

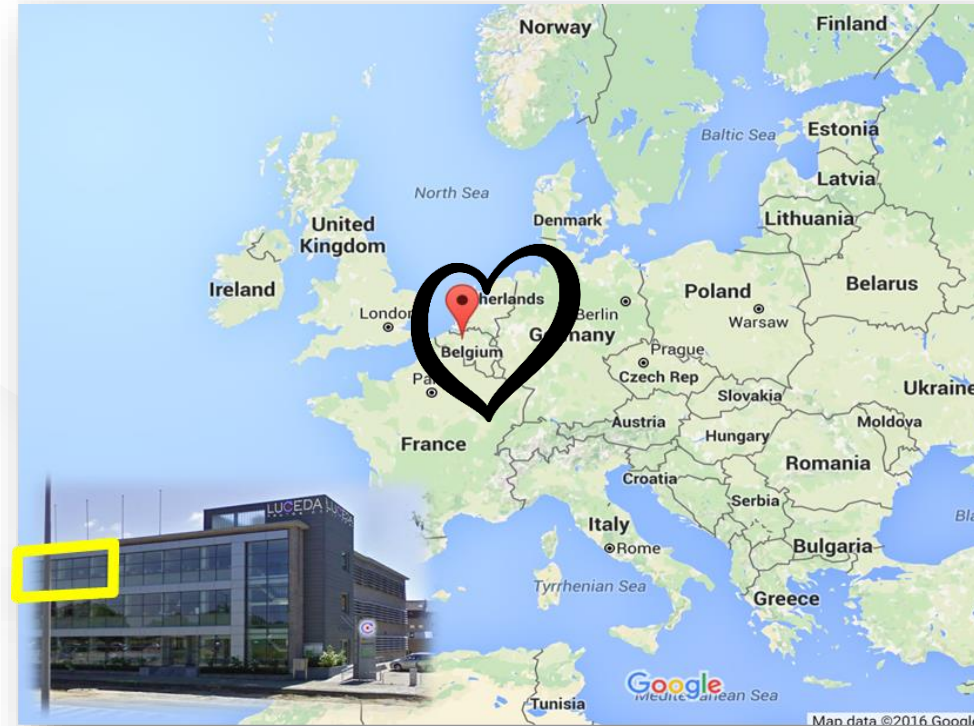
New product release Lucedada Photonics

EPIC Members New Product Release
2nd February 2021

Martin Fiers – Chiara Alessandri

Luceda Photonics

- Founded in 2014
- HQ in Belgium

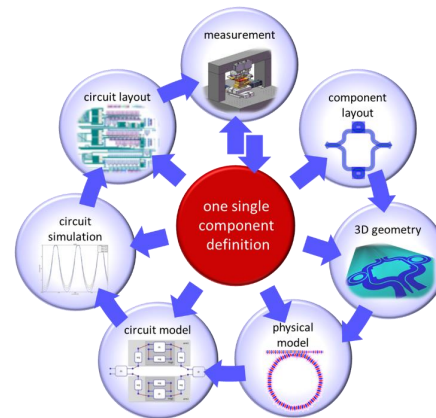


“Help photonic IC designers enjoy the same first-time right experience as electronic IC designers.”

