

The Photonic Design Workflow

EPIC Online Technology Meeting on Hybrid PICs

Chris Maloney, Director of Business Development

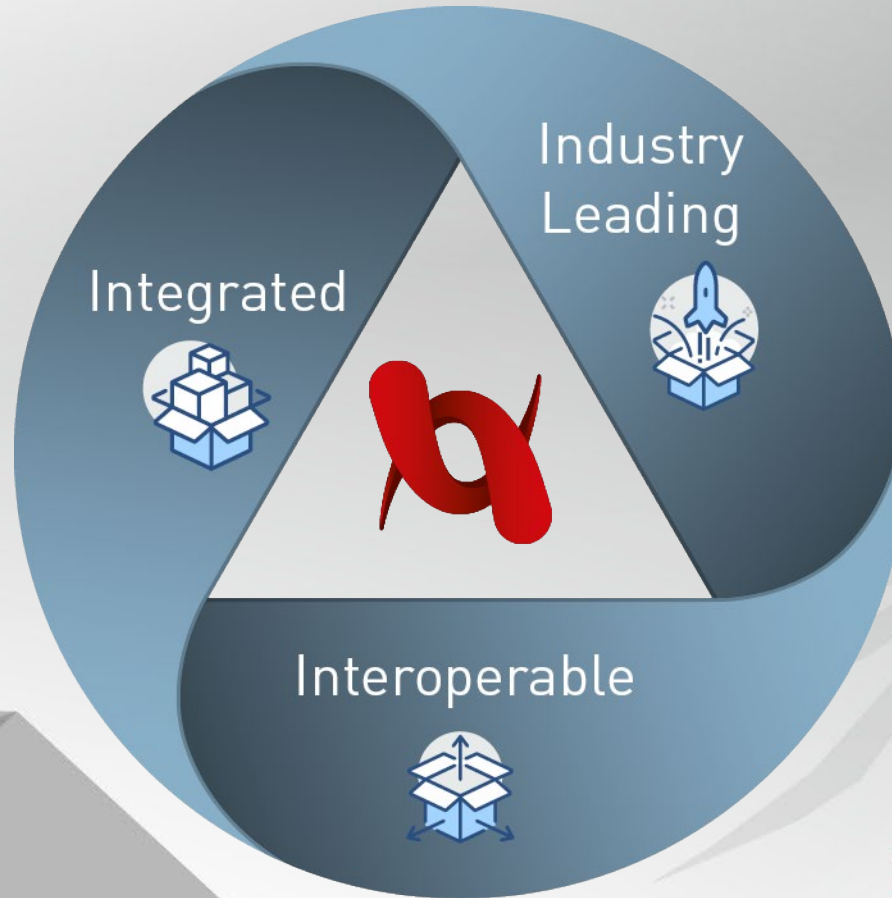
4 April 2022



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define the cutting edge.

