



Research Fund for Coal and Steel

Infoday
Opportunities under RFCS
7th May 2014

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Research and Development

A quality and technology network

Agenda

- 1 – ISQ Overview
- 2 – ISQ participation in RFCS
- 3 – Participation in Technical and Working Groups
- 4 – Project Evaluation & Evaluator perspective
- 5 – How to prepare a proposal



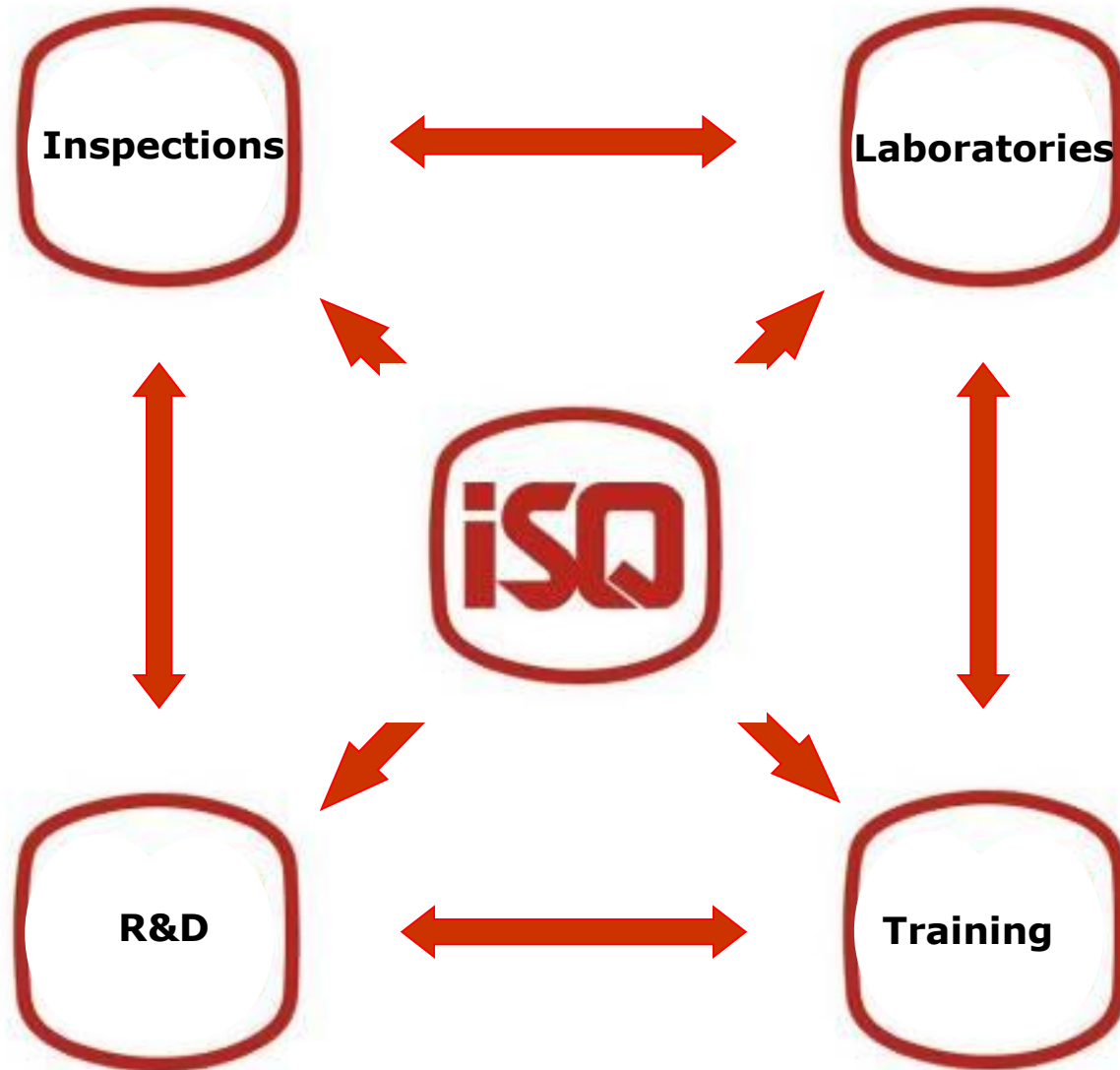
Working in the Name of Innovation,
Technological, Development and Quality since
1965



ISQ Profile

- **Founded in 1965;**
- **Privately owned, being a non profit technical and scientific association;**
- **Headquarters/Delegations:
Taguspark, Porto, Sines, Castelo Branco**
- **Two hundred company members;**
- **Around 800 staff teamed with customers and partners;**
- **Turnover: 80 M€ (2013);**
- **Operating in 20 countries worldwide**





