OPEN PICs WP1

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Work Package 1 - Market Demands

ID	Title	Responsible	Due Times
WP1.M1	Demonstrator definitions – linking products to building blocks	Weiming	Mar-17
WP1.M2	Survey of requirements and building blocks	Weiming	Nov-18
WP1.M3	Platform roadmap	Aura	Sep-18
WP1.M4	Key performance Indicators for MPWs	Aura	Sep-17
WP1.M5	Training and Outreach	Aura	Jun-17

M1 will be kind of touched by presentations from Technobis and Effect
M2 is the survey results
M3 would be the JePPIX roadmap
M4 is not done as far as I know
M5 was the outreach and training activities.

Conferences

- Promotion of OPENPICs in several events:
  1. PIC International 2017
  2. OFC 2017, workshop and expo
  3. ECIO 2017
  4. World mapping forum 2017
  5. Laser Munich 2017

Some scouting application areas

› user	› application
› IMT/CN →	› Tunable SI laser
› Telves →	› Direct modulated lasers + AWGs
› Huawei →	› RSOA
› Intel →	› PON, fiber to the home L band DWDM tunable source ms- µs, frequency accuracy

What MPW users frequently ask:

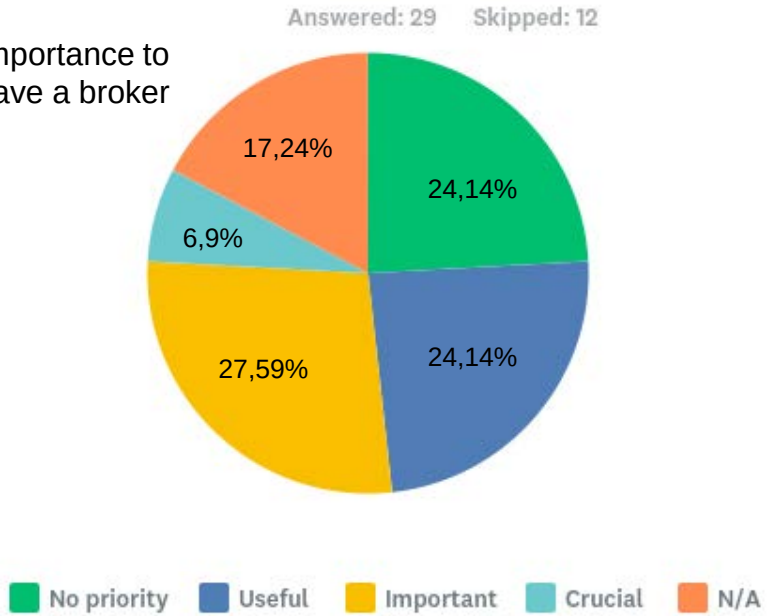
- Technical support in design
  - Feasibility of design
  - BBB performance
  - Design layout

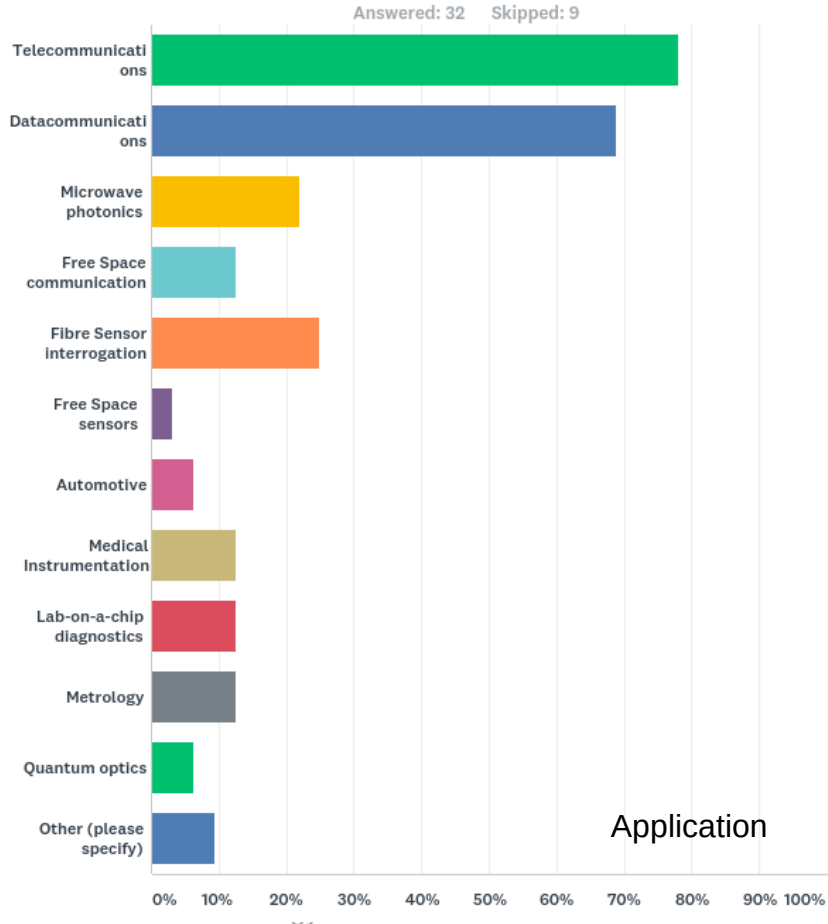
Statistics survey 41 experts in several PIC applications

