
25th October 2011

EMIR KADIR SIRAGE, PT ILO@ESO

ESO INDUSTRY DAY

PORTUGUESE INDUSTRIAL PARTICIPATION

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA



1. FCT activities related to ESO in context

FCT Fundação para a Ciência e a Tecnologia

MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

- Industrial Liaison Officer role in Scientific Facilities as part of the Portuguese delegation
- Representation at ESA and other ESA Governing bodies

Integrated approach towards industry and academia (meetings, events, procurement opportunities,...)

Space



Accelerators



Astronomy



2. Industrial Liaison Officer – ILO mandate

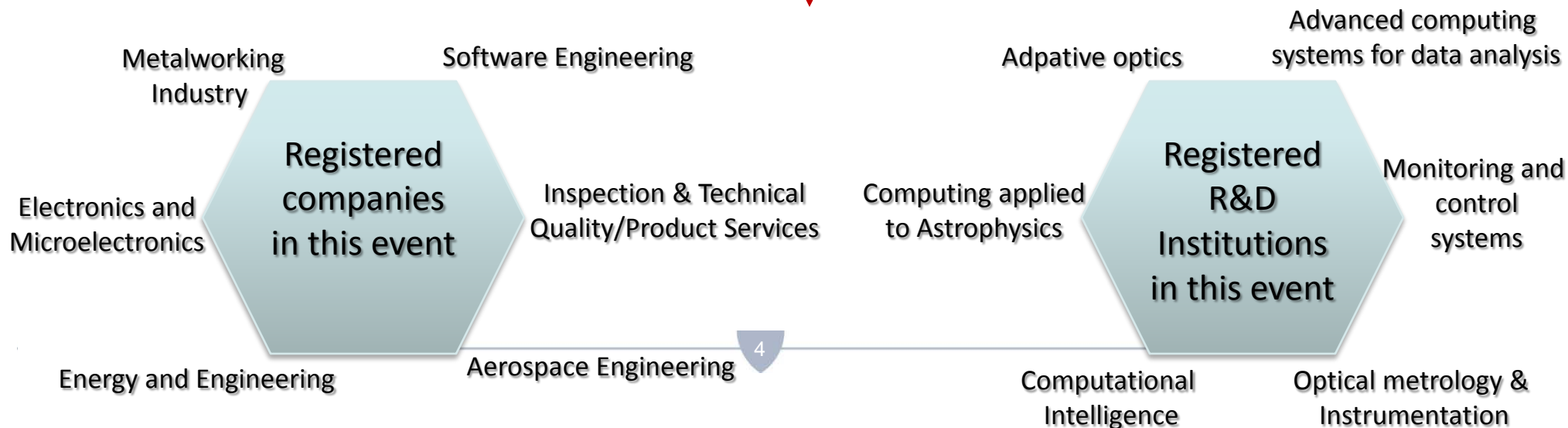


3. ESO needs vs PT entities registered in event

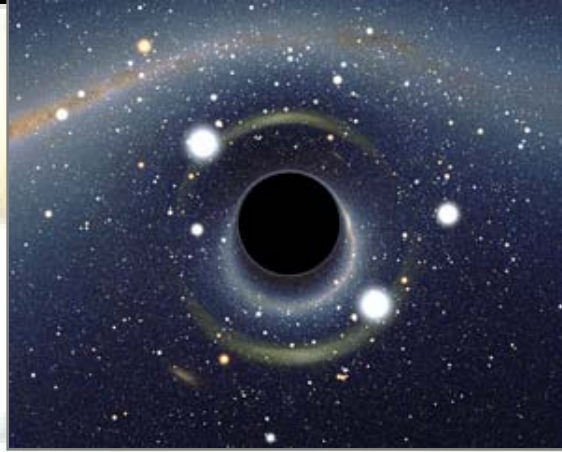
Some of ESO technology needs

(source: ESO list of needs)

- Electronics (...control systems, PCBs fabrication)
- IT (...Software & Hardware)
- Optics (...systems, manufacturing)
- Civil and Mechanical Engineering (...large structures for telescopes, civil works)
- Infrastructure (Electrical power equipment and systems , heavy handling machinery)
- ...



