

WP4: Relation with industry

Report

Second AIDA annual meeting

LNF, 10-12 April 2013

Past events

Academia-industry matching event

- SiPM
- PSSSD
- MPGDs
- 3D-IC

- **SiPM**
 - Very technology-specific → Photosensor
 - High Technology Readiness Level (TRL)
- **PSSSD**
 - Wider focus → Medipix, Pilatus, Bumpbonding, etc.
 - High TRL
- **MPGDs**
 - HEP technology
 - Low TRL → not manufactured by Industry
- **3D Interconnections**
 - Very technology-specific
 - TSV
 - SLID
 - Interposers
 - Low TRL

101 attendees from 40 institutions

- Austrian Acad Sci
- CERN
- CIEMAT
- CNRS-IN2P3
- CPAN
- CSIC
- DESY
- EPFL
- ETHZ
- FBK
- FNAL
- Forschungszentrum Julich GmbH
- GSI
- IFAE
- INAF
- INFN
- Kernfys Versneller Inst
- MPI
- PSI
- Rhein Westfal TH Aachen
- UERJ
- Univ AGH Sci & Technol
- Univ Bari
- Univ Gent
- Univ Glasgow
- Univ Heidelberg
- Univ Insubria
- Univ Leicester
- Univ Louvain KU
- Univ Michigan
- Univ Napoli Federico 2
- Univ Oxford
- Univ Pisa
- Univ Politecn Bari
- Univ Roma 1
- Univ Siena
- Univ Surrey
- Univ Tech Delft
- NTUA
- Univ Udine

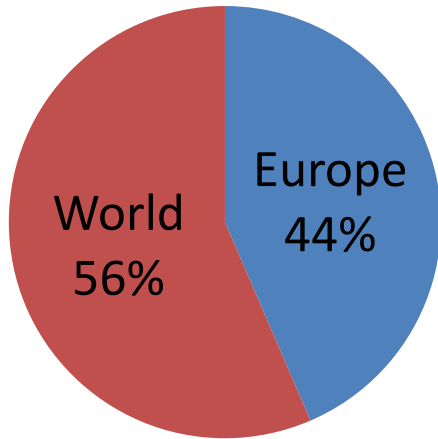
29 attendees from 23 companies

- AdvanSiD
- Atostek_Ltd
- AXINT
- Bruker_AXS
- CAEN_SpA
- CPTA_Moscow
- CSEM
- djh consult
- e2v_technol
- Excelitas_Tech_Inc
- Gamma_Medica_Ideas_Inc
- Hamamatsu_Photonics
- ID_Quantique_SA
- INOV_INESC_Inovacao
- KETEK_GmbH
- kromek?
- Philips_Corp
- Photek_Ltd
- Pulsar_Enterprise
- Raytest
- SensL
- STMicroelectronics
- Zecotek_Photonics_Inc

130 participants

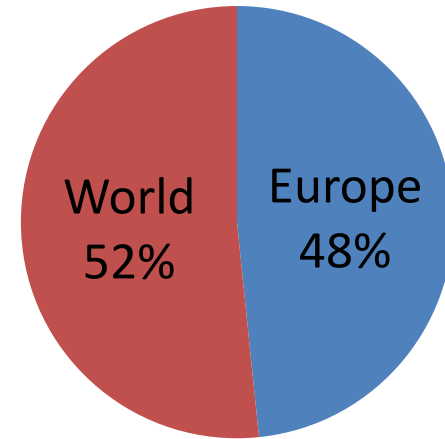
Companies

(Total: 108)



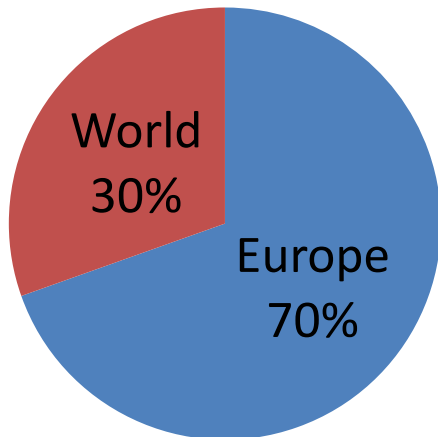
Institutions

(Total: 339)



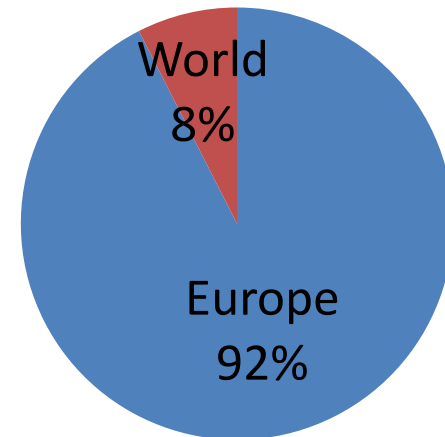
Attending companies

(Total: 23)



