

EU PILOT LINE FOR INDIUM PHOSPHIDE PHOTONIC INTEGRATION

[InPulse](#) is the EC Manufacturing Pilot Line project for photonic integrated circuits (PICs) based on indium phosphide. InPulse enables TRL 7 development in a scalable design-kit-driven process, driving open-access InP PICs from proof of concept to industrial prototyping and pre-production. INCOM Partner Aarhus University leads the outreach to new markets and users, and interested parties are encouraged to contact Martijn Heck mheck@eng.au.dk.

PANEL DEBATE ON THE INTERNET'S RISING ENERGY CONSUMPTION

The Head of INCOM Steering Committee and prime investigator Prof. Leif K. Oxenløwe has been chairing a panel debate on 'The Internet's Rising Energy Consumption' during the two-day climate conference '[The Lost Decade? Planning the Future](#)'. Conclusions from the debate can be found below.

Panel members

- Leif Katsuo Oxenløwe, DTU (Chair)
- Dag Lundén, Telia Company
- Anders Andrae, Huawei Technologies (video presentation)
- Torsten Hasforth, Dansk Energi
- Mads Flarup Christensen, Greenpeace



Problem

The internet uses a considerable amount of energy, and the internet traffic is growing exponentially. Can we keep improving efficiency of ICT, so the total energy consumption does not explode?

Solutions

The panel agreed on:

1. Energy efficiency in ICT is very important – and relevant for policy makers to address.
2. Policy makers should introduce an energy-efficiency criterion on all new ICT equipment, before deployment is allowed, and insist on phasing out old inefficient equipment and networks. Existing parallel network infrastructure should also be questioned.
3. Regulate ICT-energy-consumption by the price on electricity – companies should pay the full cost of energy production as a minimum
4. Public institutions should only use green ict solutions, such as only use green cloud solutions (green data centers)
5. Research and development in the area of energy-efficient ict should be strongly supported
6. Key target areas: Research&development, Energy regulations, replacement of outdated infrastructure

JOIN THE EVENTS COMMITTEE!

For the spring and autumn events, we are looking out for members to join the planning committees. Come join one of the committees and influence the event programme. Dates for events:

- May 23rd , full day internal event at DTU
- October month, full day external event. Date and venue not yet decided

SHARED OFFICE WORKPLACE FOR INCOM PROJECT STAFF



The first shared office workplace for INCOM project staff has been put into service at DTU Fotonik this week. All partners are welcome to take advantage. Usually, if you have INCOM work in the test lab or in the NanoLab at DTU, it is often convenient also to have an office desk close by. Please contact the PMO for more information. First partner has already signed up and we have further seats available.

INCOM ADVISORY BOARD

Invitations for the INCOM Advisory Board has been sent out to the prospective Board Members. The intention is that the Board will act as the "Critical Friend" of the project and from a deep and long professional career give advices on a strategic level to INCOM.

NEW POINT OF CONTACT FOR THE TEST LAB

Starting from this week, DTU has added a new colleague to the INCOM team. Eder Ollora eoza@fotonik.dtu.dk is the new contact point when it comes to the practical aspect of the INCOM test lab. He will join the tasks related to setting up the lab equipment donation and assist partners working in the test lab. Please do not hesitate to contact Eder if you have any questions.

OSA FELLOWSHIP

The Head of INCOM Steering Committee and prime investigator Prof. Leif K. Oxenløwe has been awarded a prominent OSA Fellowship for his outstanding contributions to the harnessing of nonlinear optics applied to optical communications as energy-efficient light sources and ultra-broadband advanced optical signal processors. I.e. the award was granted on the work performed in the INCOM domain. Please join us in congratulate Leif for his fine achievement.



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