Simulated view of a black hole



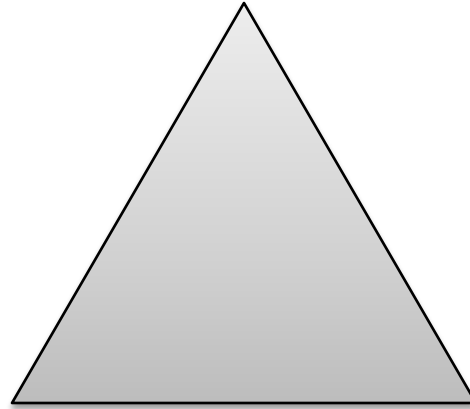
4. PT@ESO - Advanced training in today's Knowledge economy

+ - 1% for Portugal

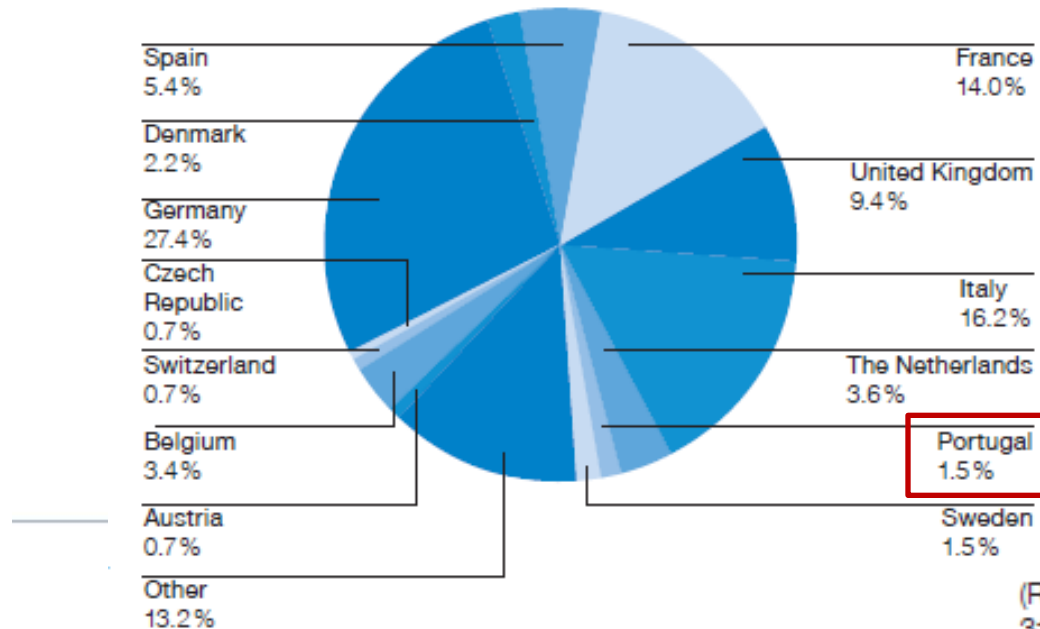
(Scale of contribution vis-à-vis other Member States)



HR working at ESO
(PT nationality)