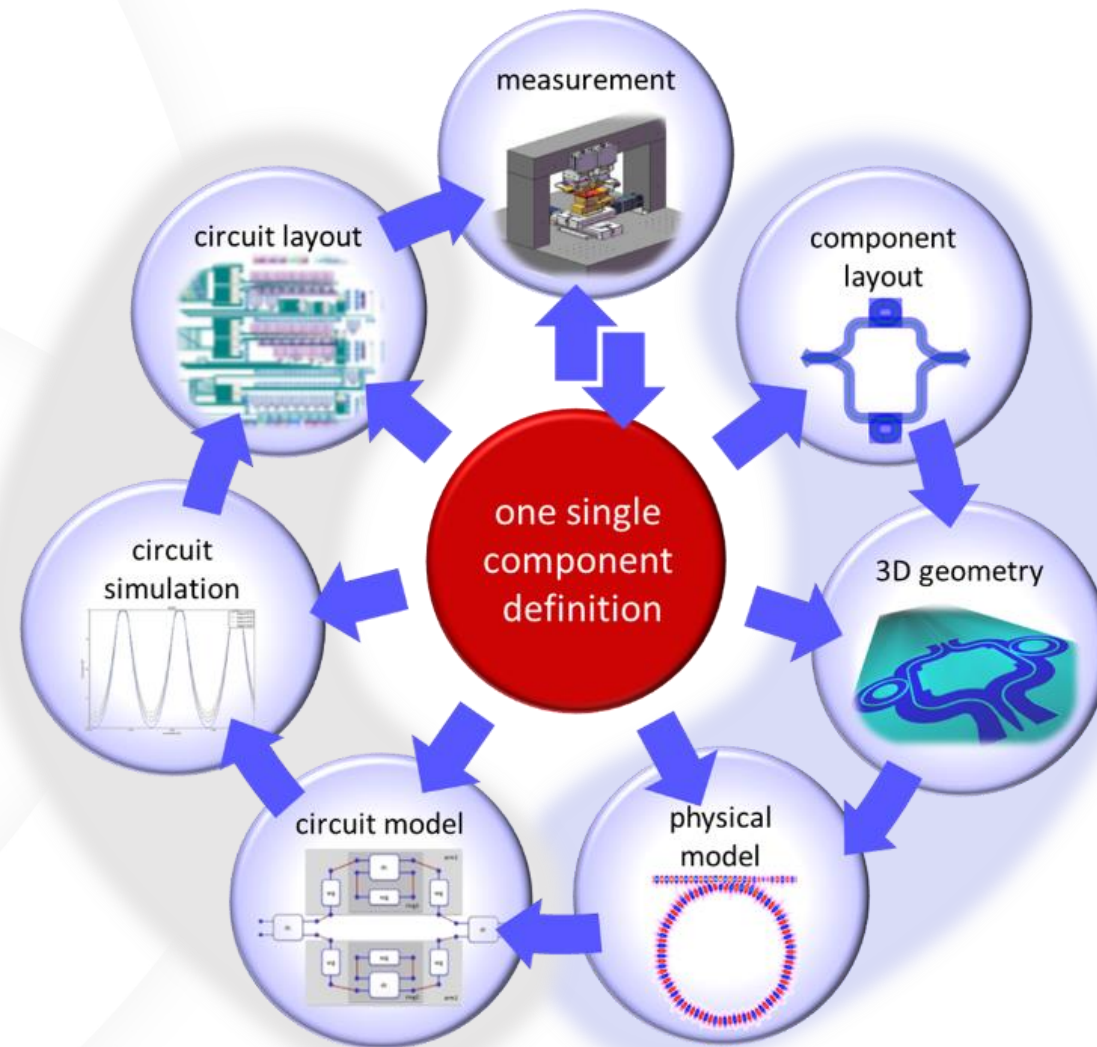
Luceda Photonics

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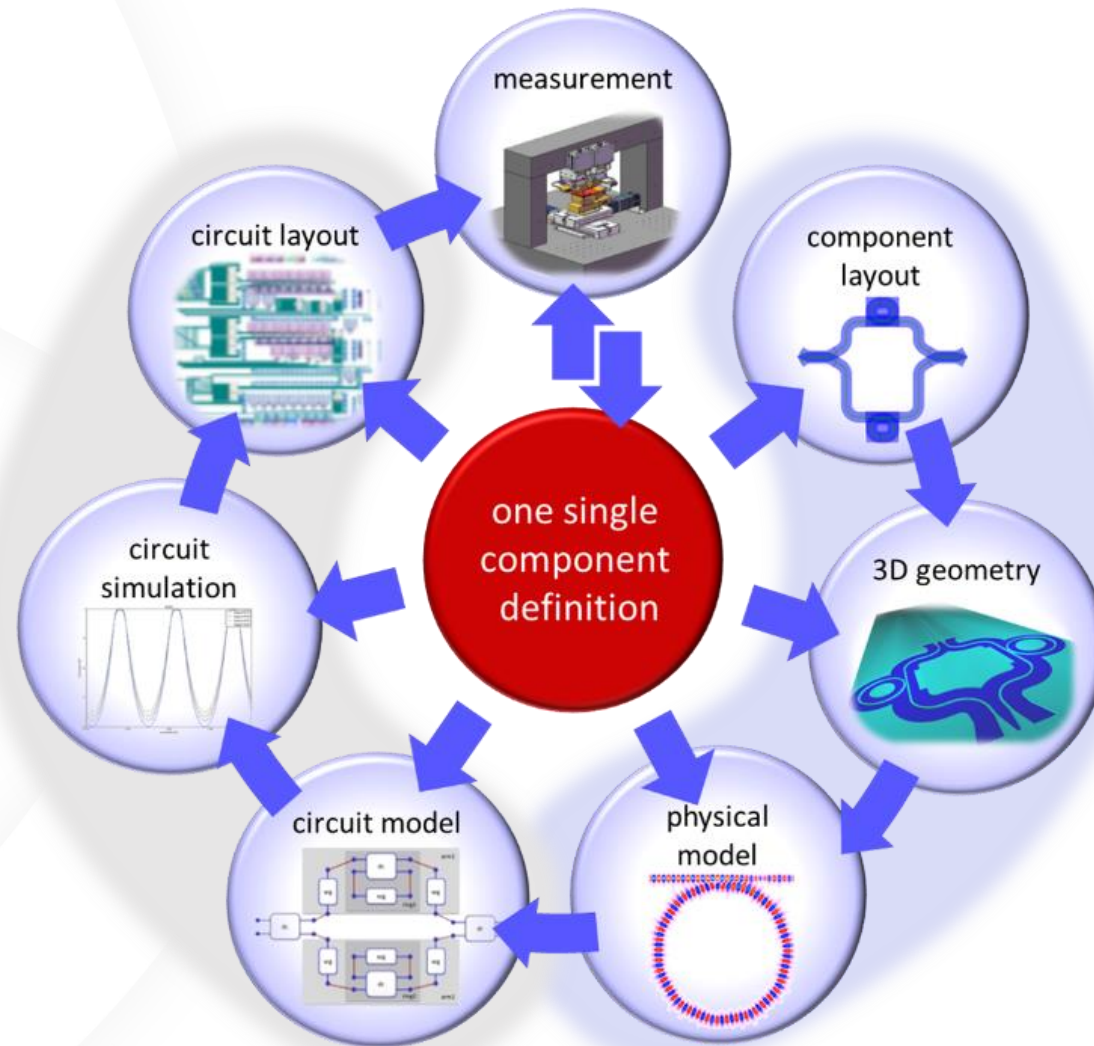
IPKISS Photonics Design Platform



