

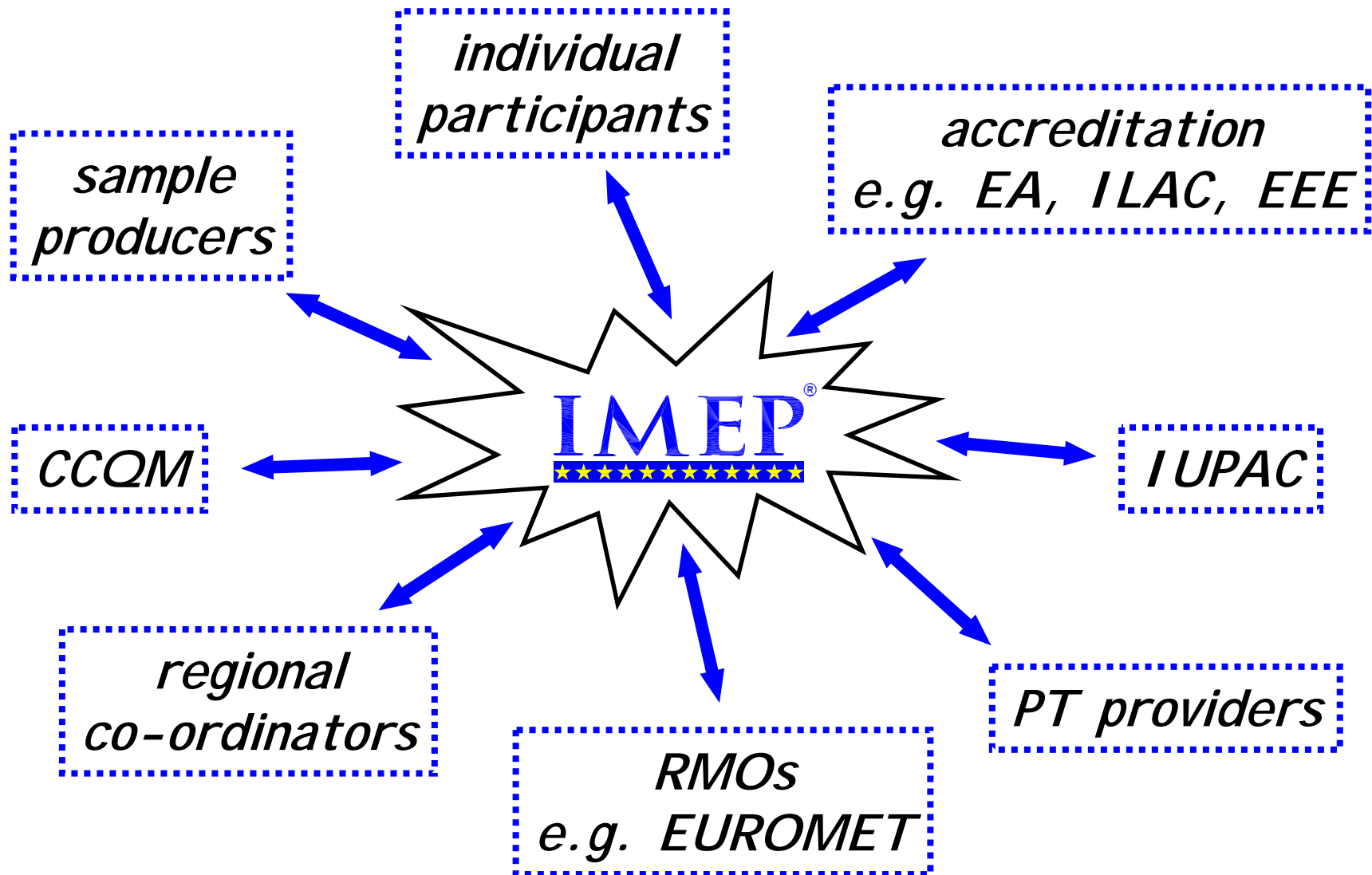
*International Measurement
Evaluation Programme
(IMEP)
a tool for metrology in chemistry*