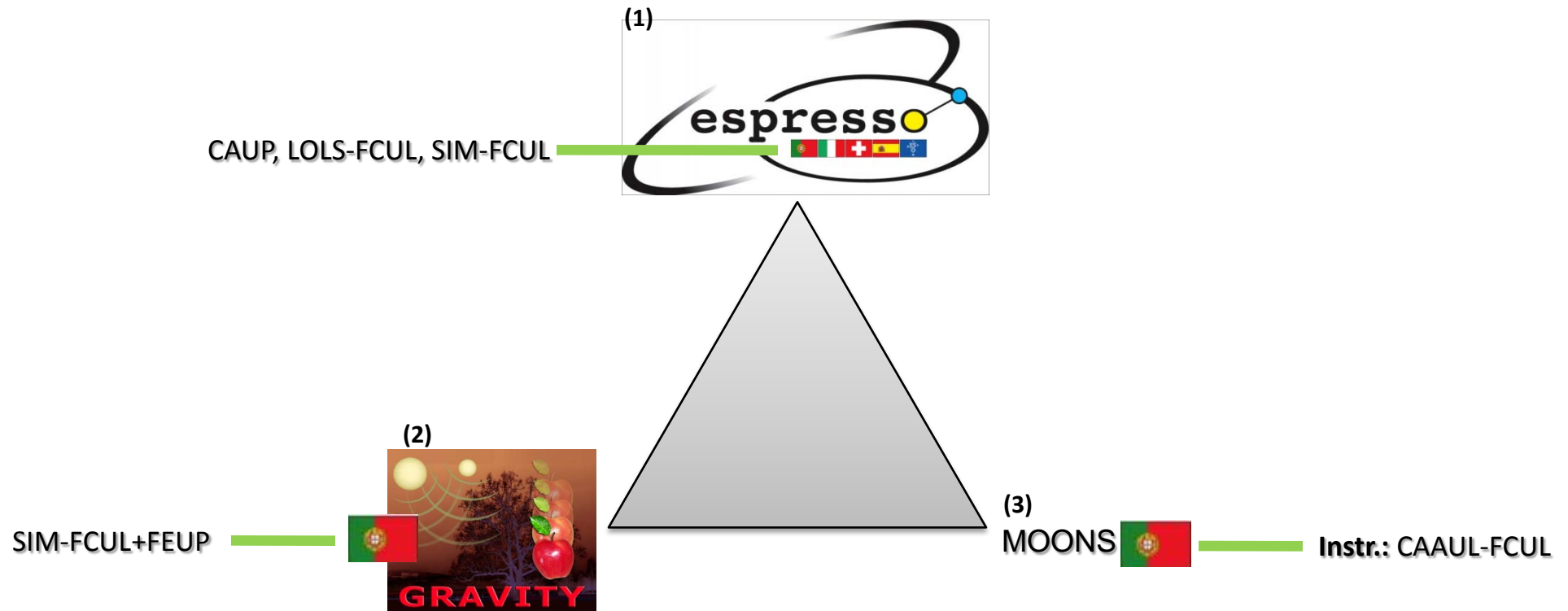


Estágios tecnológicos no CERN, ESA e ESO
Advanced training for young engineers
(paid by FCT) = 15 until date

