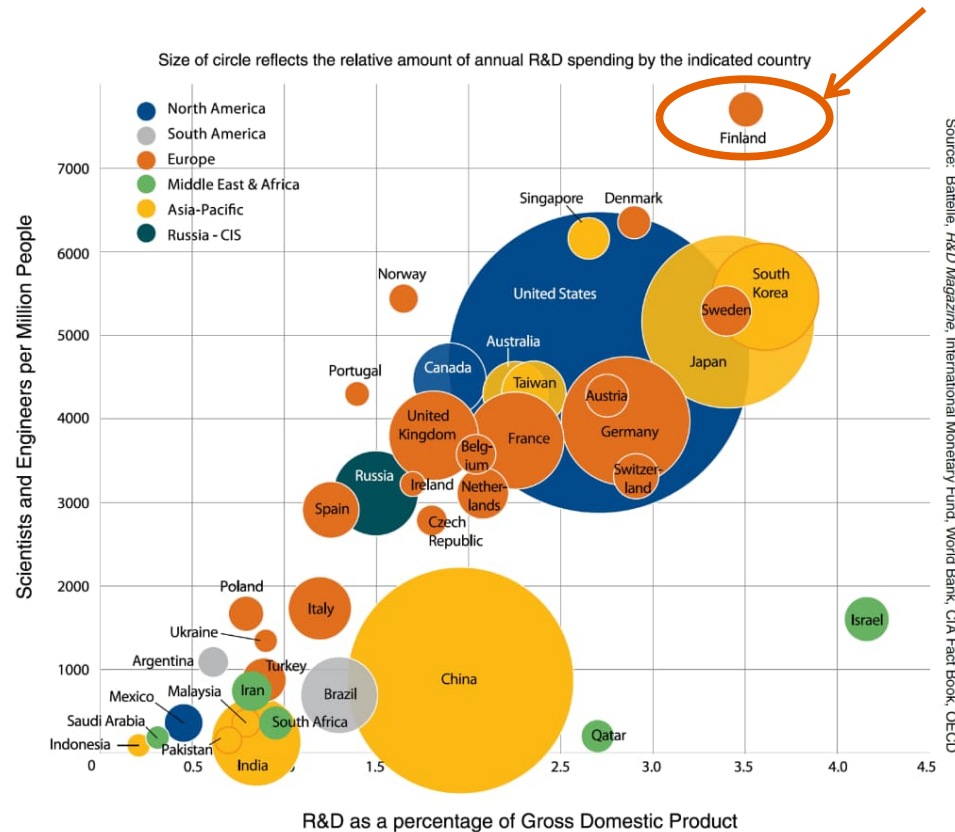
VTT – beyond the obvious

## The Genetic Map of Europe



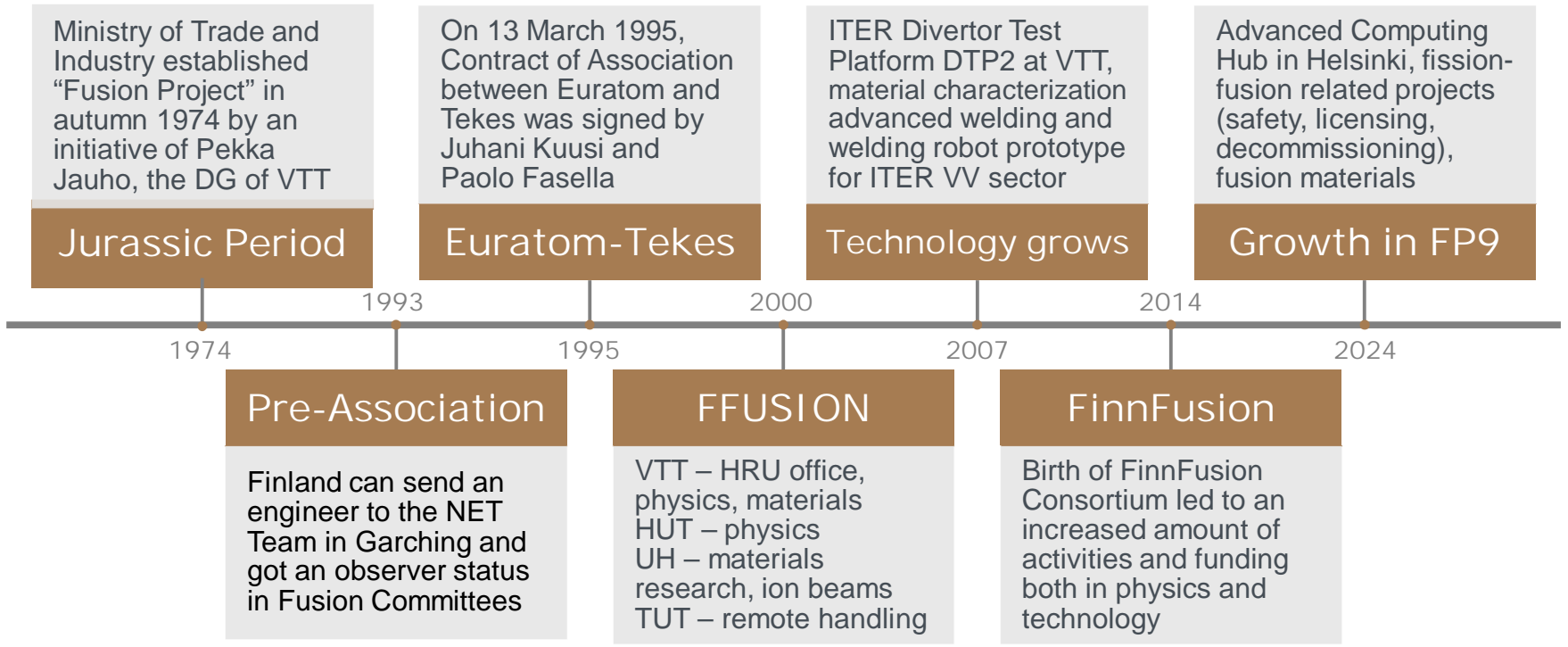
By NICHOLAS WADE  
Published: August 13, 2008