SOFTWARE AND SERVICES

for Photonic Design & Analysis

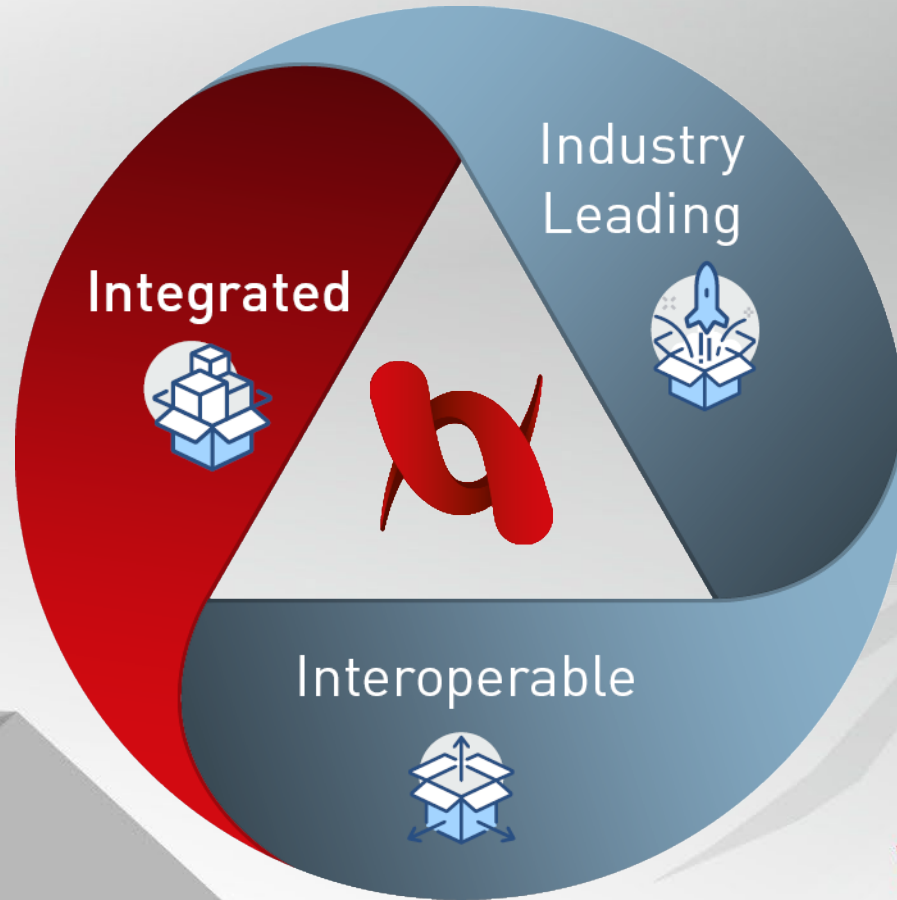


- ➔ Market leader with 20+ years of experience
- ➔ Regional offices in Europe and North America
- ➔ Global network of resellers and representatives

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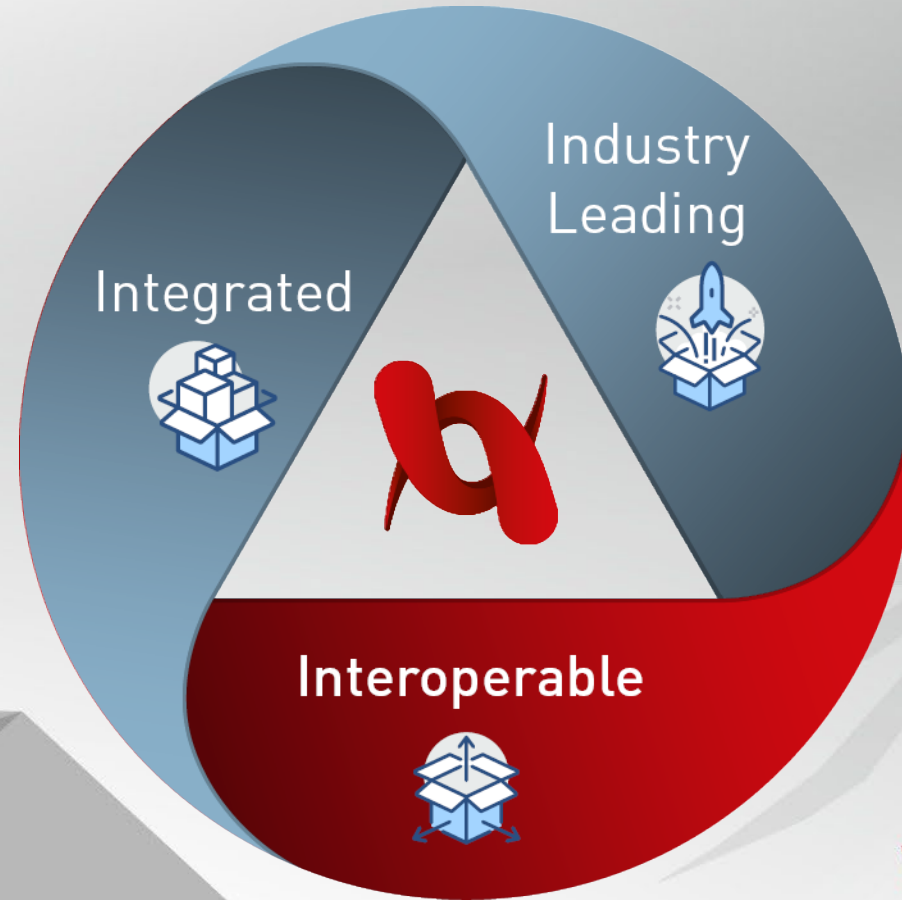


- ➔ We **integrate** efficient simulation techniques and professional design functions for devices, components and systems.