Vertical Areas

- Technical Inspections;
- Sustainable Development (Safety, Environment and Energy);
- Maintenance and Structural Integrity;
- Civil Construction;
- Mechanical construction;
- Non Destructive Control;

Transversal Areas

- Laboratories;
- Training
- R&D



Supporting Laboratories

21 certified Labs NP/EN 17025

LABCAB

Laboratory of Electrical Cables
Testing

LABEL

Laboratory of Electrical Equipments
Testing

LABEND

Laboratory of Non Destructive
Testing

LABET

Laboratory of Thermo Dynamical
Testing

LABMEC

Laboratory of Mechanical Behaviour

Aerospace Structural Centre in Castelo Branco
LABMETRO
Laboratory of Metrology

LABMM

Laboratory of Metallurgy and Materials

LABQUI

Laboratory of Environment and
Chemistry

LABRD

Laboratory of Acoustic & Noise Testing

LABCEM

Laboratory of Electromagnetic
Compatibility Testing

Other Laboratories (Non accredited):

Laboratory of Concrete Testing

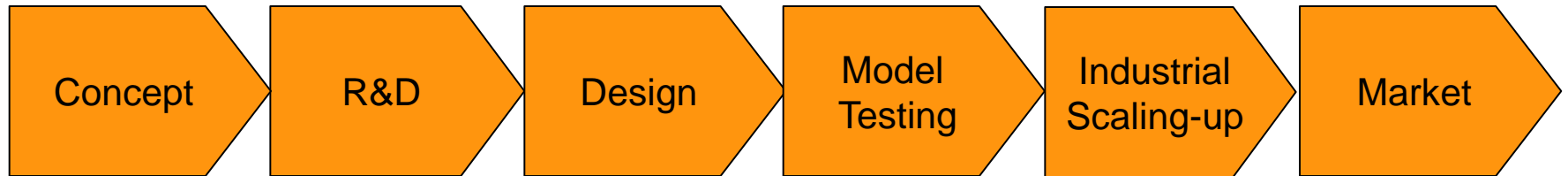
Laboratory of Anticorrosion Protective
Coatings

Welding & Robotics

High Density Beams

R&D - mission

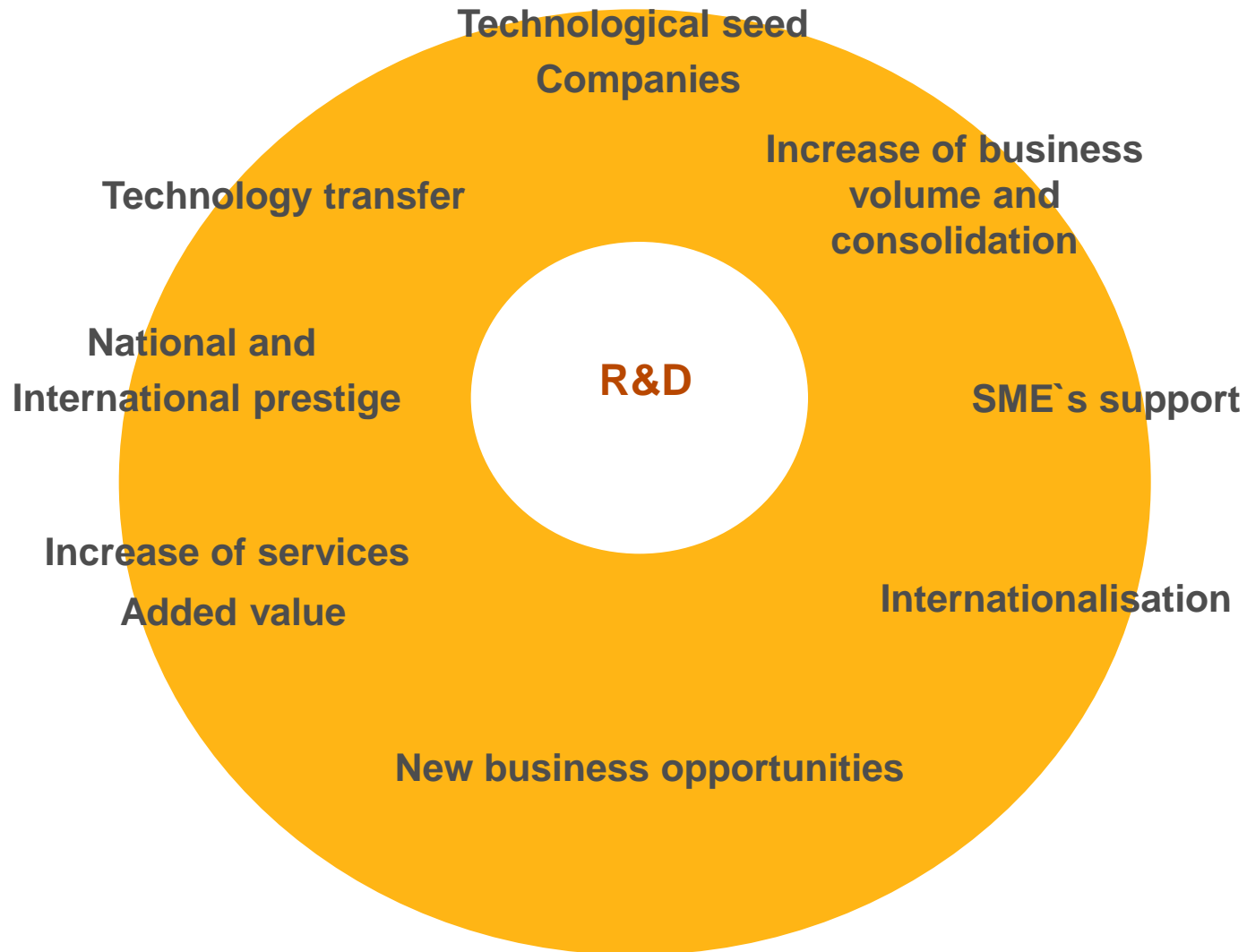
“Sustainable Growth based on Technology and Innovation”

