



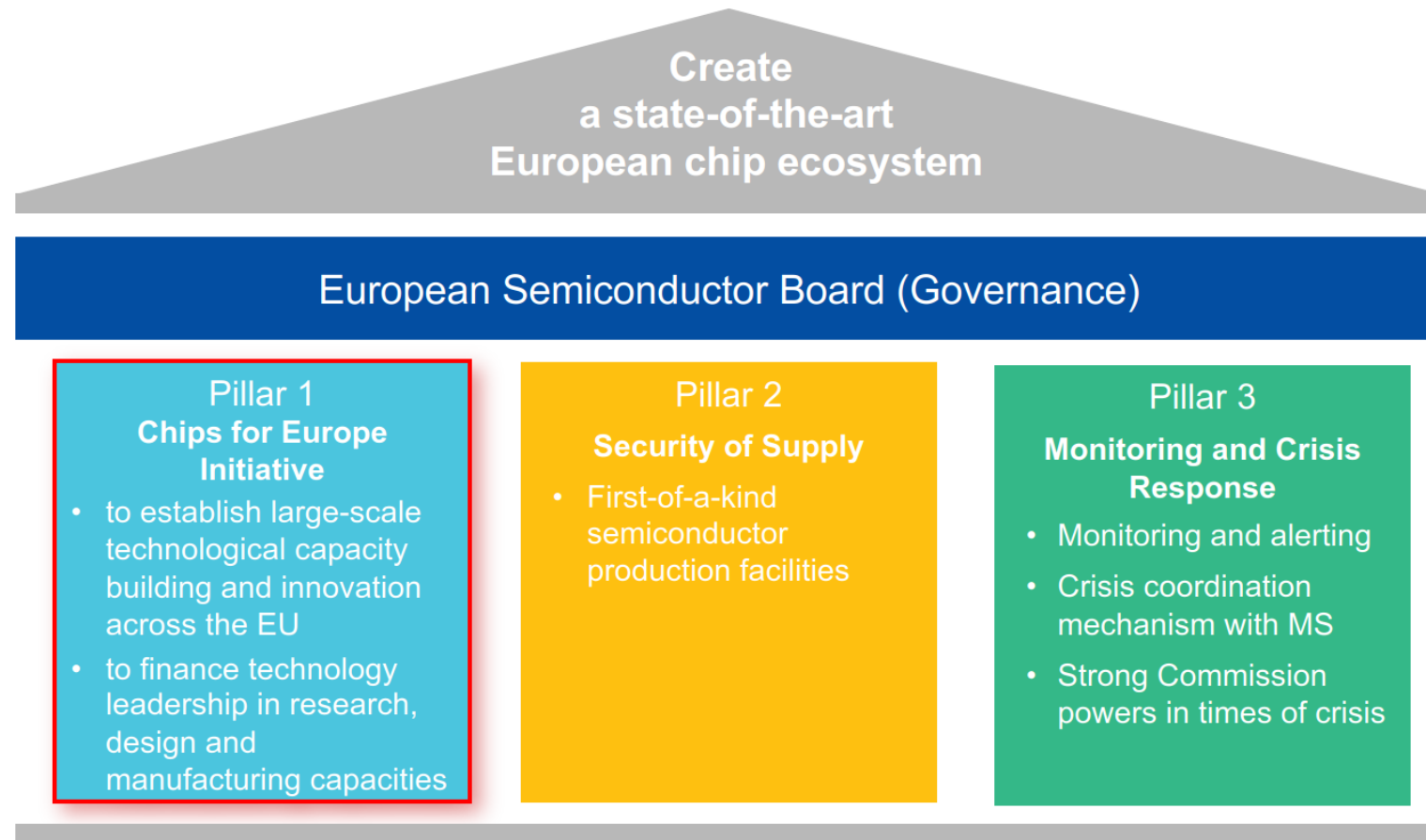
**BUSINESS
FINLAND**

EU Chips Act, short intro

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The European solution: EU Chips Act

Three pillars of the Chips Act



Chips for Europe Initiative

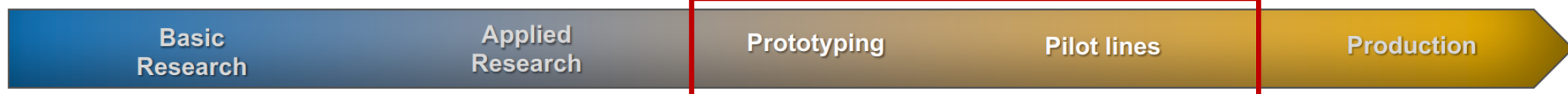
Aim: bridging the gap from lab to fab

5 Objectives

- 1 Reinforce design capacity by providing a **virtual design platform**
- 2 Enhance existing and developing new **pilot lines**
- 3 Accelerate the development of **quantum chips**
- 4 Expand **skills** and set up a network of **competence centres**
- 5 Facilitate SME access to **equity and loans** through a dedicated **Chips Fund**