# Finland – a land of scientists and engineers?

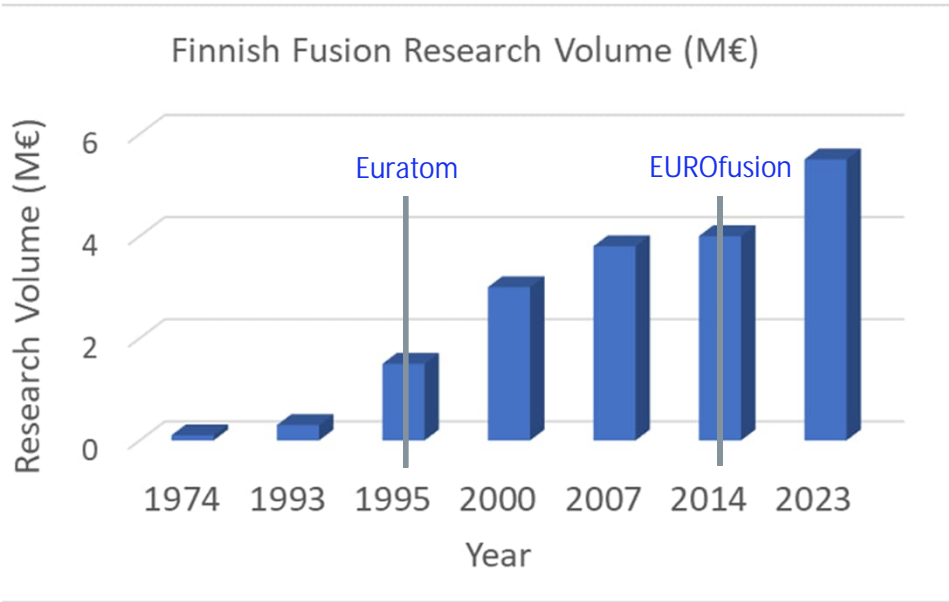


Note: Figures are from 2013

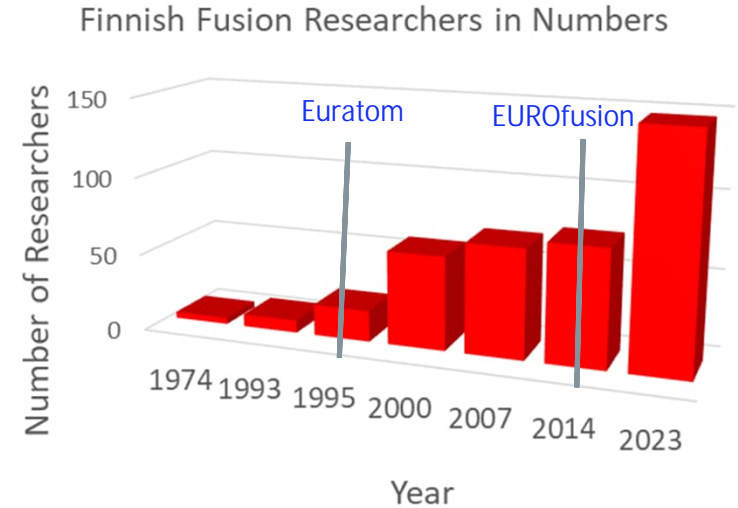