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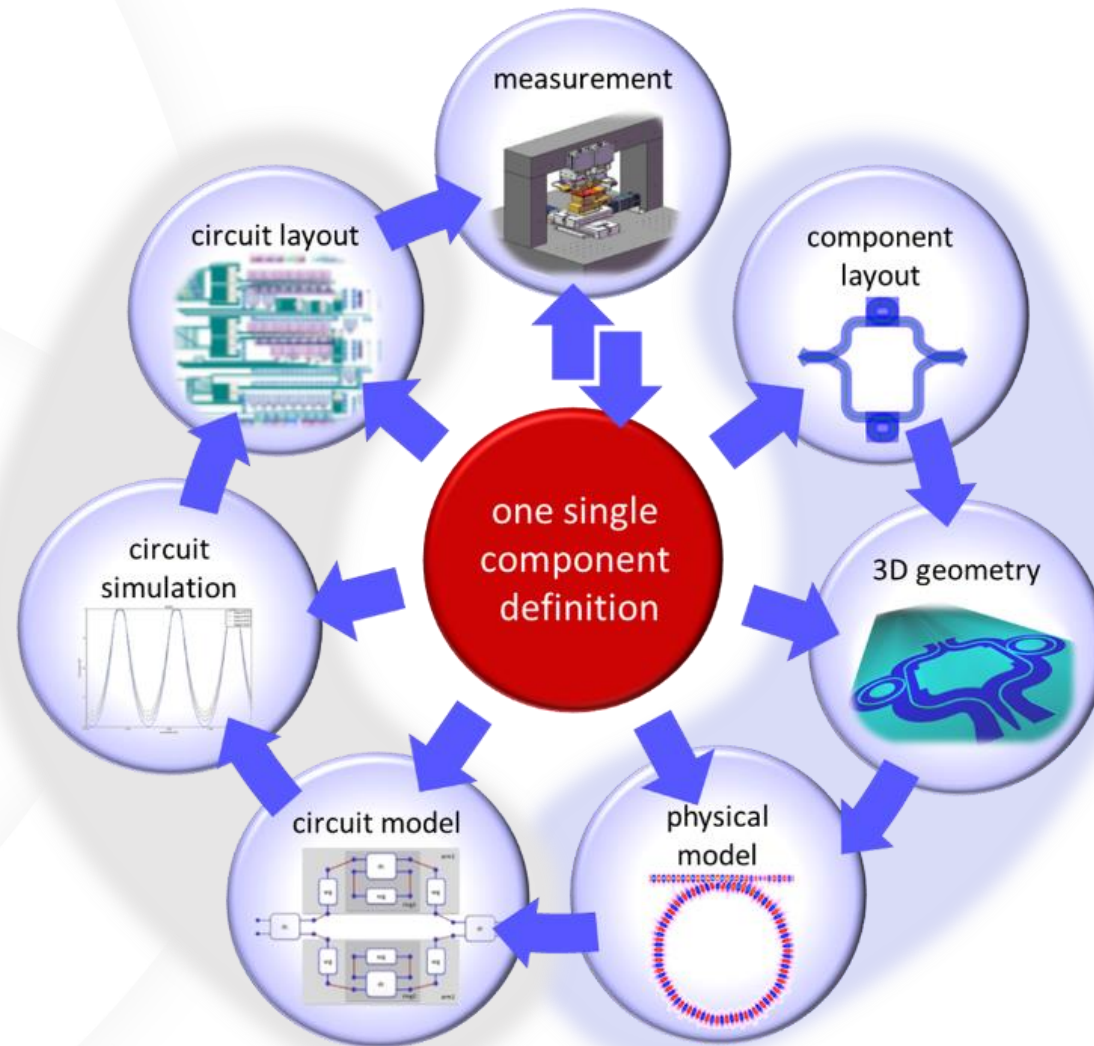