Field of expertise:

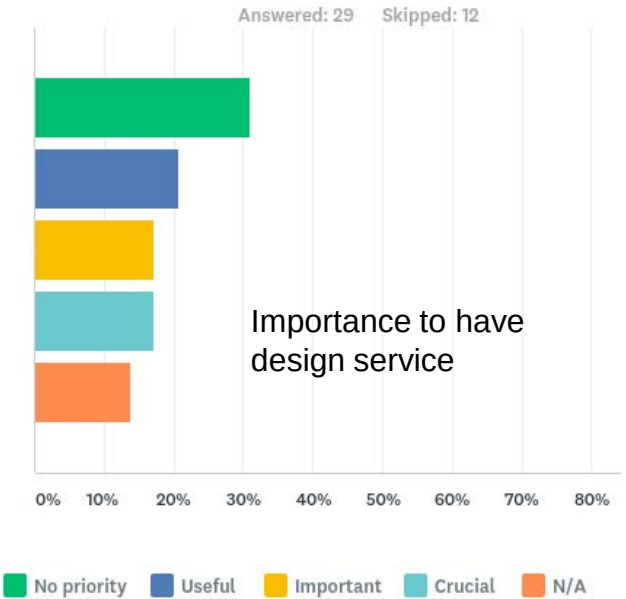
- 57,5% Research
- 32,5% Product development
- 5% Manufacturing
- 5% others (Networking, Ind. research)