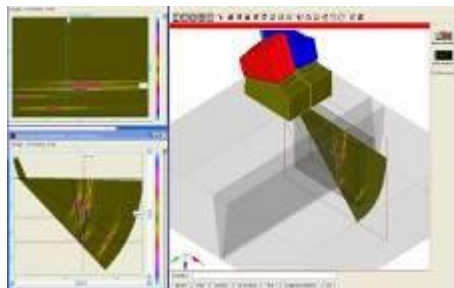


ISQ can act in all phases of an R&D project, from the concept to the market, being the ideal partner for Innovative Technological Solutions for Industry

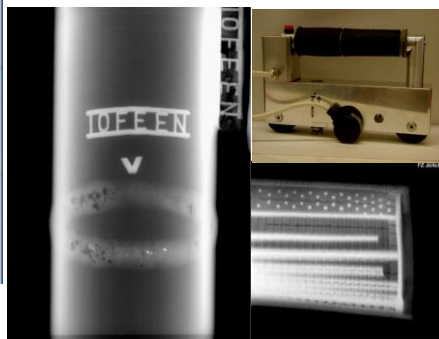


SUSTAINABLE GROWTH BASED ON TECHNOLOGY AND INNOVATION





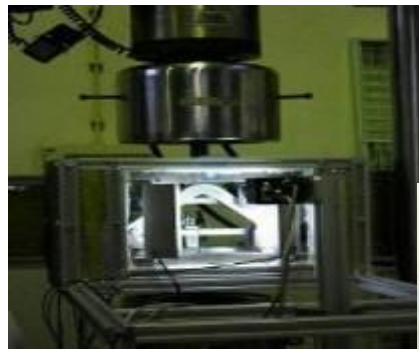
NDT
Advanced
Technologies



Coatings &
Corrosion



Materials
Behaviour

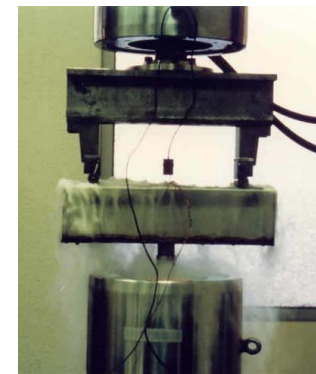
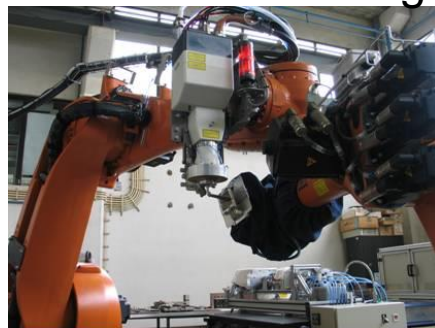