# The History of Fusion Research in Finland



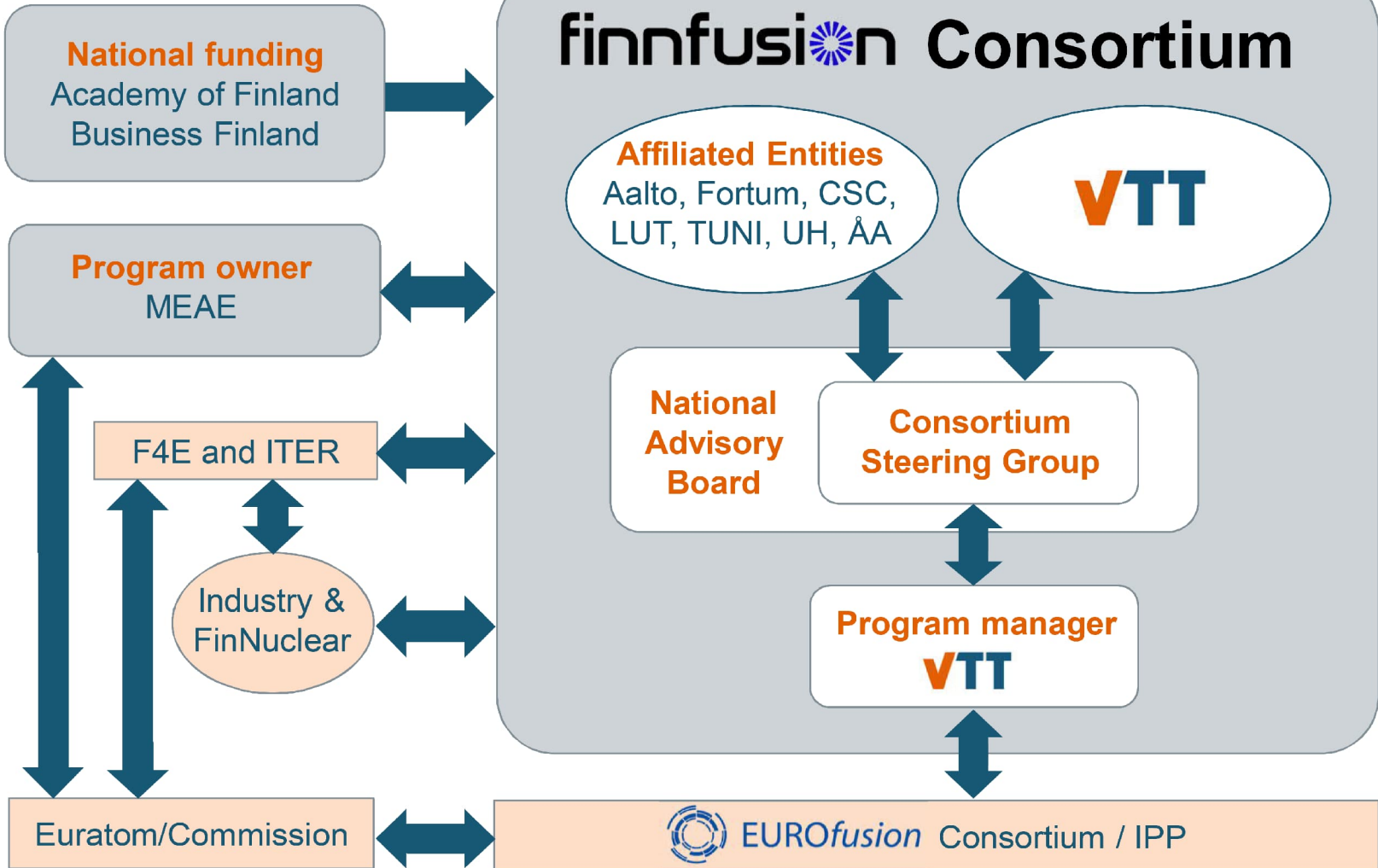
# Development of Finnish Fusion Research in Numbers