Poster presented at the
IUPAC Congress/General Assembly
July 2001

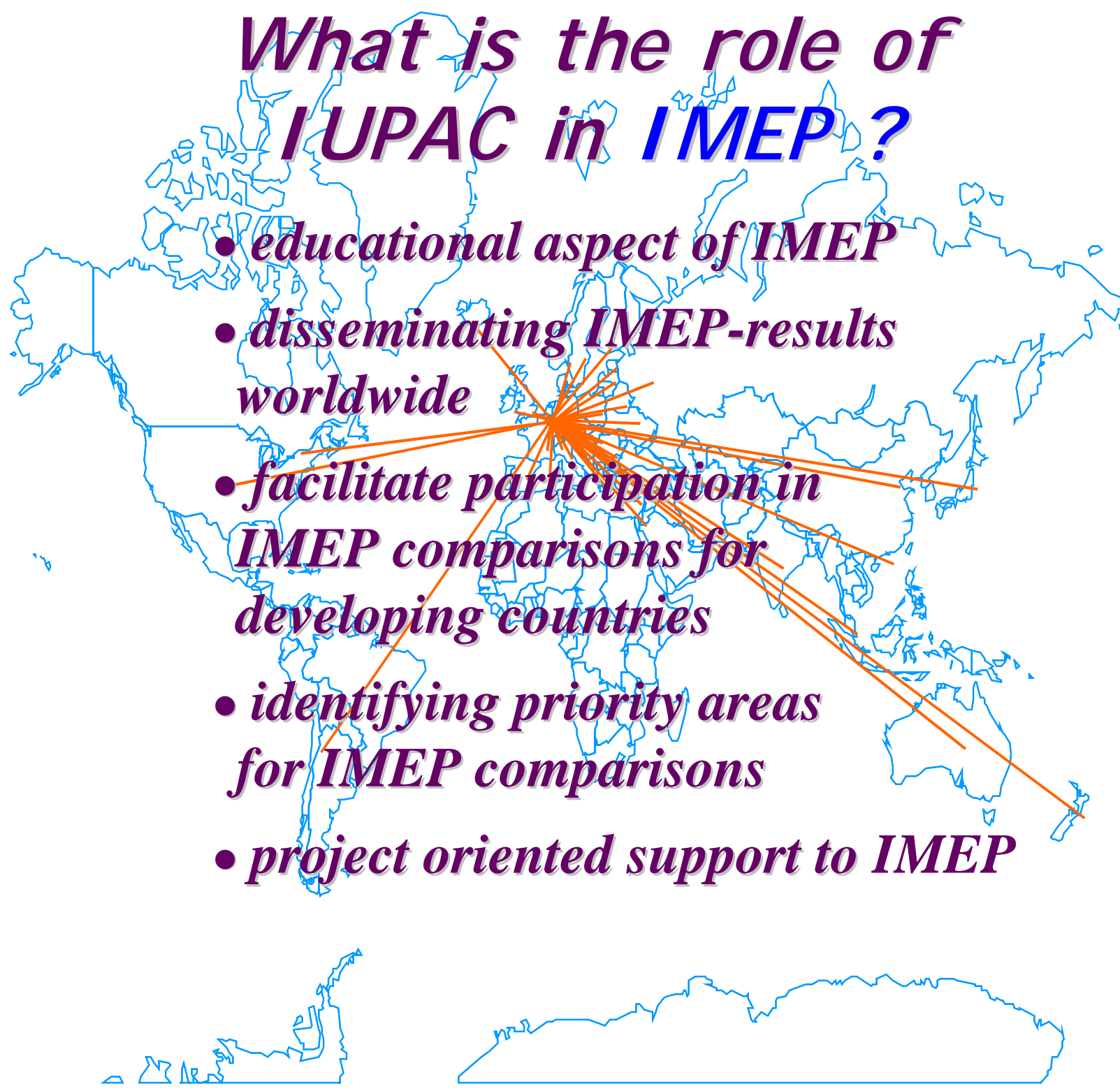
fundamentals

- ✓ *offer SI traceable reference values*
- ✓ *demonstrate degree of equivalence of chemical measurement results*
- ✓ *investigate matrices with impact in environment, health, food and safety*
- ✓ *contribute to the establishment of an international measurement structure*
- ✓ *guarantee confidentiality*
- ✓ *link with Accreditation Bodies*
- ✓ *link with Nat. Metrology Institutes*
- ✓ *link with Proficiency Testing*

interactions



What is the role of IUPAC in IMEP?

