Key Enabling Technology
Photonics
Opportunities for Smart Regions

Vienna, 28th 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)
What does Photonics enable?

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

www.photonics-austria.at

Image from electrooptics.com
ETP Photonics21

- Photonics is a dedicated European KET for the 21st 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

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Members and Partners
overview of Photonics Austria

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Active in European Projects
Horizon 2020

- **EuroPho21**
  - 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

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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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