Importance to have a broker

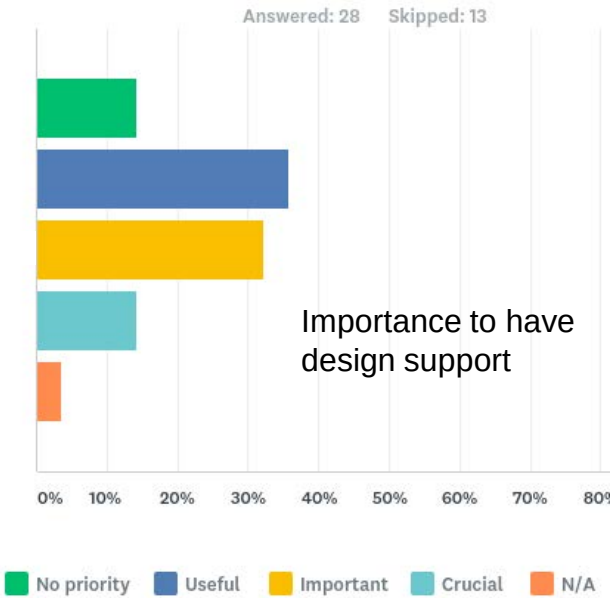




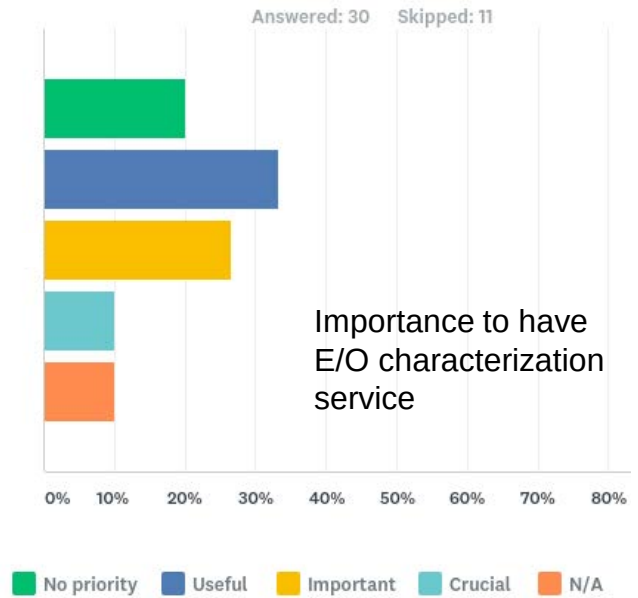
Desired services for PICs on generic platforms



Importance to have design service



Importance to have design support



Importance to have E/O characterization service

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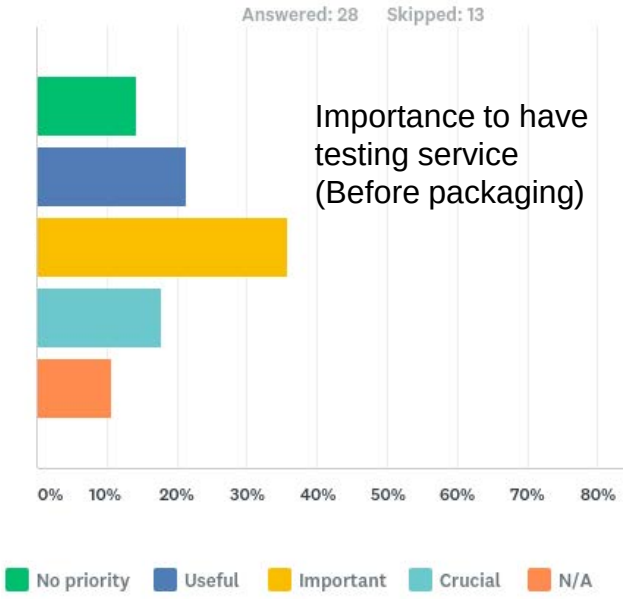
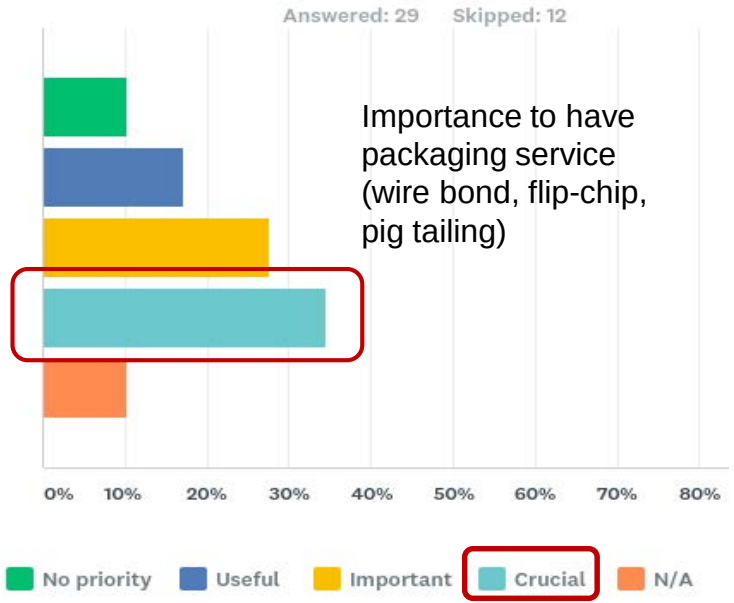
Desired services for PICs on generic platforms