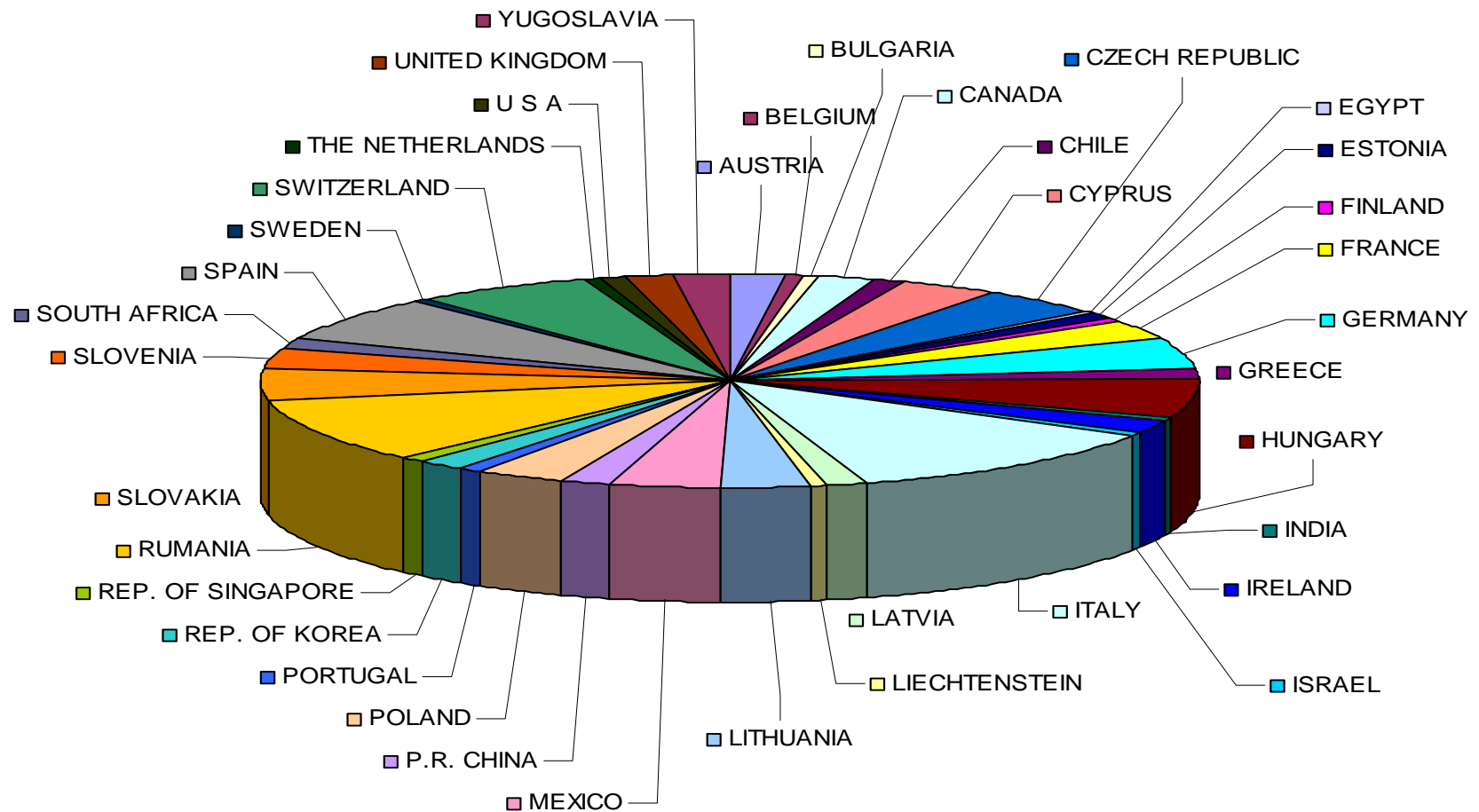
- *educational aspect of IMEP*
 - *disseminating IMEP-results worldwide*
 - *facilitate participation in IMEP comparisons for developing countries*
 - *identifying priority areas for IMEP comparisons*
 - *project oriented support to IMEP*
- 

regional co-ordinators

<i>Albania</i>	<i>Croatia</i>	<i>Italy</i>	<i>Singapore</i>
<i>Argentina</i>	<i>Cyprus</i>	<i>Japan</i>	<i>Slovakia</i>
<i>Australia</i>	<i>Czech Rep.</i>	<i>Korea</i>	<i>Slovenia</i>
<i>Austria</i>	<i>Denmark</i>	<i>Latvia</i>	<i>South Africa</i>
<i>Belgium</i>	<i>Egypt</i>	<i>Lithuania</i>	<i>Spain</i>
<i>Brazil</i>	<i>Finland</i>	<i>Mexico</i>	<i>Sweden</i>
<i>Bulgaria</i>	<i>France</i>	<i>New Zealand</i>	<i>Switzerland</i>
<i>Canada</i>	<i>Germany</i>	<i>Norway</i>	<i>The Netherlands</i>
<i>Chile</i>	<i>Hellas</i>	<i>Portugal</i>	<i>United Kingdom</i>
<i>China</i>	<i>Hungary</i>	<i>Rumania</i>	