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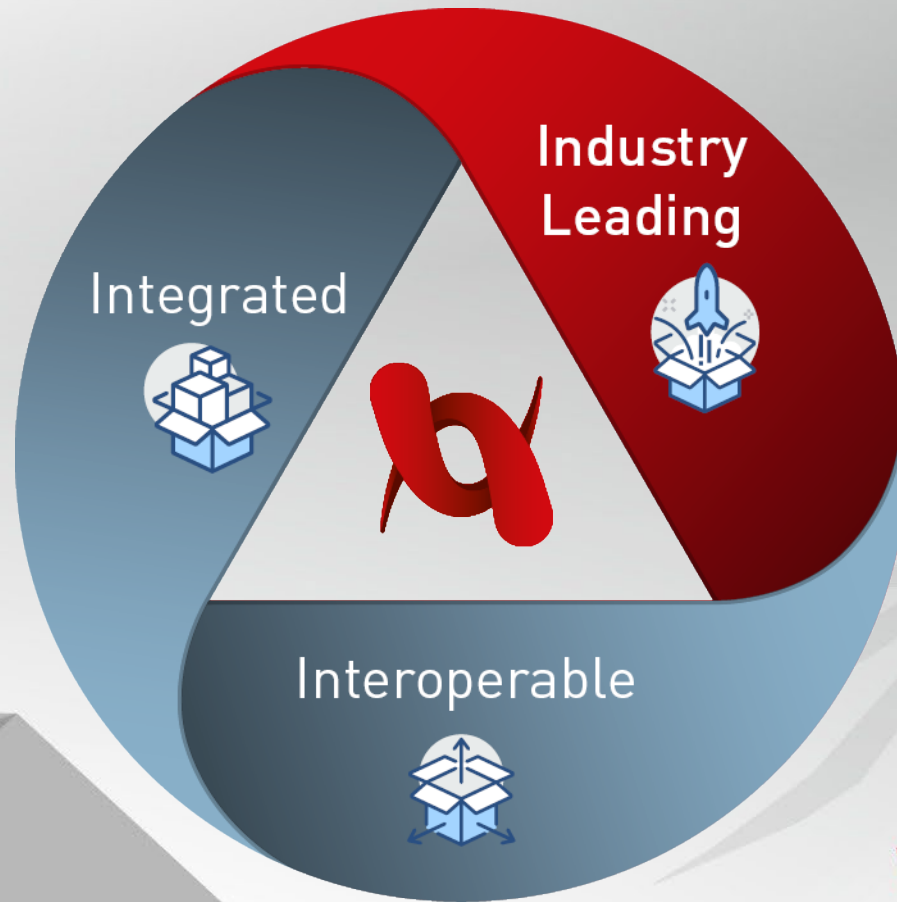


- ➔ We enable **interoperability** with 3rd party simulation, design and programming software, and test & measurement equipment.