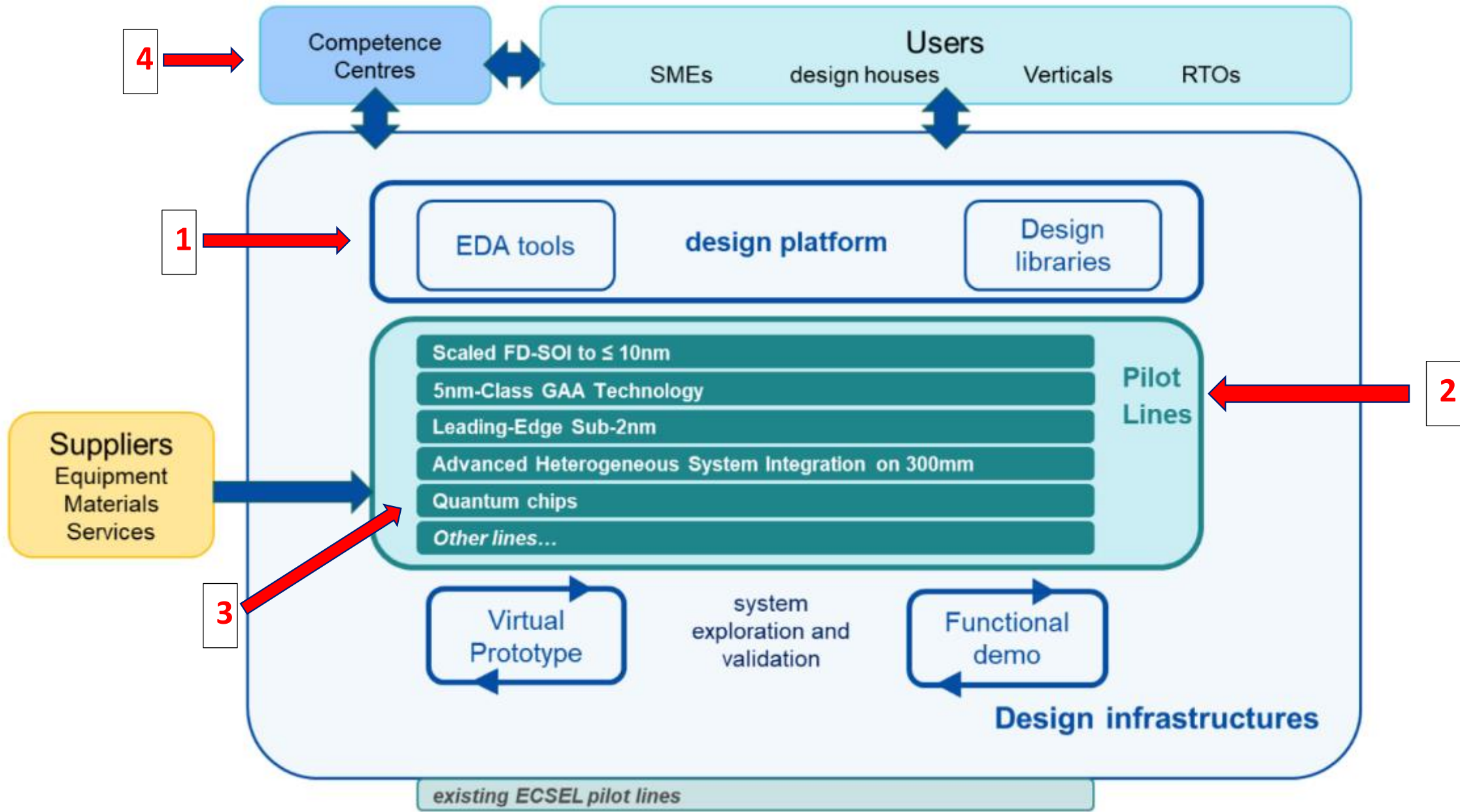
Chips JU

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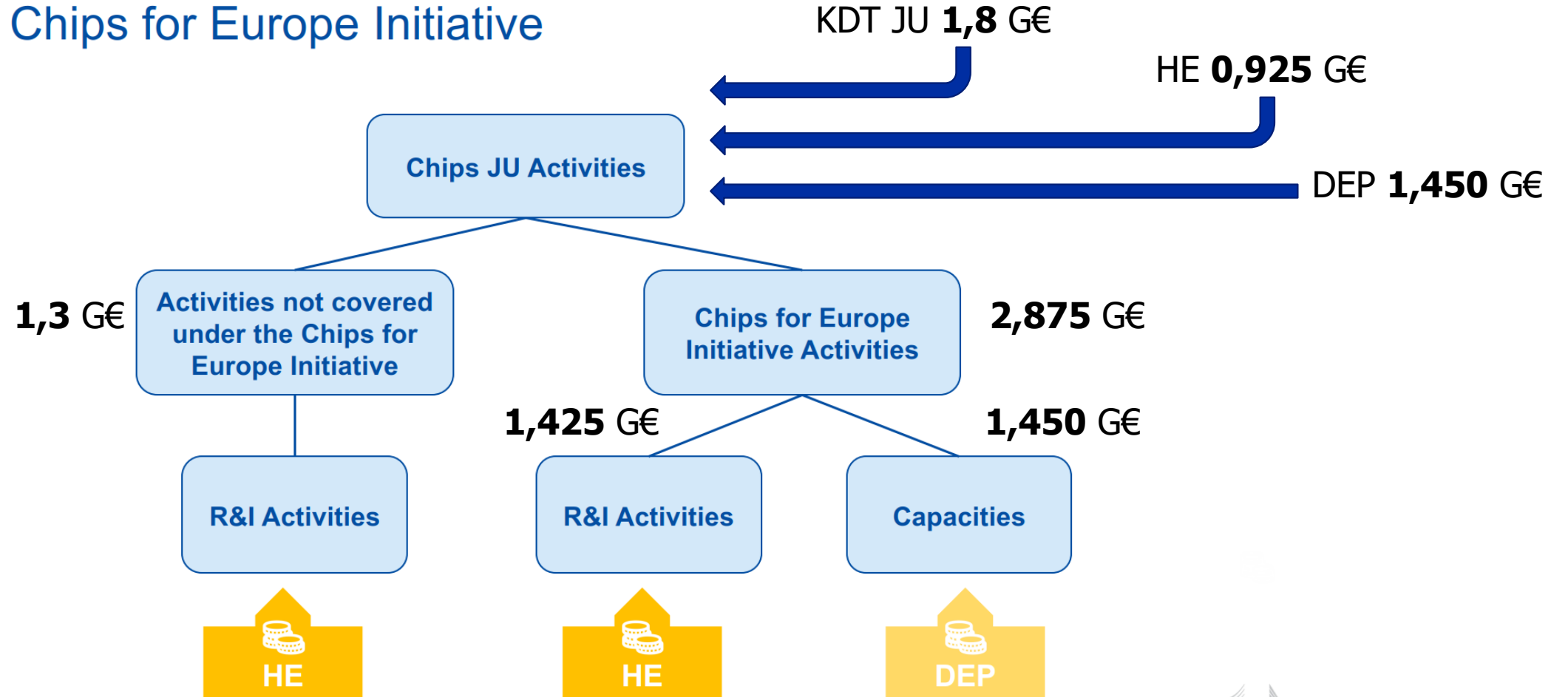
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“Chips JU” Activities

Chips for Europe Initiative



EU Chips Act and national funding

- EU does not have “fresh money” for the new expenses of the Chips Act
- EU funding comes from other parts of the MFF funds (2021-2027 and 2028-2035)
- Member states (MS) need “fresh money” commensurate to EU funds (1:1)
- Division of costs between EU and MS:

| <u>Target</u> | <u>EU %</u> | <u>MS %</u> | <u>Industry %</u> | |
|--------------------|-------------|-------------|-------------------|----------------------------|
| Design platform | 100 | 0 | 0 | |
| Quantum chips | 50 | 50 | 0 | |
| Competition center | 50 | 50 | 0 | EU max 1 M€ / member state |
| Pilot lines | 50 | 50 | in-kind | |
| Fabs | 25 ? | 25 ? | 50 ? | |

? = pure guess, not even a civilized one

Possibilities for Finland

- Competition centers: one (or more) per MS, only one organization receives COM funding.
- Possible FI expertise: Quantum chips, photonics, sensing (incl. MEMS), radio frequency technology (RF), System circuits (SoC, SiP), atomic layer deposition (ALD), printable electronics
- Pilot lines (PL):
 - Call for Expression of Interest launched before end of year, for 4 or 5 PLs
 - Costs: CAPEX, setup costs, only limited OPEX
 - Selection by summer 2024
 - Ownership of equipment: Chips JU 50%, MS 50%
- Some first-of-a-kind fabs have been notified already (none in Finland)
- Finland is probably able to fund the commensurate part of the Chips Act

Thank You!

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