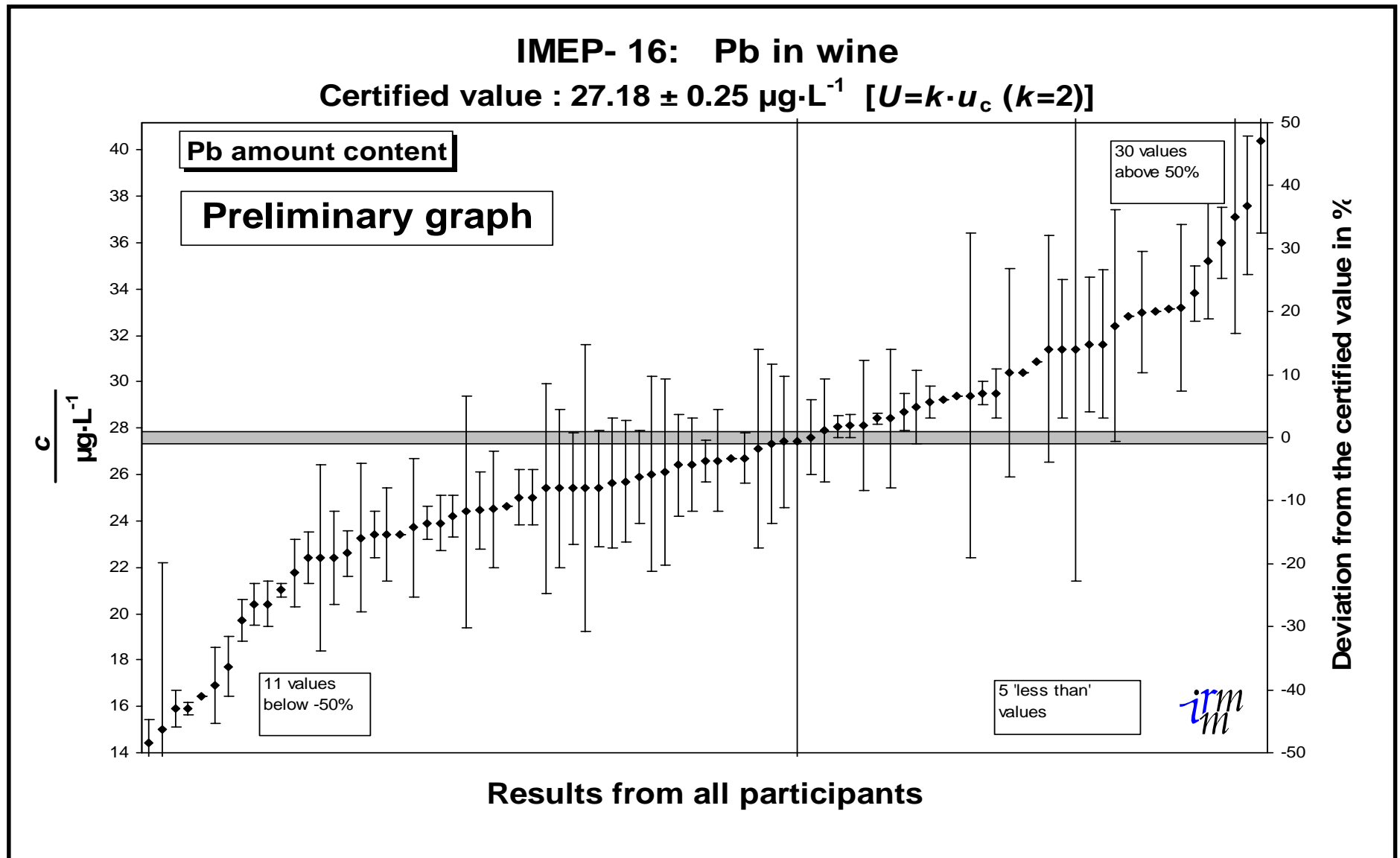
participation

IMEP-16, Pb in wine



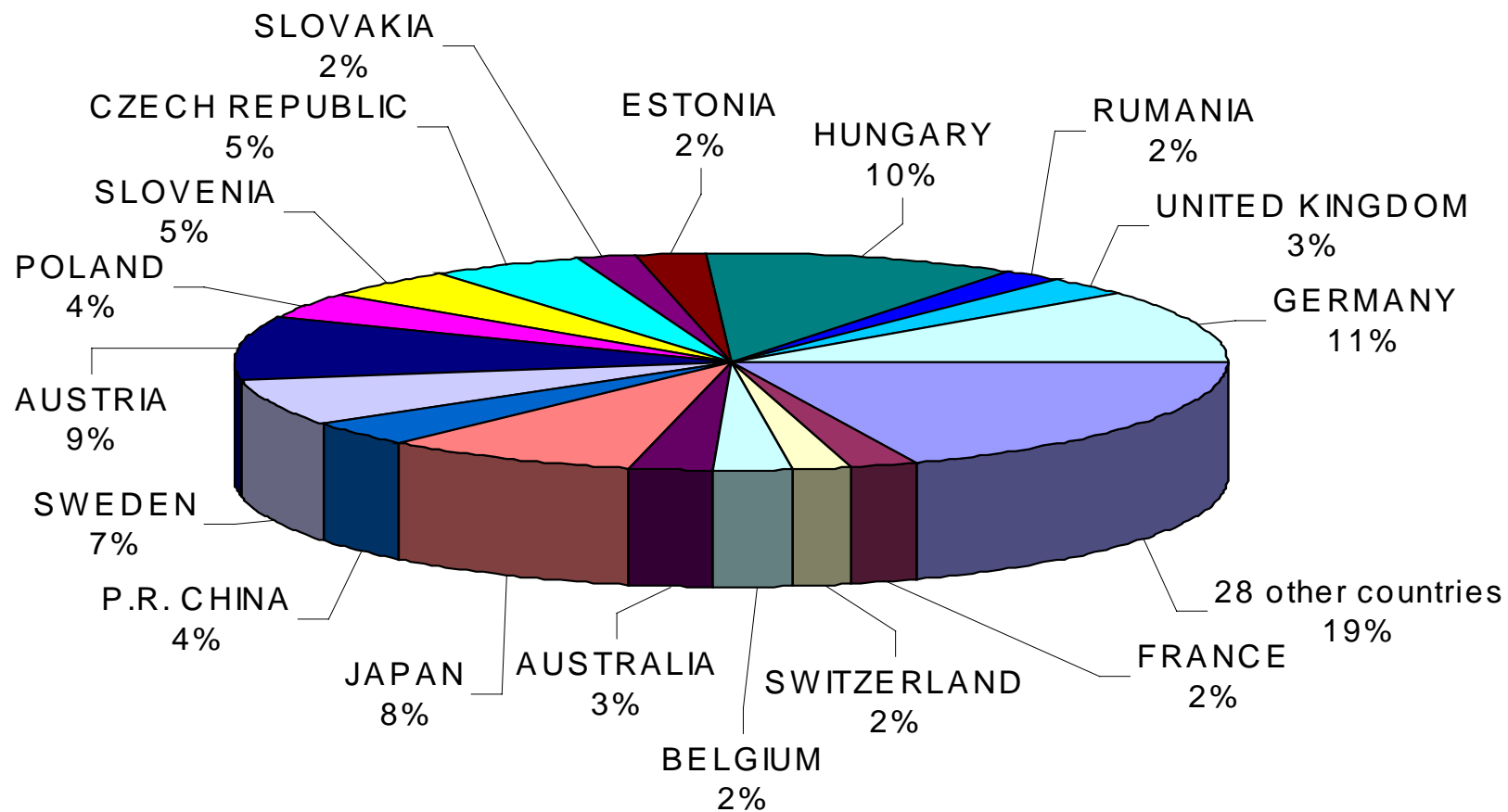
results

IMEP-16, Pb in wine



participation

IMEP-14, trace elements in sediment

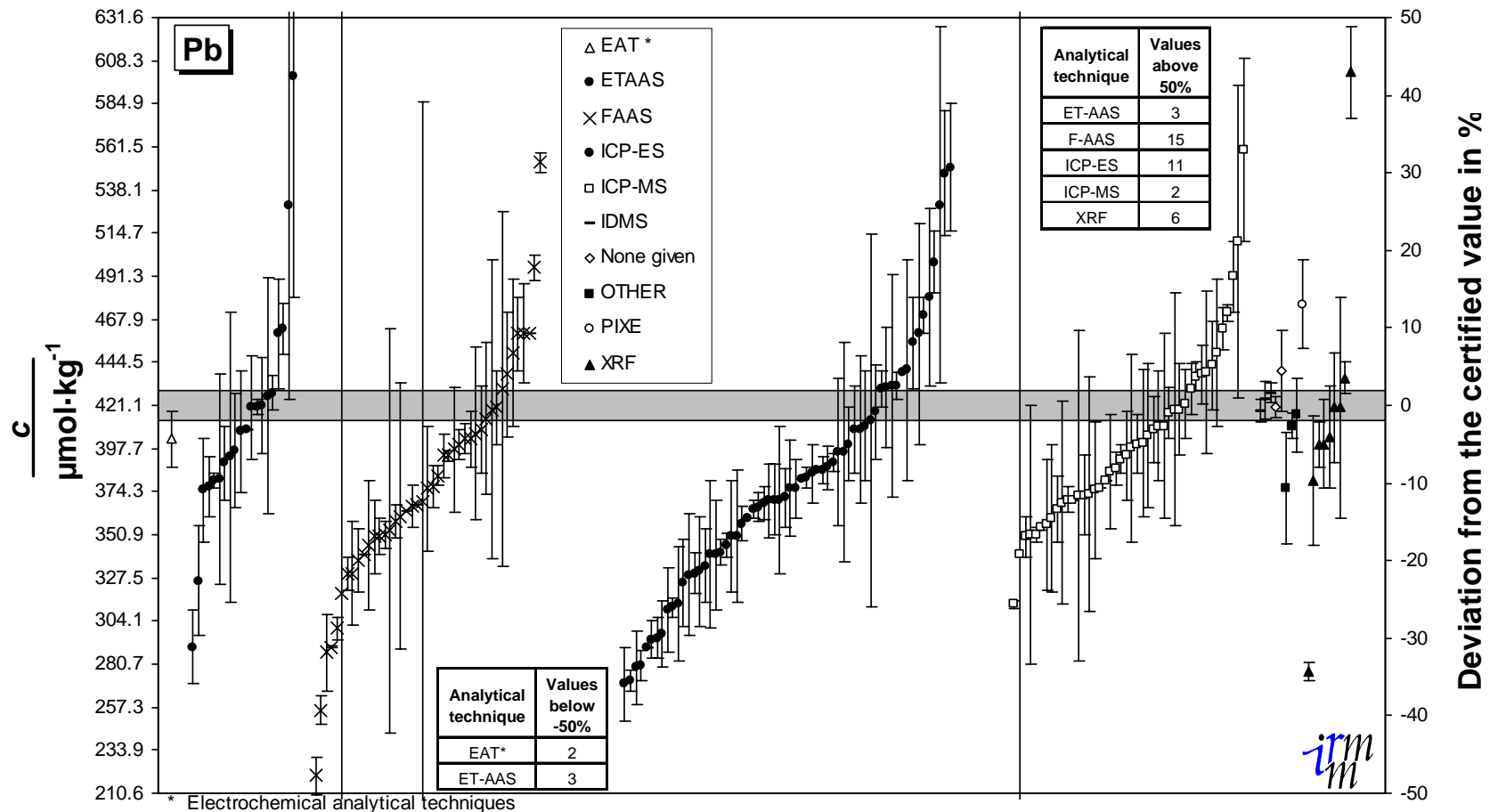


results

IMEP-14, trace elements in sediment

IMEP- 14 : Trace elements in sediment

Certified value : $421.1 \pm 8.4 \mu\text{mol}\cdot\text{kg}^{-1}$ [$U=k\cdot u_c$ ($k=2$)]



Results from all participants according to analytical techniques used.



ongoing/future comparisons

- ◆ *IMEP-12 : metals in Water*
- ◆ *IMEP-17 : trace and minor
constituents in Serum*
- ◆ *IMEP-18 : S in Fuel*
- ◆ *IMEP-19 : trace and nutritional
elements in Rice*

<http://www.jrmm.jrc.be/imep>

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