 IPKISS: layout

- Parametric components



IPKISS Photonics Design Platform



IPKISS: layout

- Parametric components



- Virtual fabrication



IPKISS Photonics Design Platform



IPKISS: layout

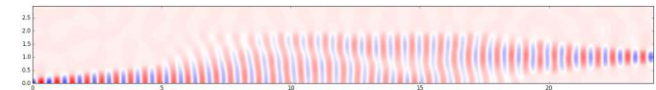
- Parametric components



- Virtual fabrication



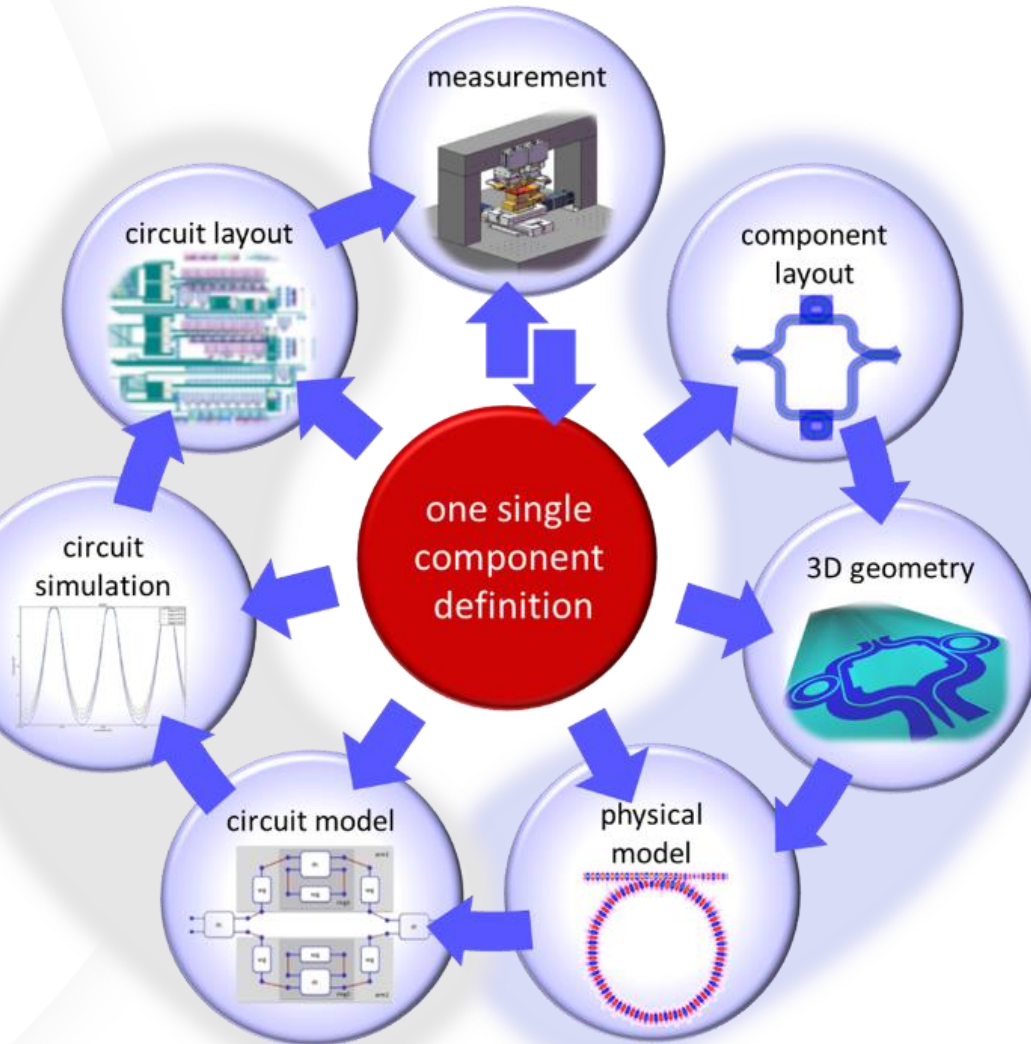
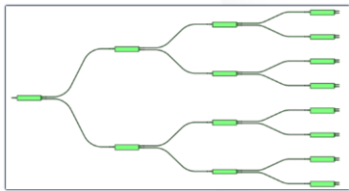
- Built-in physical simulations using CAMFR



