"you said" we did...

CORNERSTONE

66 A full pipeline of services: from idea to packaged prototype.

Broad fabrication support e.g. new materials, visible light applications, active-passive integration etc.

"

"

Market trends and roadmaps to show emerging applications.

Technical guidance on packaging, layout and design verification for PDKs.

A virtual community platform, with forums, wikis, case studies, directories etc.

Access to cleanrooms and labs.

Funding and investor introductions, mentors and help with pitch preparation.

Expanded training offering, including access to simulation tools, and technical and design support.

Networking events and matchmaking.

Links with large commercial foundries.

Industry and academic users took part in four workshops to discuss how we can support UK SiPh. We listened and acted.

Added packaging partners to our website.

Introduced visible SiN and currently working on adding other new platforms.

Endorsed the IPSR-I roadmap and facilitated UK input.

Began developing a technology roadmap.

Launched our open source PDK library

Scoped our Knowledge Hub, coming 2026!

Subsidised foundry access and the Innovation Fund.

Startup support programme launching October 2025.

Incorporated modularised PIC Bootcamp programme.

Launched Synopsys & Cadence training with STFC.

 Hosted annual user day and started members community.

 Actively connecting with large foundries identified in our survey. FOUNDRY

FORESIGHT

KNOWLEDGE

STARTUPS

TRAINING

NETWORKS

19

Insights from our user survey



Our online survey was open to all existing and prospective CORNERSTONE users during spring 2025. Participants shared their views on the future of our foundry, strengthening the ecosystem, startup support, and establishing a UK SiPh pilot line.

What do users want from the CORNERSTONE Foundry?

Q1. Which of our MPW platforms do

you plan to access before the end of 2026?

'220 nm SOI passives' was the most popular platform that users planned to access in the next two years.

Q2. What is the most important upgrade or new capability you'd would like us to offer in 2 years' time?

Popular responses:

- Integration e.g. III-V, lasers, detectors, modulators
- Platform improvements e.g. edge couplers, Ge, ultra-low-loss waveguides

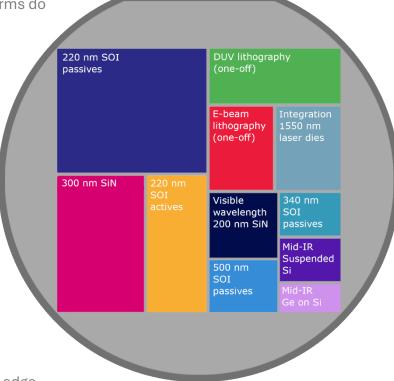


Fig. 1: Q1, size = no. of responses

- TFLN
- Visible photonics e.g. SiN for 8-900 nm light, 200 nm SiN



Fig. 2: Q2, size = no. of responses

How can we develop the UK supply chain? measure testing test and services assurance traceable industry programme metrology packaging measurement using metrology & testing for experience connections, startups design, integration nanostructure packaging and packaging photonic-electronic design, simulation, electronic integration egrat and packaging and measurement small scale, cheap packaging microfluidic industrial closer connection integration ort? packaging & w/ packaging collabs between heterogenous houses design and clinical/ integration networks packaging 0 how could you support the ecosystem? ethics online networking 0 houses interface working with participate in >EU S specialised partners to projects Ш training – bringing integrate and Z academics & contribute co-develop strengthen UK industry together 0 to university research RST training workshops engaging young business plan free/discounted talent in PIC Ш development training for supply training R partners on local marketapps/fundamentals training 00 orientated discounted of optical circuits support courses/services fab and hould improve fab > PDK maturity medical PIC and systems international device high performance tech experience competitors development building blocks S Ge wafers building blocks ctivities trapped-ion scaling ultra-pure access to tools for quantum water quantum help commercialise

start-up support use cases/impact promote SiPH for like ChipStart for public and high-precision policy makers seed funding devices and awareness quantum funding in UK raising marketing showcase experience outreach our PICs promotion

funding

capital projects w/

scaled production

line

hybrid photonics

on a commercial basis

a

what

computing specs

commercialisation

and start-up

experience

critical processes

visible photonics demos

commercial

development and

demos

treatment

equip

non-

standard

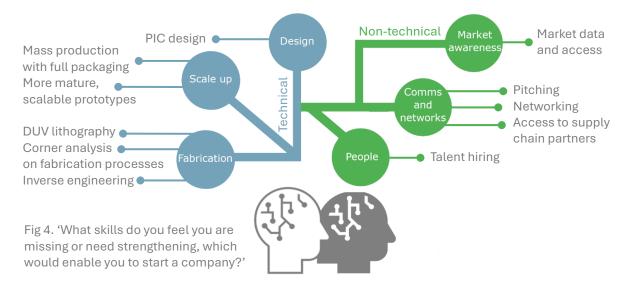
prototyping

Fig 3. Survey responses to the questions, 'what kind of activities do you think we should support to help develop the UK silicon photonics supply chain?' and 'how could you contribute to building the UK silicon photonics ecosystem?'

How can we support our start-up users?

CORNERSTONE

Users would like to develop a range of skills to help their start-up journey:



What would a UK SiPh pilot line look like?

Users' comments what the scope of a UK SiPh pilot line should be converged on six categories. A future pilot line was also perceived to offer a range of benefits.

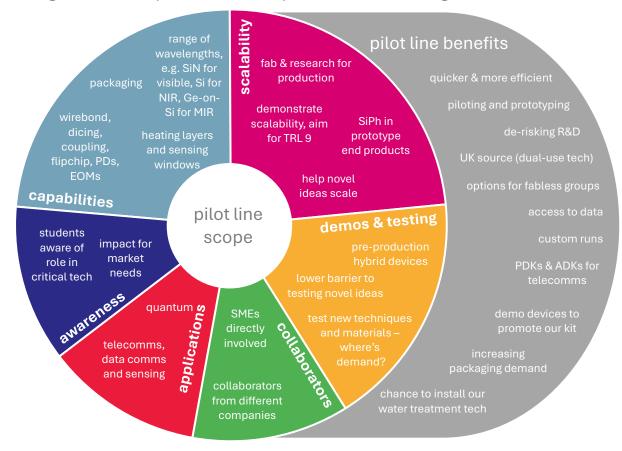


Fig 5. 'what should be the scope of a UK SiPh pilot line?' and 'how would it benefit your organisation?'