



Promoting measurement science

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Content



- Impact Examples focusing on economic benefit
- What is impact?
- Why is it important?
- How Euramet collates impact.....
 and why
- What Euramet can share



Impact examples



https://vimeo.com/290904405
Introducing MRI targeted radiotherapy

European Metrology Research Programme Delivering Impact



Supporting the use of MRI scanning





European Metrology Research Programme Delivering Impact









Impact examples



Success from onerous NMI requirements

Case study: Developing nano-precision positioning

BAM requires precision re-positioning instrument upgrade to fulfil EMRP project delivery





.....but company unable to meet demanding specification

Impact examples

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Company makes technical break

through.....

..... linear drive supplied too late for project,

but has great commercial potential



European Metrology Research Programme Delivering Impact





Nanoprecision positioning

The biomedical, semiconductor and robotics industries need precision positioning techniques to underpin the development and production of high-performance products. Positioning systems are driven by linear drives, which control the position and orientation of surgical or manufactory tools or measurement devices with extreme precision. Improvements to the size, speed and accuracy of linear drives will support the development of new and improved techniques in many diverse applications.

Europe's National Measurement Institutes working togethe

The European Methology Research Programme (EMRP) brings together National Mazaurement Institutes in 23 countries to address I make the Address of the Address I make the Address I make

Impact examples – case studies

Supporting EU goals for self-sufficiency / protecting the environment / economic growth / improving healthcare

Reducing pollution (air monitoring)

Introducing greener energy supplies (Smart grids)

Safeguarding communications (GNSS – Galileo)

Increased standardisation for disease diagnosis

Future proofing economic growth through measurement innovation (TofSIMS, AFM)









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Impact examples – case studies



Supporting EU member state industries to promote a resilient economy

- The Dutch healthcare and energy companies
- The Czech drive towards semiconductor production
- The Finnish wood products industry
- The Belgium diamond bourses



What is impact?



Uptake of programme outcomes by the user community to create:

Economic benefit (quantifiable?) – new / upgraded products or services

Social benefit – improved healthcare / assessment of risks and their mitigation / regulatory compliance

Input to standards / regulations???



Why is Impact important?



Demonstrating the importance of metrology to the EC and meeting Euramet's key performance indicators

400 m€ quantifiable economic benefit from their 1 b€ investment in EMRP and EMPIR programs (NB real benefit significantly greater! Factor of 10 or more)

Demonstration of value to a community of the financial investment made

Influencing decisions on future / further funding

Increasing recognition of the metrology community's contribution to society

How Euramet collates impact and why

At project finish, co-ordinator sends MSU final reports - including the Output and Impact Report. Used for:

- Generating theme statistics
- Checking content in Final Summary Impact section



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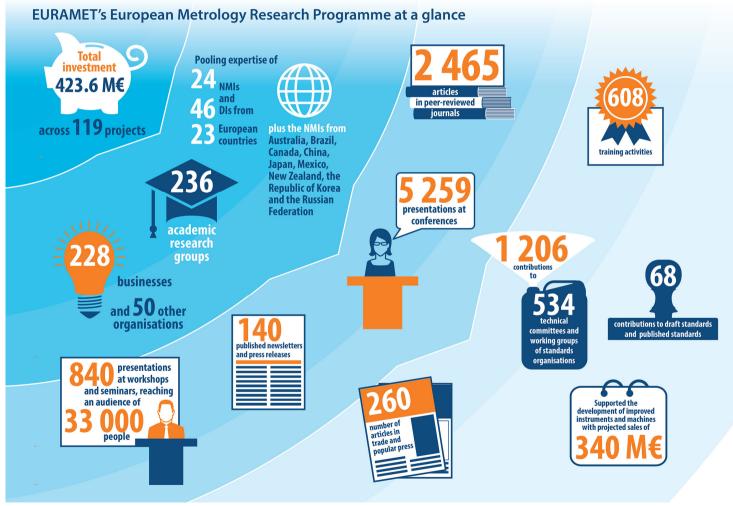
To collect impact examples for case studies:

Project co-ordinator (and others) interviewed to gain understanding of:

- Who has used project outcomes, and what these enable them to do better
- Attributable financial benefit from using outcome (contribution to achieving Euramet KPI of 400 €m in economic benefit to EU)

How Euramet collates impact and why





How Euramet relays impact to non-technical target groups e.g. EC stakeholders **EURAMET**

Theme impact reports:

Highlights

Key technical achievements - Project summaries

Focus on impact - short case study texts featuring generation of competitive advantage to EU companies.....

....or....

.....outcome uptake supporting grand challenges, improvements to regulatory compliance etc



How Euramet relays impact to non-technical target groups e.g. EC stakeholders

Euramet website:

- Impact and Innovation pages
- Good news stories based on project developments

■ Metrology for Society's Challenges



FIND OUT MORE

Metrology for Health
Metrology for Environment
Metrology for Energy
Metrology for Industry
Measurements for New Technologies
Future measurement standards
Metrology and Standardisation



Dive in and discover selected highlights

2018-10-23 the EMRP and EMPIR projects >>

Sharing information



Case studies are available to contributors and featured NMI/DI for translation and use as electronic or hard copy

NMI/DI with case studies are (so far):

Austria Finland The Netherlands Spain

Belgium France Norway Sweden

Czech Republic Germany Poland Switzerland

Denmark Ireland Portugal Turkey

Germany Italy Slovenia

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