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SOFTWARE AND SERVICES

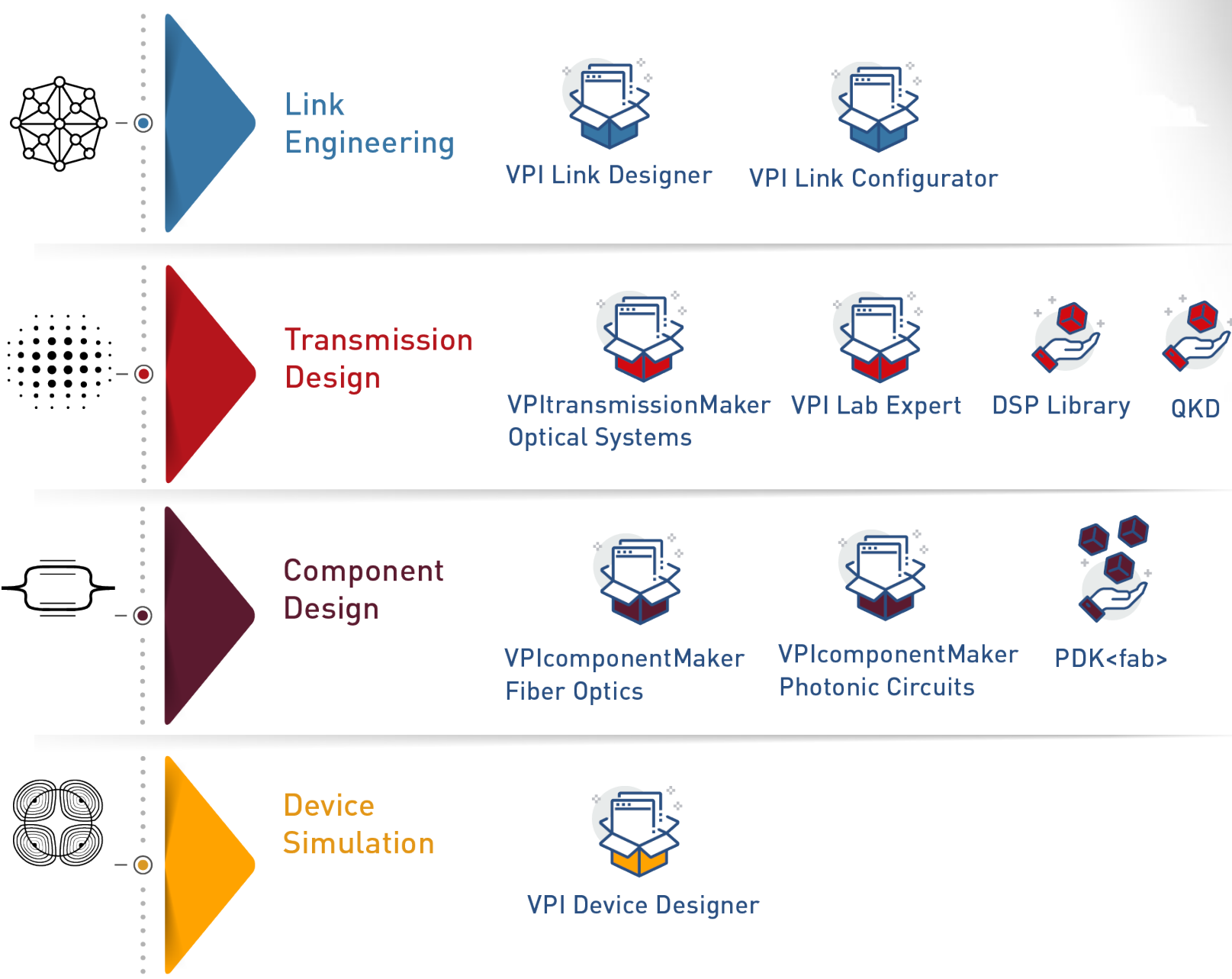
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- ➔ We seek **industry leading** solutions to chart new frontiers via forward-looking industrial and research collaborations.

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Software Solutions

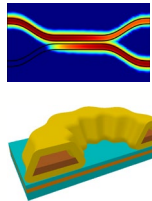


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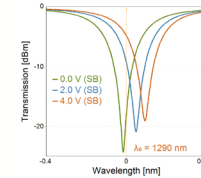