IPKISS Photonics Design Platform

IPKISS: circuits

- CAPHE simulation engine
- Tight link circuit & layout
- Easy component validation



IPKISS: layout

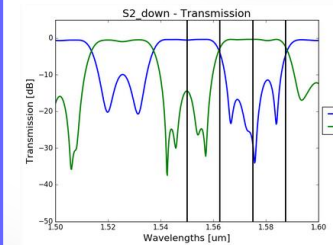
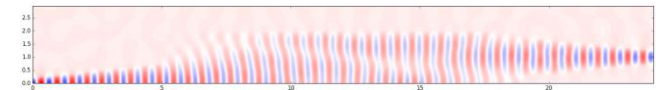
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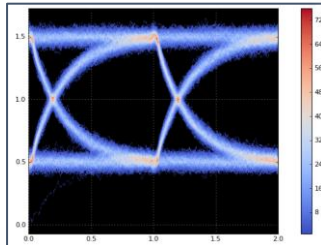
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- Built-in physical simulations using CAMFR



Frequency domain



Time domain

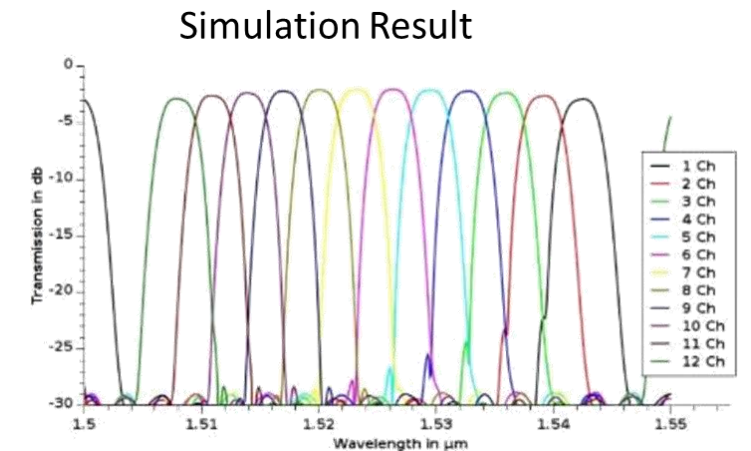
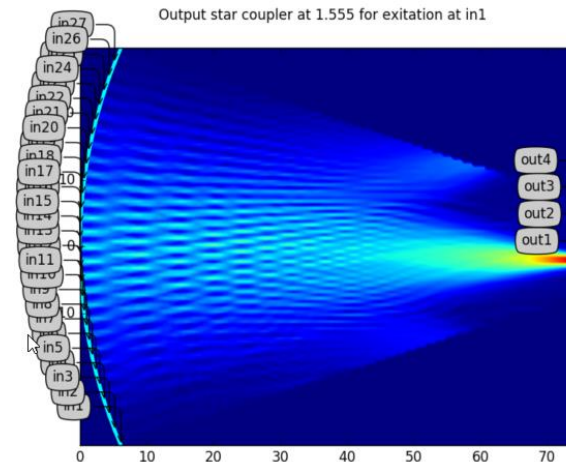
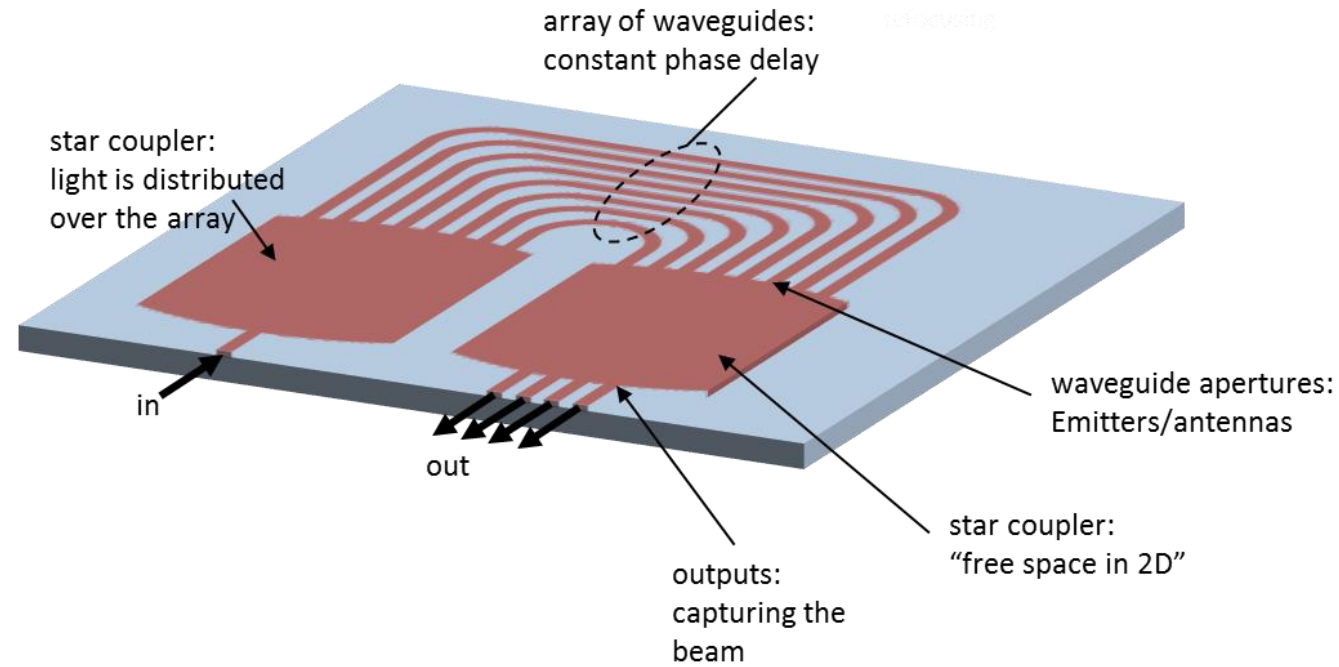
IPKISS PDKs