Environment &
Industrial Safety

Production
Technologies

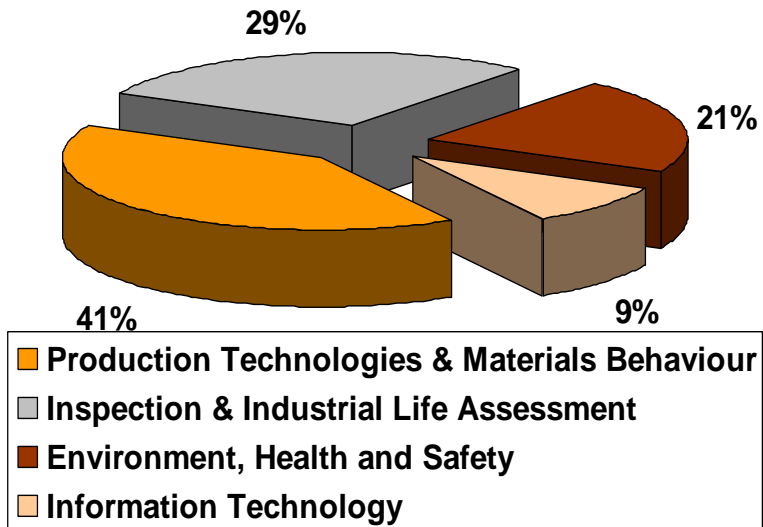


Instrumentation and
testing



R&D BACKGROUND

Projects approved since 1985 > 300

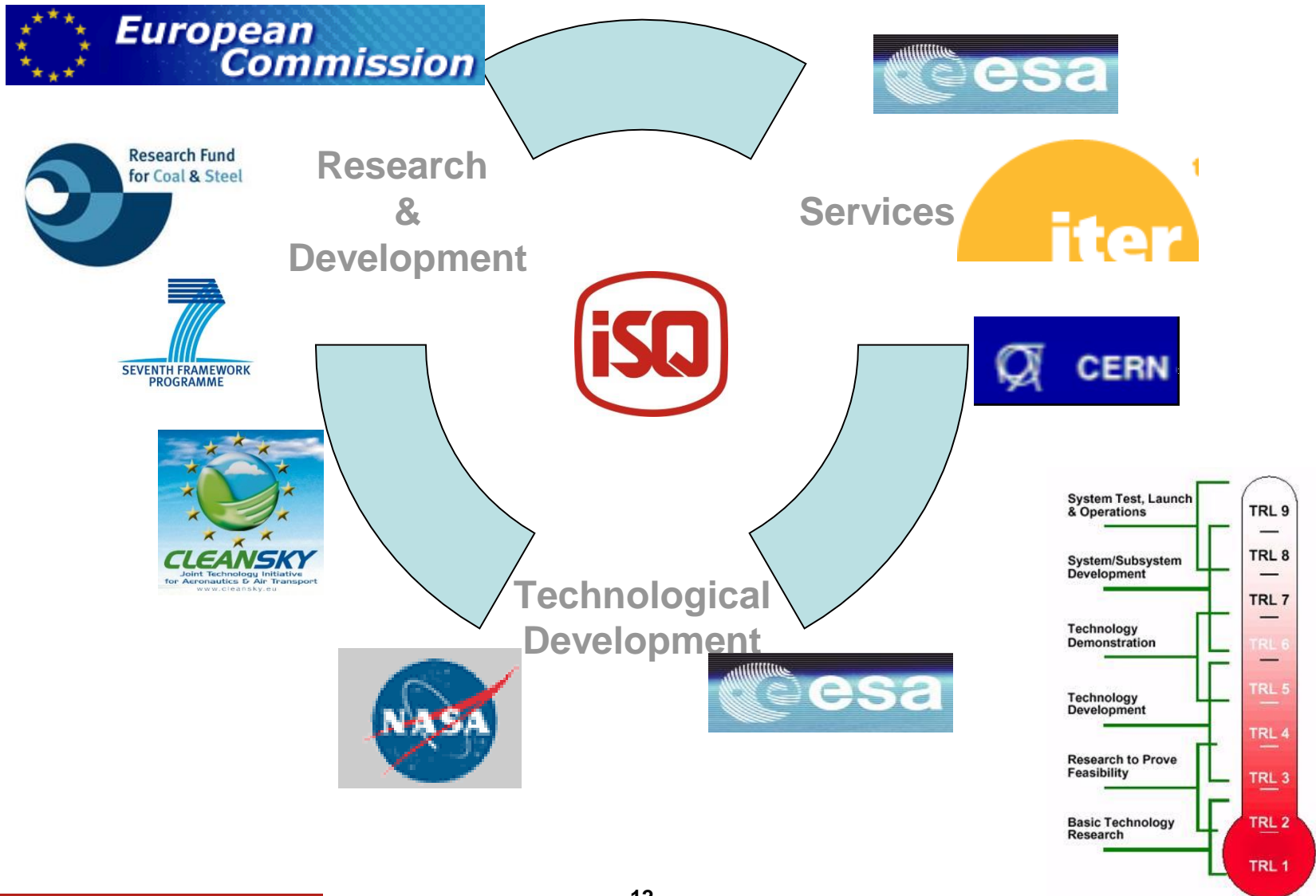


- International Partners
~ 1000
~ 30 different countries
- National Partners
~ 120
- Running projects
~ 50