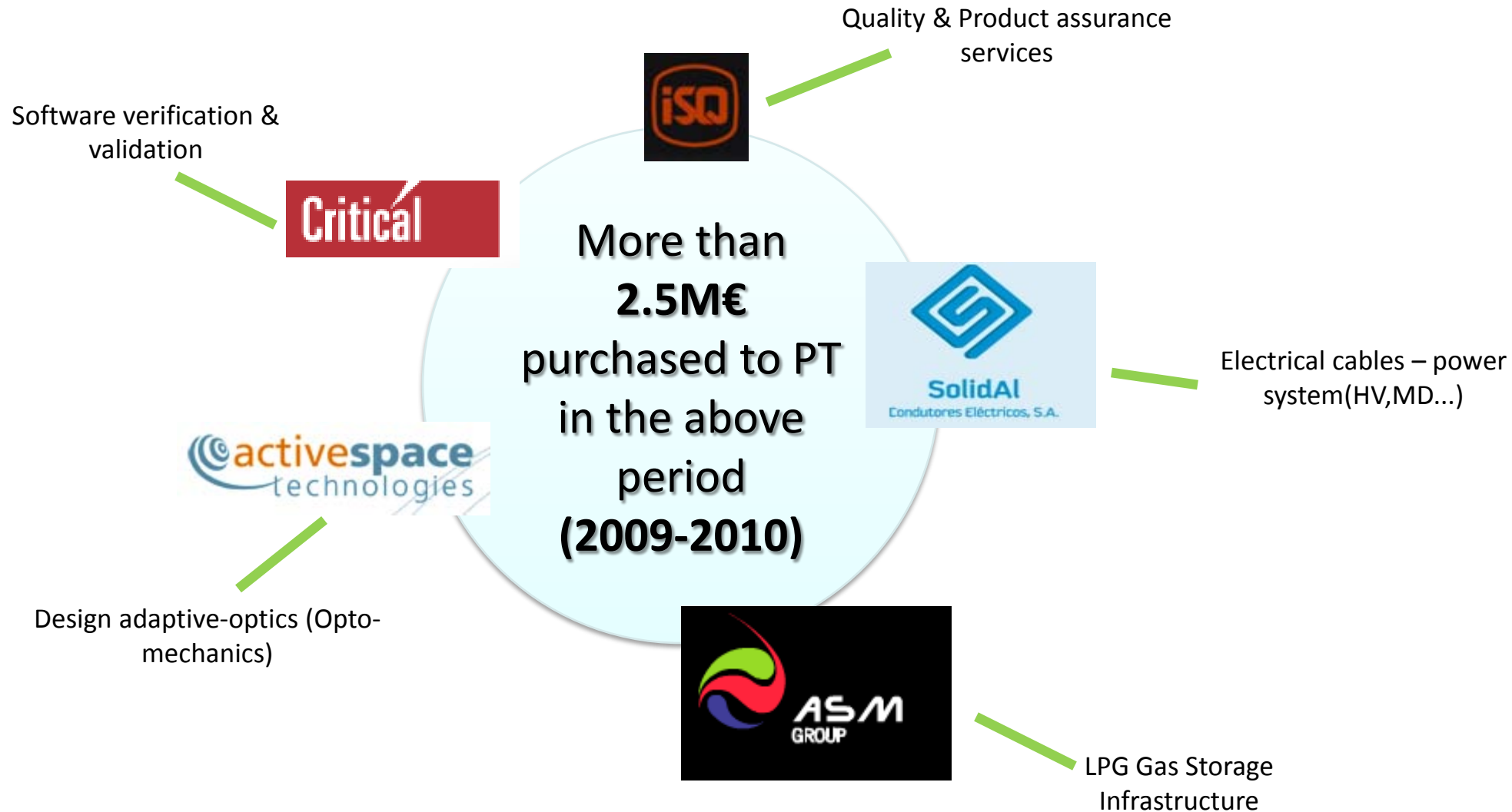


(Right) Staff members by nationality — 31 December 2010.

