

NKT PHOTONICS Innosuisse projects





NKT Photonics

Ultrafast:

 Picosecond and femtosecond duration lasers for micromachining

Supercontinuum:

• 'White-light' lasers for microscopy, lithography and spectrometry

Single frequency:

 Narrow linewidth lasers for sensing and detection, and quantum









Why Innosuisse?

- Multi-national collaborations are difficult to establish entering existing value chains
 - A trusted institution can bridge the trust gap
 - Partial funding can make commercially risky projects more attractive to companies
 - Government support also allows collaboration with research institutes and universities
- NKT can gain access to state-of-the-art research in Switzerland
 - We have limitations in expertise and appropriate facilities





What is the plan?

- NKT has a bilateral agreement between NKT CH and KIMM to research efficient methods for laser lift-off on semi-conductor materials
- 1. CSEM will build a breadboard solution based on NKT's standard products
- 2. NKT will ruggedise the solution
- 3. KIMM will test the laser on the target application
- NKT gains a valuable relationship in East-Asia