Attending institutions

(Total: 40)



68 attendees from 25 institutions

- Academy of Sciences of the Czech Republic
- Bulgarian Academy of Sciences
- Catholic University of Louvain
- CEA/Irfu Saclay
- CERN
- CNM-Barcelona
- CNRS - IN2P3 – LAL
- CPAN
- DESY
- IFCA (CSIC)
- INFN
- Institute of High Energy Physics, Wien
- Institute of Nuclear Physics of Poland
- KIT - Karlsruhe Institute of Technology
- Max-Planck-Institut für Physik Munich
- MRC Laboratory of Molecular Biology United Kingdom
- NIKHEF
- Oxford University
- Tomsk Polytechnic University
- University of Barcelona
- University of Bonn
- University of Cantabria
- University of Hamburg
- University of Otago
- VTT

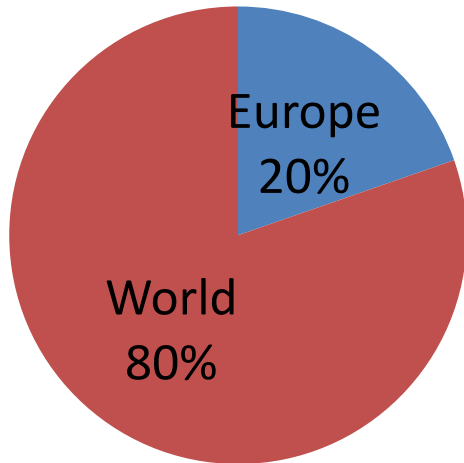
18 attendees from 15 companies

- ALIBAVA Systems
- Amsterdam Scientific Instruments BV
- Baltic Scientific Instruments
- CAEN SpA
- Canberra
- Dectris Ltd.
- Infineon Technologies
- iseg Spezialelektronik GmbH
- KETEK GmbH
- Kromek Ltd
- Philips Digital Photon Counting
- Photek LTD
- SEMIKON Detector GmbH
- Struck Innovative Systeme GmbH
- Technology Transfer Agency Techtra Sp. z o.o.

86 participants

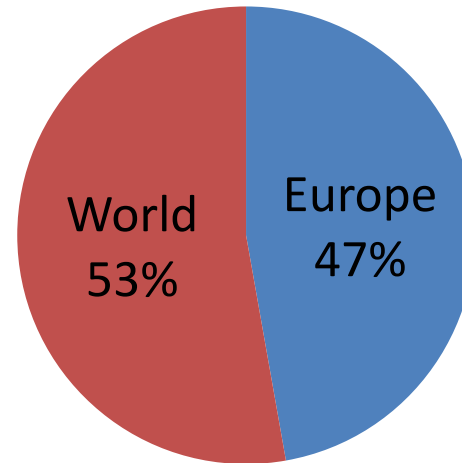
Companies

(Total: 436)



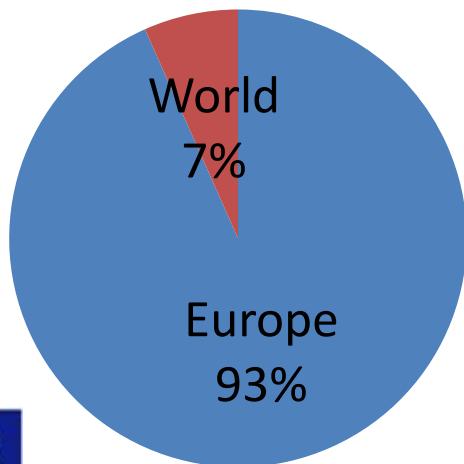
Institutions

(Total: 735)



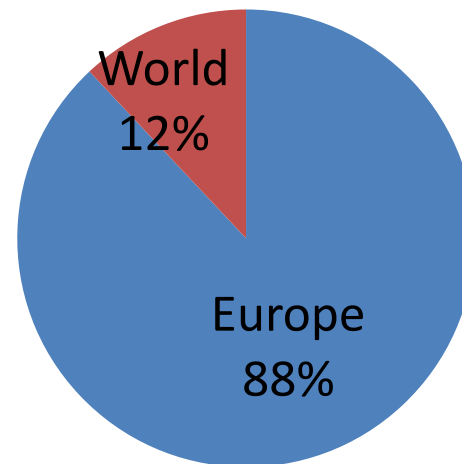
Attending companies

(Total: 15)



Attending institutions

(Total: 25)