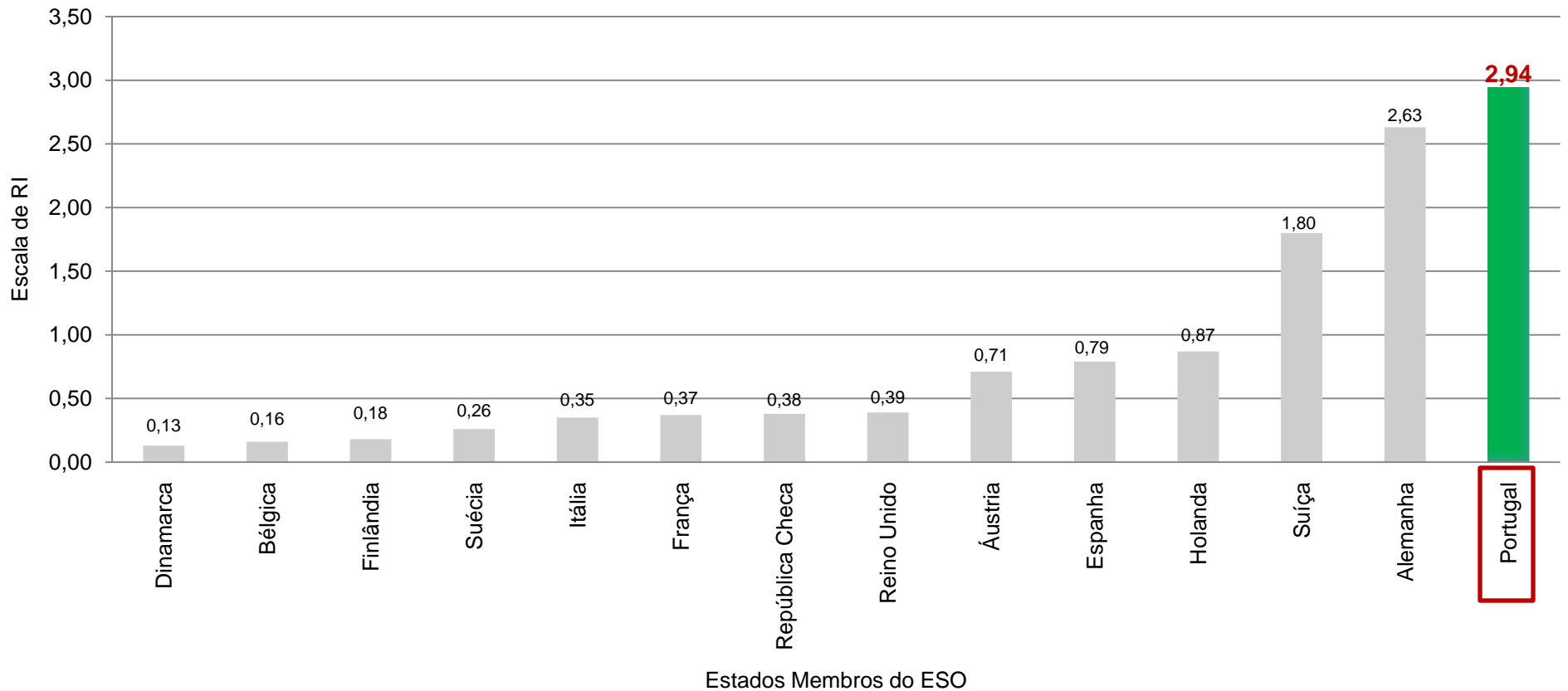
5. PT@ESO – Access to world class Astronomy, projects and technology