VPIphotonics Design Suite

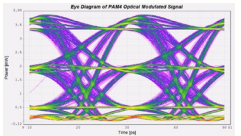
VPIdeviceDesigner



VPIcomponentMaker
Photonic Circuits



VPItransmissionMaker
Optical Systems



VPItoolkit PDK
<foundry>



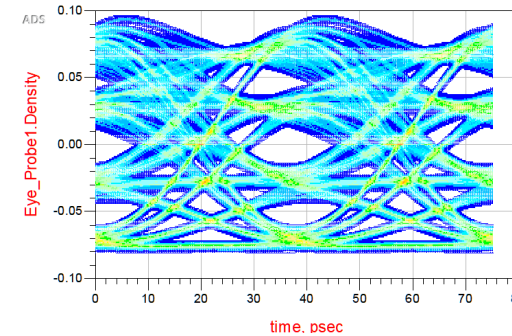
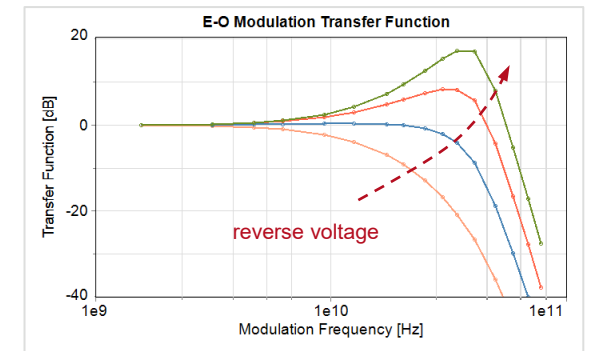
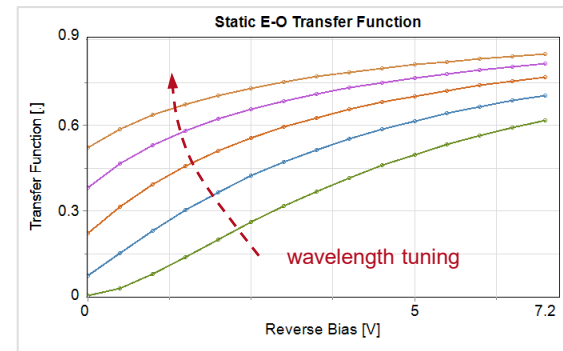
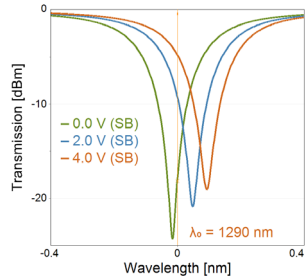
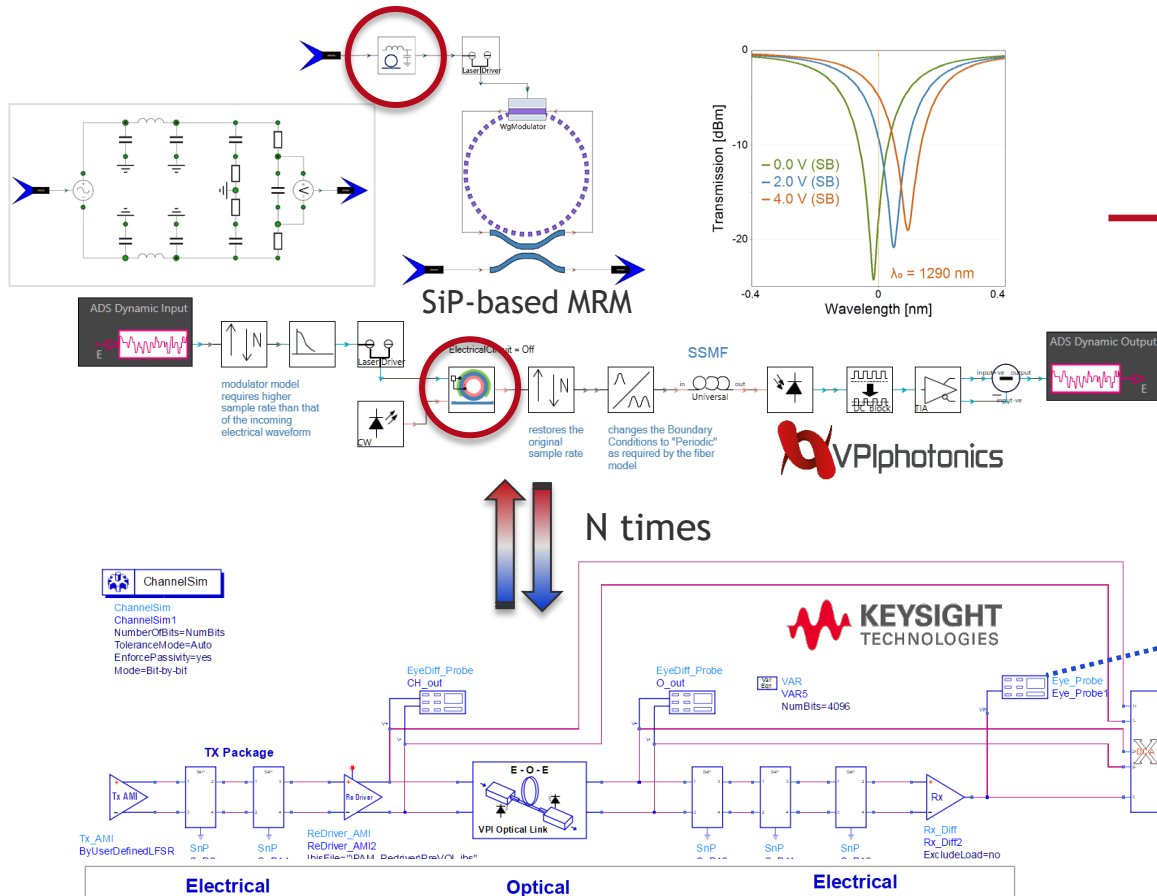
Layout
Design Tools



Electrical/Optical
Co-Design



26GB PAM4 Link - Impact of SiP Micro Ring Modulator (MRM)



- MRM has nonlinear static and dynamic transfer function!
- ⇒ Leads to level-specific ISI
- ⇒ Requires NL equalization

What can we do for you?

- Provide photonic design solutions to efficiently take your ideas to reality
 - With support along the way!

What can you do for us?

- New partnerships/collaborations
 - Foundry/PIC platform PDKs
 - Use cases
 - Hybrid PIC designs
 - Electrical/Optical Co-Design



Contact us for a free demo
and software evaluation!

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