

# Key Enabling Technology **Photonics** Opportunities for Smart Regions

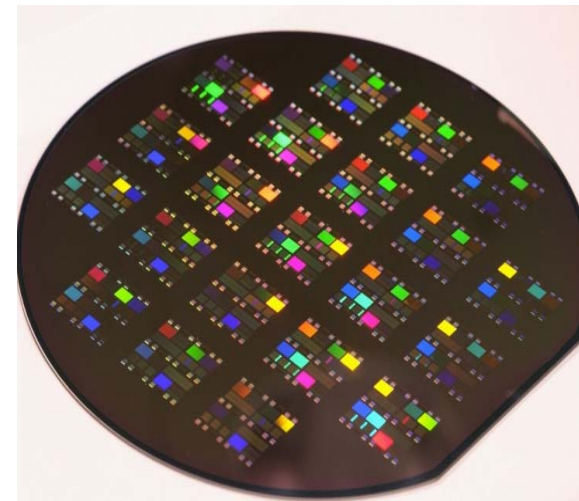
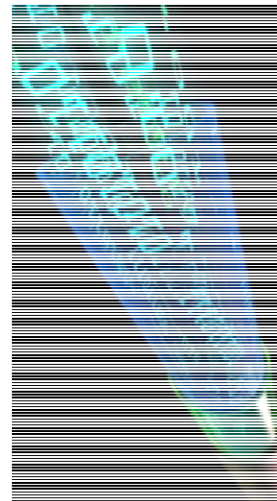
Vienna, 28<sup>th</sup> February 2017  
Bundesländerdialog BMWFW

# What is Photonics?

- Is the science on photon effects (e.g. light)
- Photonics bears the same relationship to light and photons as electronics does to electricity and electrons
- Is a Key Enabling Technology (KET)



Images from wikipedia.org, bri.ntt.co.jp, Softpedia News



# What does Photonics enable?

- Energy efficient lighting
- Renewable energy
- Consumer electronics
- Modern Medtech
- Flexible and efficient production
- High speed communication



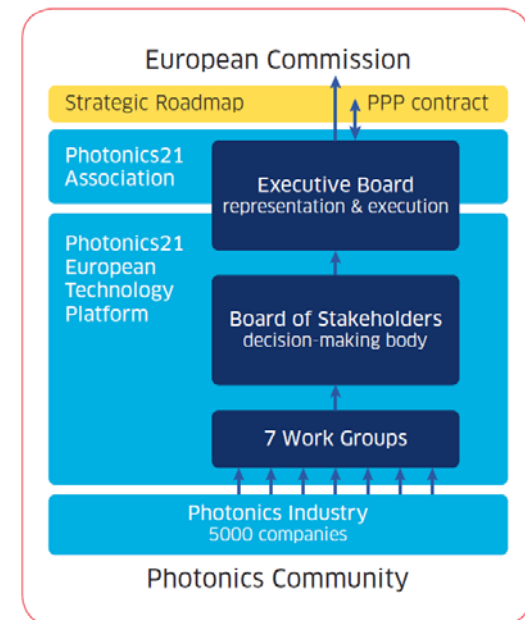
[www.photonics-austria.at](http://www.photonics-austria.at)



Image from electrooptics.com

# ETP Photonics21

- Photonics is a dedicated European KET for the 21<sup>st</sup> century
- **ETP → Photonics21**
- More than 2500 Members
- Active regional clusters and platforms
- Works together with **EPIC**



# Photonics Austria

- Platform for the promotion of photonics in the fields of:
  - » Economy
  - » Science
  - » Education
- Exchange between industry, research and teaching
- Established 2011 by an initiative of bmvit
- Currently > 30 members





# Members and Partners overview of Photonics Austria



[www.photonics-austria.at](http://www.photonics-austria.at)

# Active in European Projects Horizon 2020

## • EuroPho21



PHOTONICS<sup>21</sup>

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

- » Coordinates the European Technology Platform Photonics21

## • Photonics4All

Discover the Power of Light



- » is a European Outreach project to promote photonics and light based technologies to young people, entrepreneurs and the general public across the EU