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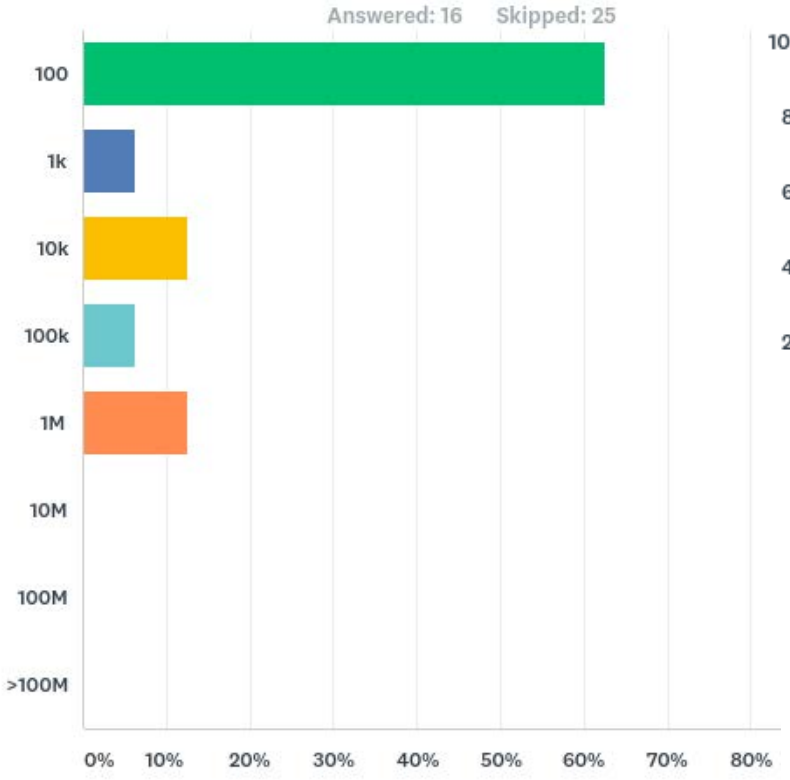
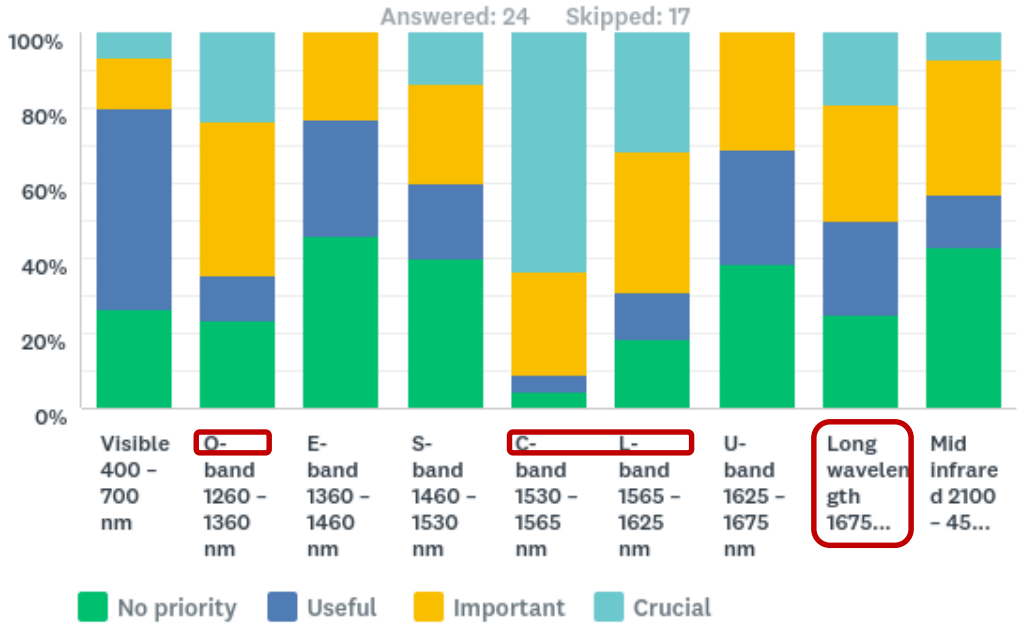
Components needed for potential users

- **Single WL laser module → crucial**
- **Tunable laser module → very important**
- WDM laser → not too much
- Pulse laser → not too much
- **SOA → crucial**
- Phase modulator → crucial
- EAM → good to have
- **MZM → crucial**
- **Detector → super crucial**
- MMI + reflectors → crucial
- **AWG → crucial**
- Bragg reflector → crucial
- **SSC → crucial**
- Pol convert/split → good to have
- Satuable absorber → not important
- **RF lines → crucial**

Volume production expected and other wavelengths of interest





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Future outreach plans

- ECOC 2017 8th EPIF edition
- JePPIX training 2017 (TU/e)
- JePPIX training in China (in negotiation) April 2018
- Extensive efforts on packaging (standardization with ePIXfab and MPP through JePPIX with Technobis + Tyndall and Cordon Electronics (previously Linkra)