- Vast offer of PDKs from foundries around the world
- We build your PDK
- We support you to build your own PDK or libraries



IPKISS AWG Designer

- Easy layout + simulation
- Flexibility to try out various configurations
- From spec to DRC-clean devices, ready for tape-out



IPKISS Links

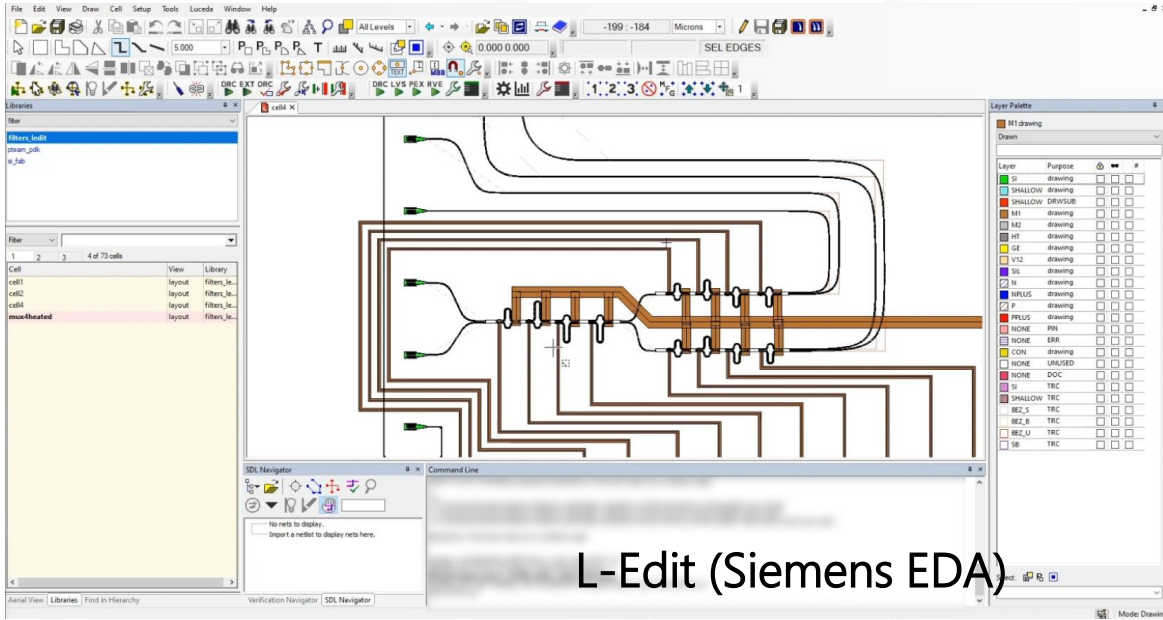


Simulation links

- Physical simulations:
CST Studio Suite and Ansys Lumerical FDTD



- System-level simulations:
VPIphotonics



L-Edit (Siemens EDA)

What's new?