57 attendees from 19 institutions

- ANR
- BNL
- CEA
- CERN
- CNM-CSIC
- CNRS-IN2P3
- GSI
- ILL
- INFN
- NTUA
- PSI
- TERA foundation
- Univ Antonio Narino
- Univ Bonn
- Univ Tokyo
- Univ Virginia
- Univ Napoli
- Univ Mascara
- Univ Savoie

13 attendees from 9 companies

- Blue Now
- Bodycote Techmeta
- CAEN
- DJH Consulting
- ELTOS Spa
- ELVIA CIREA
- EOS Imaging
- ITEST
- Physical Instrument

70 participants

77 attendees from 28 institutions

- Academy of Sciences Czech Republic
- Austrian Acad Sci
- CEA
- CERN
- CMP
- CNRS/IN2P3
- DESY
- FNAL
- Fraunhofer IZM
- GSI
- HEPTech
- IFJ PAN
- CSIC
- INFN
- Institute of Physics, Prague
- IMEC
- KTH Royal Institute of Technology
- MPI
- NTUA
- STFC
- Universite de Geneve
- Universite de Paris-Sud 11 - LAL
- University of Bergen
- University of Heidelberg
- University of Liverpool
- University of Manchester
- Universität Bonn

14 attendees from 13 companies

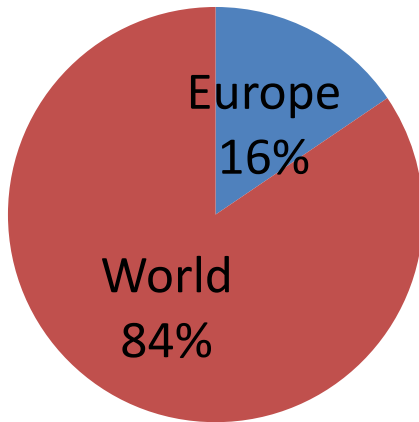
- Advacam
- BelleTech
- Dectris
- EMFT
- IBM
- IPDiA
- KETEK GmbH
- micron semicond
- Philips Corp
- Printech Circuit Laboratories Ltd
- Tezzaron Semiconductor
- Tohoku-MicroTec Co., Ltd
- TTA Techtra

91 participants

- Search for industrial (290) and academic (181) organisations active in
 - TSV
 - SLID
 - Interposers
- Contacted all key-players worldwide
 - (IBM, Tezzaron, Intel, EMC-members, TI, etc.)
- Invited all European companies (46) and institutions (65)

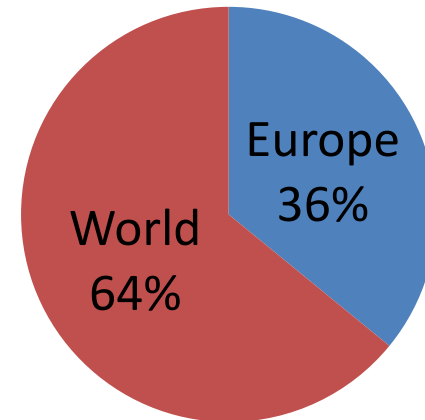
Companies

(Total: 290)



Institutions

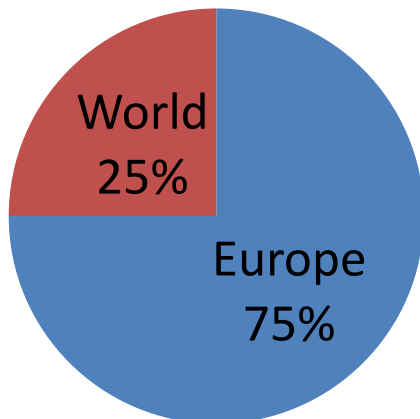
(Total: 181)



Attending companies

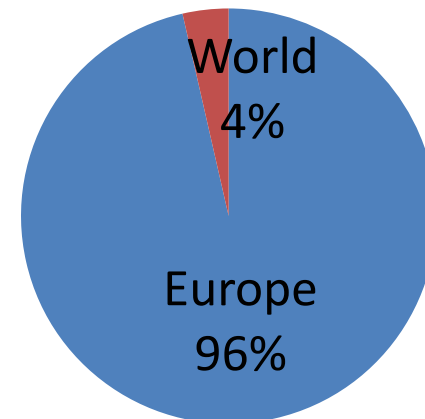
(Total: 12)

(Contacted all european companies)



Attending institutions

(Total: 28)



- **Criteria**

- Community requirements to Industry

- Example: SiPM

- Deployment of technology

- Example: PSSSD → Medipix, Pilatus

- Pressing industrial needs from WP

- Production (example: SiPM, MPGD)

- Joint R&D (example: MPGD)

- Community is strongly depending on Industrial availability of the technology

- Example: 3D-IC