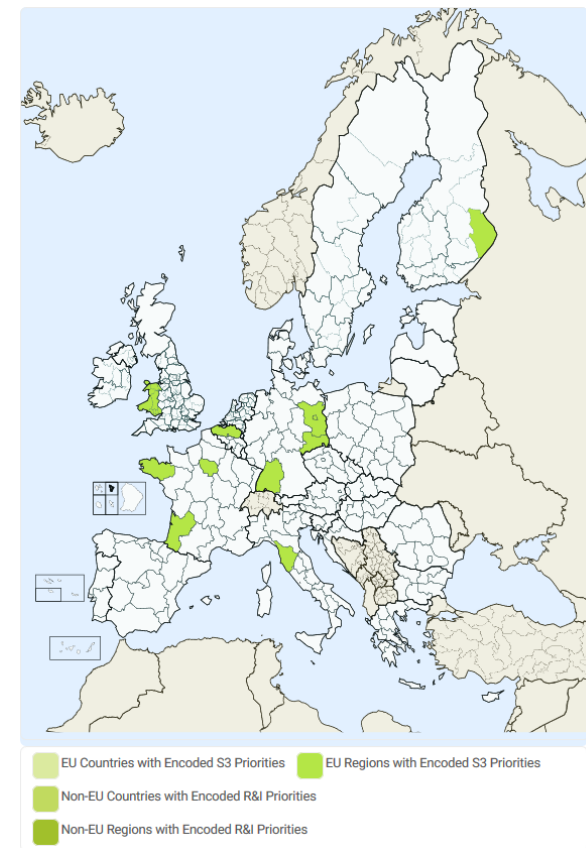
## • RESPICE SME

- » Promotes European SMEs in the field of Photonics



# Strategic Support: Photonics KET

- On European level photonics is supported in the frame of the H2020 program (ICT)
- Transnational Co-Fund Photonic Sensing coordinated by FFG (10 regions / nations)
- Currently 12 regions with Photonics KET S3 specialisation
  - » Not over-represented until now
  - » Opportunity for Smart Specialisation





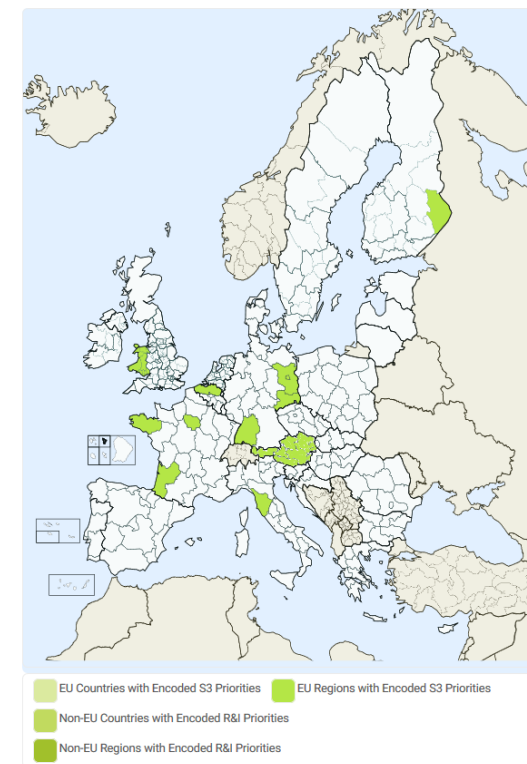
# Austria: A Photonics region?

- Strong Photonics competencies in Austria
- Proposed S3 specialisation in Austria:
  - » **Photonics KET for industrial modernisation**
- Option for sub-specialization in individual Austrian regions
  - » Photonics 4 Sustainable Energy
  - » Photonics 4 Industry 4.0



# Austria: A Photonics region!

- Development of a clear strategy on smart regional specialisation based on Photonics KET → Industrial modernisation
  - » Education (modern ICT, Green Photonics, smart laser production, ...)
  - » Shared infrastructure for modern process development (SME support)
  - » European support for infrastructure investments on pilot production lines
- Strategic cooperation with partner regions (e.g. Baden-Württemberg, Swiss Photonics, Photon Delta, ...)



# Contact

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