 IPKISS 3.4

Focus on
IPKISS.eda

 IPKISS 3.5

Focus on
IPKISS AWG Designer

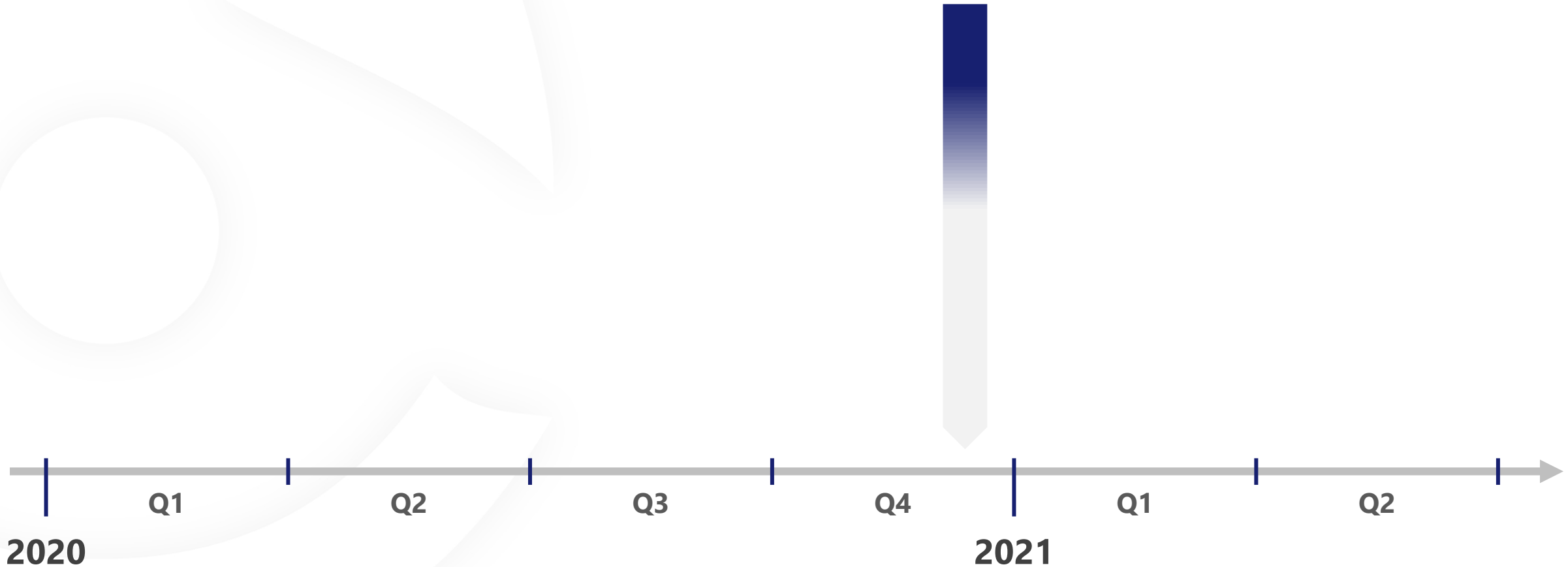


2020

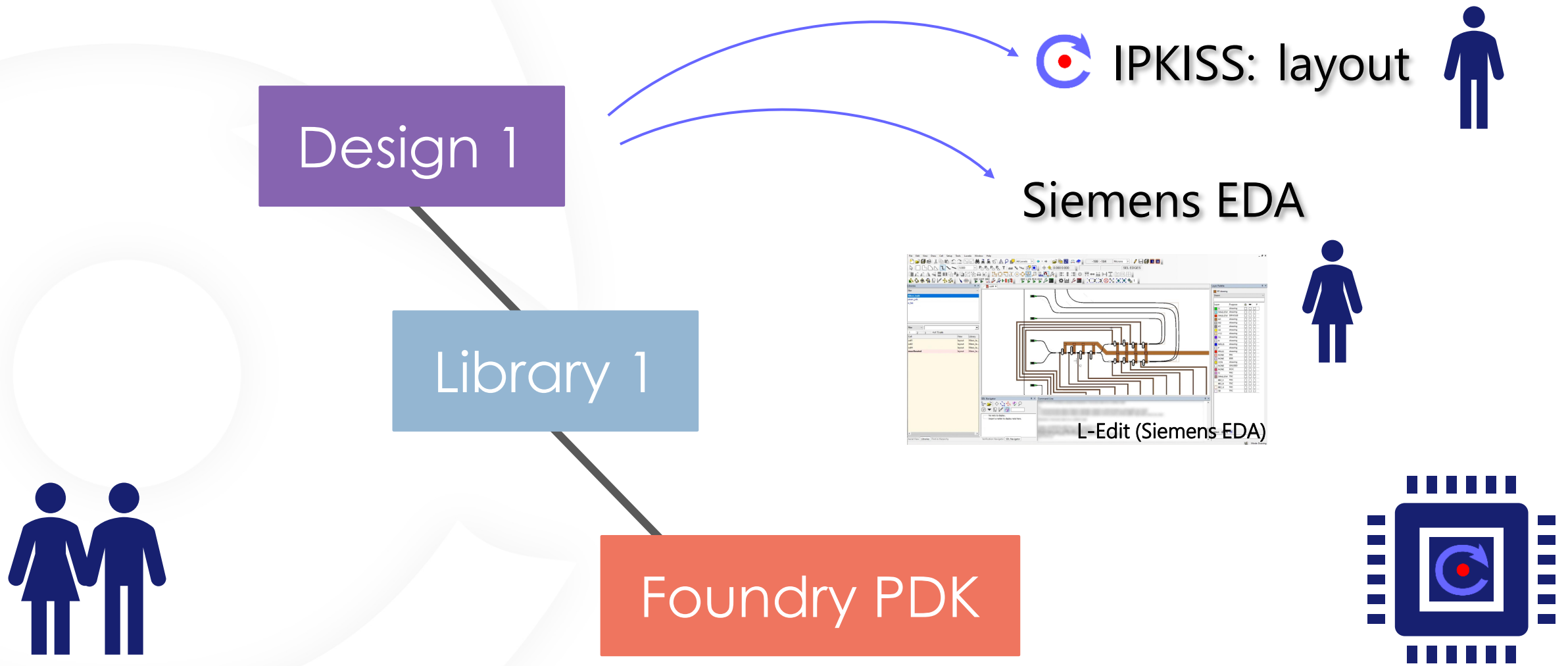
2021

Highlight: IPKISS 3.4

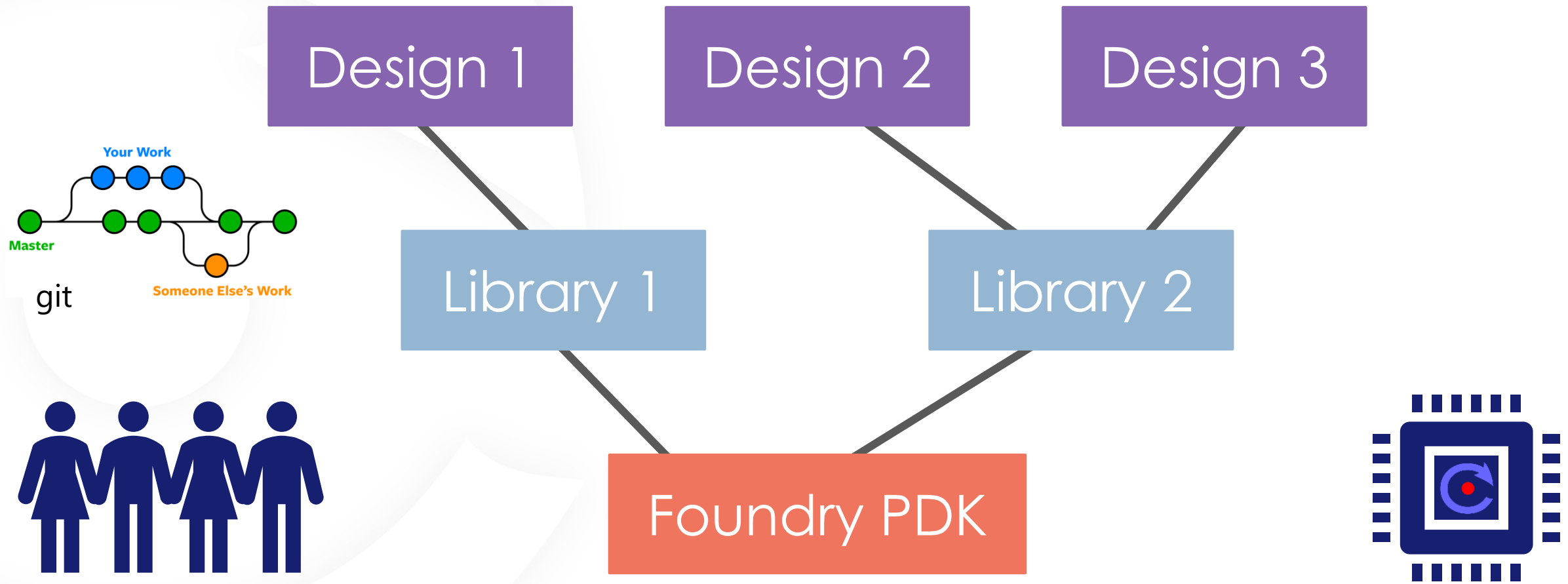
 IPKISS 3.4
Focus on
IPKISS.eda



IPKISS 3.4: the next step in IP creation and distribution



IPKISS 3.4: the next step in IP creation and distribution



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