



# Low loss PICs: From fast prototyping to high volumes

Simplify the access to PIC technology

# Seamless journey from Idea to Volumes



## Entry: R&D & Prototyping

*Open access, low barrier*

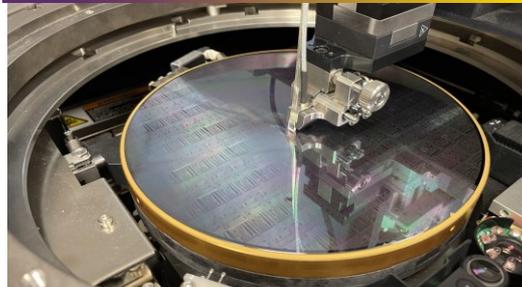


### Fast prototyping

- Established technology
- Fixed layer stack
- Extensive PDK
- **Regular MPW runs**
- Custom runs
- Design / layout support
- Characterization
- Packaging support

## Optimize: Development

*High flexibility & competence*



### Custom PIC Developments

- Engineering studies
- Layer stack adaptation
- Custom integrations

### Ligentec Labs

- Early technology access

## Manufacturing: Supply

*Quality and guarantee*



### Pilot Fabrication

- Pilot and niche quantities

### Volume Fabrication

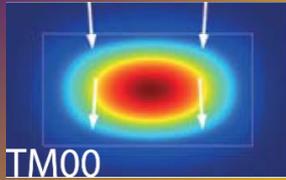
- Large volumes
- High-capacity wafer fab
- Fully automated testing
- Automotive quality system

# Summary

## Low Loss SiN - Platform Overview

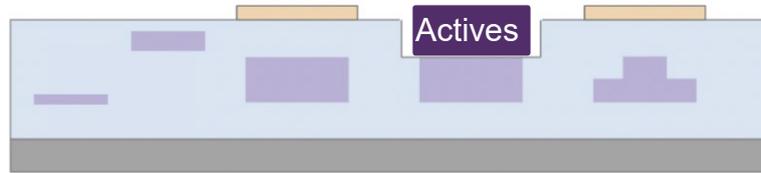


Low loss waveguides  
( $< 5$  dB/m)

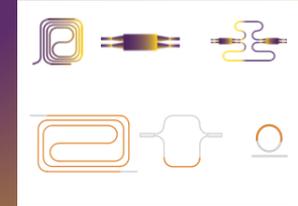


MPW / Dedicated runs  
Short turn around

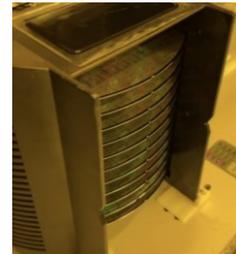
Flexible R&D line  
Volume line



Extensive PDK



Actives Integration



Low loss optical I/O  
( $< 1$  dB/facet)