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

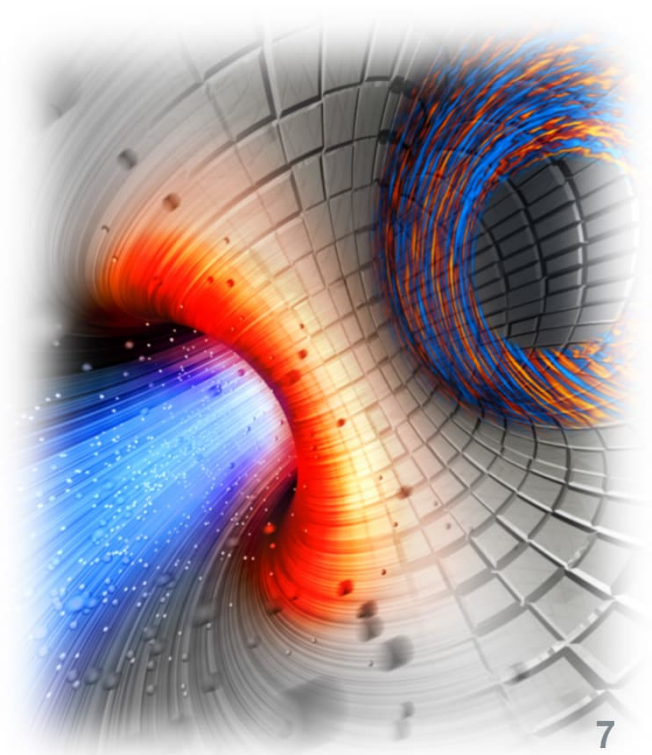


# finnfusion Consortium



## Finnish Fusion Research in a Nutshell

- History: Association Euratom-Tekes 1995-2013, FinnFusion Consortium 2014 - VTT as the beneficiary to EUROfusion
- Volume ~ 10 M€/y ~ 100 ppy/y
- National co-ordination by VTT
  
- Topics 2024:
  - Experimental and modelling activities in JET, AUG, DIII-D, C-Mod, WEST, TCV, MAST-U, W7-X, JT-60SA, KSTAR (Aalto, VTT, UH)
  - Remote handling (DTP2) (VTT, LUT, TUNI, Comatec)
  - Fusion material research (VTT, UH, Aalto, Luvata)
  - DEMO modelling and design, code development (VTT, UH)
  - Fusion power plant modelling, safety and waste (VTT, Platom)
  - Hosting EUROfusion Advanced Computing Hub (HPC, AI & ML, data management, VVUQ (UH, CSC, VTT, Aalto, ÅA)



# Major Things to Foresee in Future FinnFusion

- Licensing of fusion devices in Finland
- National fusion infrastructure
- Design and testing of novel engineering solutions for remote maintenance
- Participation in private fusion enterprises' programmes
- Fusion education in universities