6. PT@ESO – Industrial Return (2009-2010)



7. PT@ESO – Industrial Return 2009

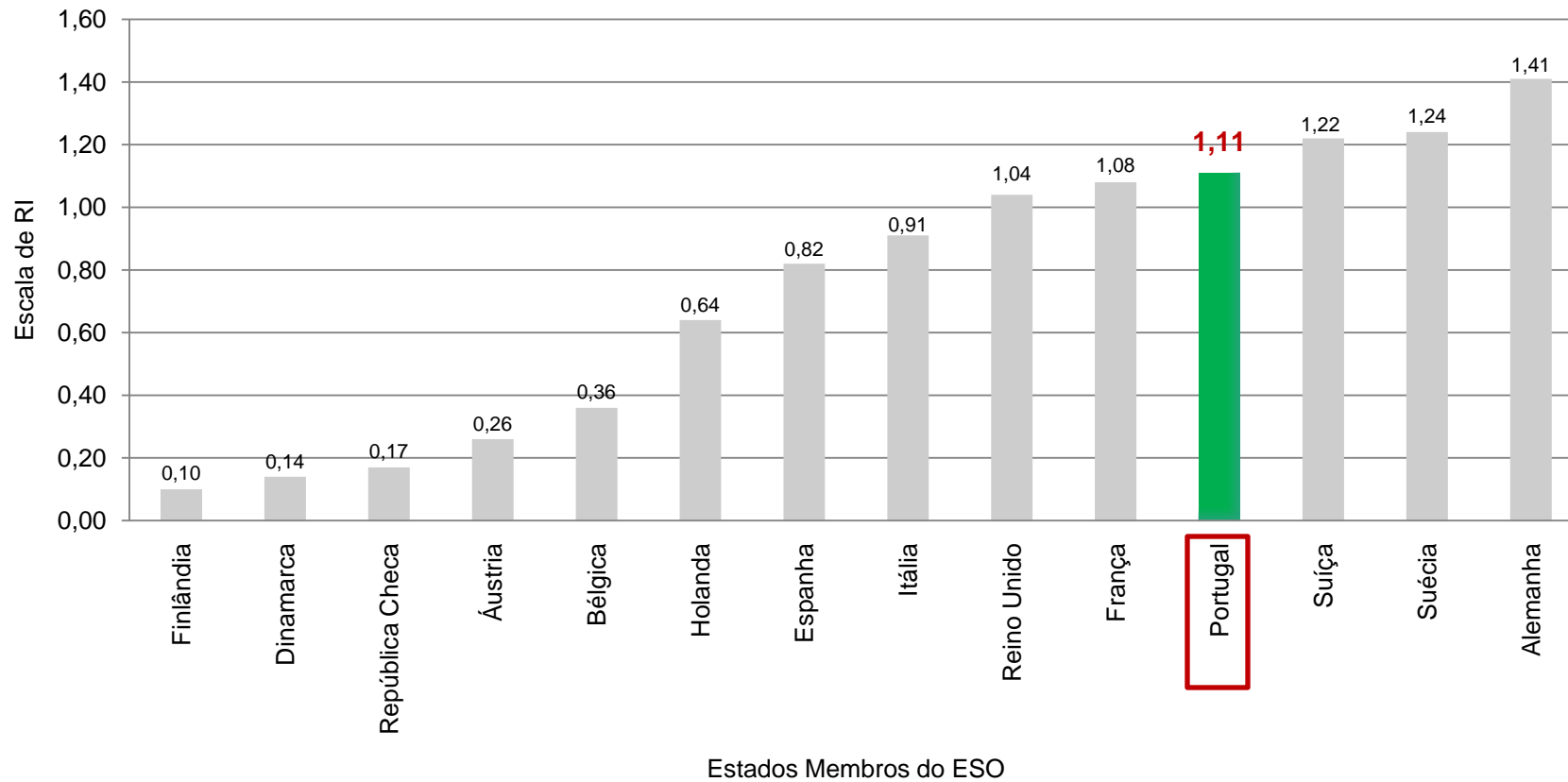


Ratio between the percentage of expenditure in PT

Industrial Return Coefficient:

PT percentage contribution to the overall ESO budget

8. PT@ESO – Industrial Return 2010



9. To retain messages for the event



- Access prime information on opportunities from across ESO scientific and technological Programme (inc/ the E-ELT)
 - Make yourself known to ESO executive and discuss
 - Leverage the discussion at the parallel sessions in order that ESO can understand they can do business with you
 - Take the opportunity to network together (industry and academia) to
- ...open new collaborations to win contracts from ESO in the medium and long-term



EVENT LOGISTICS

10. Programme

09:45 – 10:00	Introduction to ESO Rowena Sirey <i>Head of External Relations, ESO</i>
10:00- 10:30	ESO Technology Needs Roberto Tamai <i>Head of Technology Division, ESO</i>
10:30- 10:45	<i>Coffee break & networking</i>
10:45- 11:15	Upcoming Opportunities - The E-ELT project Alistair McPherson (<i>replaced by Roberto Tamai</i>) <i>E-ELT Project Manager, ESO</i>
11:15- 11:45	Instrumentation Programme at ESO Mark Casali <i>Head of Instrumentation, ESO</i>
11:45-12:15	Securing ESO Contracts - The procurement process Yves Wesse <i>Head of Contracts and Procurement, ESO</i>
12:15- 13:45	<i>Lunch break</i>
Parallel Sessions – 14:00 until 16:00	
Session 1 Engineering and Control Roberto Tamai <i>Head of Technology Division, ESO</i>	
Seminar: Instrumentation Mark Casali <i>Head of Instrumentation, ESO</i>	
Seminar: Civil and mechanical engineering opportunities in the E-ELT Alistair McPherson (<i>replaced by Yves Wesse</i>) <i>E-ELT Project Manager, ESO</i>	

Programme breaks

- 10:30 -10:45) – Coffee and networking (outside in the hall)
- (12:15 – 13:45) – Lunch break (restaurant available in hall of Pavilhão do Conhecimento) or around you may find many restaurants available.
- (14:00) – Start of parallel sessions - panels with posters signal the rooms for the sessions
 - Session 1 : Engineering and Control (Chair: Emir Sirage)
 - Speaker ESO: Roberto Tamai
 - 3min oral presentation: all
 - Session 2 : Instrumentation (Chair: Mário Amaral)
 - Speaker ESO: Mark Casali
 - 3min oral presentation: all
 - Session 3 : Civil and Mechanical Engineering (Chair: Luís Serina)
 - Speaker ESO: Yves Wesse
 - 3min oral presentation: all
- (16:00) – Expected hour of closure of event