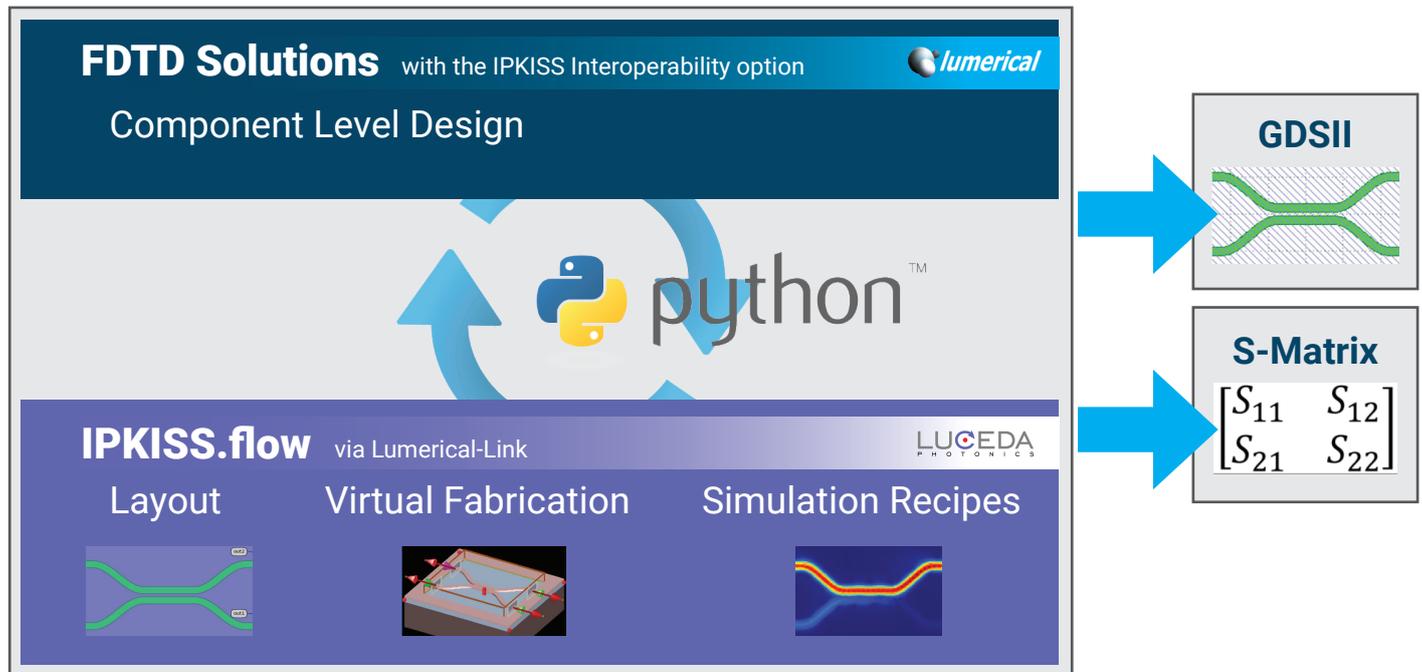


# Python-based Component Design Flow by Lumerical and Luceda

## Lumerical FDTD / Luceda IPKISS Interoperability

Lumerical and Luceda partner to offer a fully integrated Python-based component design flow including component layout, virtual fabrication, physical simulation.



## Benefits and Features:

- Python integration of Lumerical’s FDTD Solutions and Luceda’s IPKISS.flow via IPKISS’s Lumerical-Link and Lumerical’s IPKISS Interoperability option.
- IPKISS simulation recipes use a virtually fabricated 3D geometry and automate the creation of the entire Lumerical simulation project associated with the PCell.
- Entire flow is specified entirely in Python and can generate matching GDSII and models that to be used further in Luceda’s and Lumerical’s design ecosystems.
- Optimize your design, generate parameter-sweeps, and take advantage of the many possibilities of Python including source-control and access to a rich set of open-source resources.

“At Ghent University we have been interfacing IPKISS and Lumerical for several years now and we are enthusiastically using it for both research and teaching. We are very happy to learn that there will be an official link between IPKISS and Lumerical, and we’re looking forward to enjoy the benefits of this collaboration.”

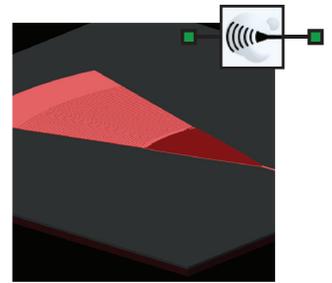
Prof. Wim Bogaerts  
Ghent University

## Lumerical Inc.

### Comprehensive suite of photonic design tools

“Integration with Luceda is a consistent request from many photonic component design customers. This integration with Luceda, a leader in Python-based mask layout of photonic designs, expands the ecosystem for designers using familiar tools, and further demonstrates our commitment to the Python community.”

Dr. James Pond  
CTO, Lumerical



## Luceda Photonics

### Python powered platform for photonic design and photonic PDKs

“We are really excited about our new collaboration with Lumerical. We are particularly thrilled about using Lumerical’s Python API. IPKISS fully embraces the Python ecosystem and through this new link Lumerical and Luceda Photonics provide the first complete design platform that is completely scriptable from Python.”

Erwin De Baetselier  
CEO, Luceda Photonics

