

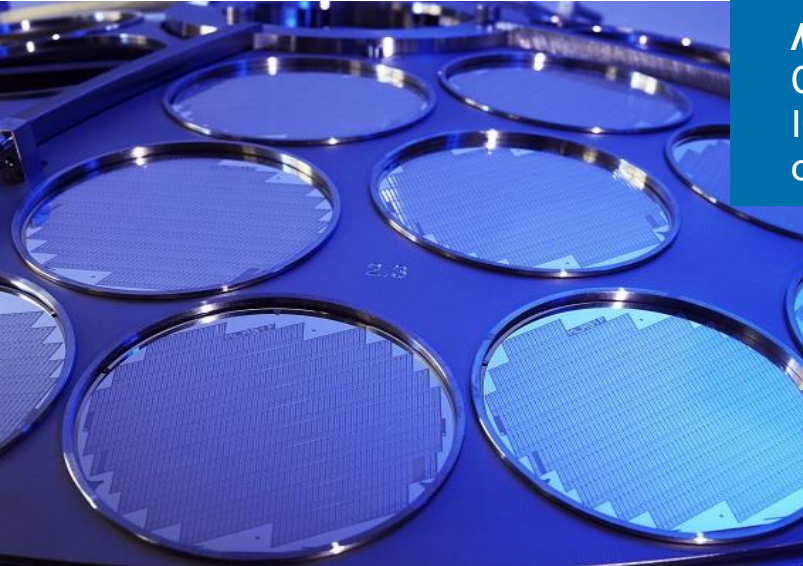
Project: Product Yield Improvement & Fab Operational Transformation

Location: Taiwan

Duration: 7 months

Most notable success:

One of the product yield gain by 80% after IGSS Phase 1 implementation without any capex spending



“IGSS team identified very quickly the key areas that need attention and how best to address them.”

Executive Vice President and Chief Operating Officer

“One of areas done well is to introduce FMEA (Failure Mode and Effects Analysis) which enables us to prioritise work easily.”

Operation Manager, >15 years in the company

Client Profile

Global provider of advanced technology solutions for communications and data connectivity, developing next-generation solutions in cloud infrastructure, wireless communications, routing, and fibre-to-the-premises applications. Their international operation includes specialised engineering teams with advanced expertise in optoelectronic devices, optical subassembly and module design.

Challenge

IGSS first project on Compound Fab (II-V) versus our vast experience in Silicon Fab instead.

Fab is being operate in R&D mindset with most SOPs basing on tribal knowledge which are not operational focus.

First to implement was a Structure Daily Operation Meeting with IGSS co-chairing the review.

Solution

After our 1st site visit, IGSS was clear that we need to focus on the followings to deliver yield breakthrough for client products:

- Quality Mindset
- Fab discipline
- Yield Management System
- SPC & FMEA implementation
- Operation SOP
- Capacity

Results

- **Recommendations:** Approx. 86 proposal were generated covering equipment, process and operation SOP improvements
- **Fab Operation Fundamental:** Initiated daily operations review, production meeting, tool controls, fab discipline protocol and bottleneck tool management
- **Yield improvement:** Product yield doubled with IGSS implementation
- **Financial impact:** Equivalent to US\$600K increase in Revenue per year per product