Some Partnership references:

TWI, IST, TNO, MPA, SIEMENS, PHILIPS, ROLLS-ROYCE, FIAT, VOLVO, EUROCOPTER, NLR, INASMET, ESA, CERN, ABB, BAE, AGUSTA, ALENIA, AIRBUS, GASUNI, NASA, LOCKEED MARTIN, AEROMACHI, TNO, VW, NPL, GAZ DE FRANCE, GALP, THYSSEN, RWTH....

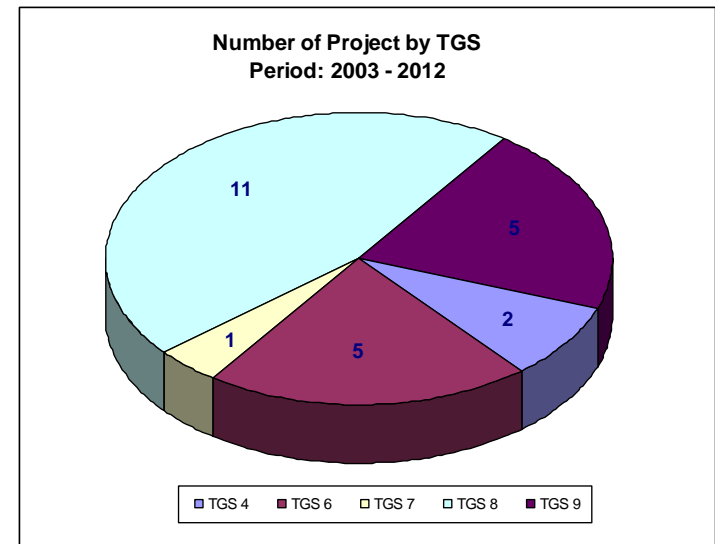
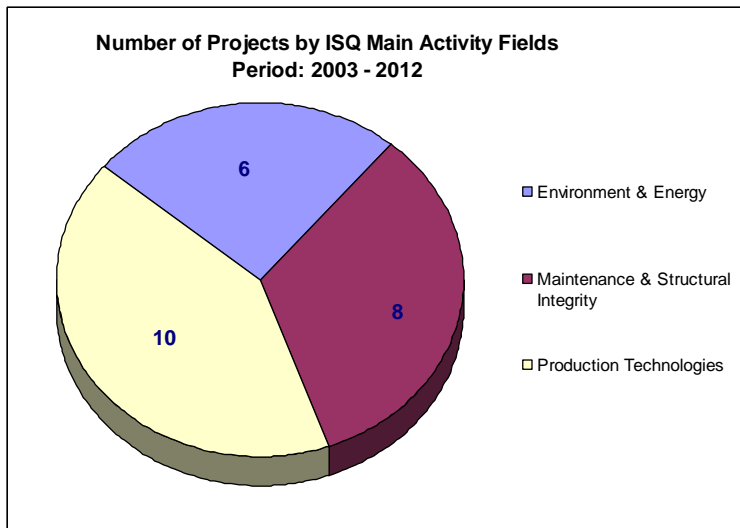
INTERNATIONAL COOPERATION



R&D BACKGROUND – RFCS

1987-2012

- ✓ Participation since 1987 in CECA and RFCS
- ✓ Around 24 projects between 2003-2012



Partnership references:

BS, Corus, Sidermor, Arcelor, Sidenor, Aceralia, Acerinox, CSM, CRM, Ascometal, Cenim, RWTH, Sidenor, VTT, Industeel, Ocas, Kimab, Inasmet, Labein, ...

ISQ in Technology Platforms & Working Groups



ESTEP – The European Steel Technology Platform



MANUFUTURE – Platform on Future Manufacturing Technologies



ISQ participation in RFCS Technical Groups

TGS5 – Finishing and Coating

TGS6 – Physical metallurgy and design of new generic steel grades

TGS7 – Steel products and applications for automobiles, packaging and home appliances

TGS9 – Factory wide-control, social and environmental issues

ISQ participation in Platform Working Groups



ESTEP – The European Steel Technology Platform

WG1 – Profit and Project Innovation

WG2 – Planet (Environment)

WG6 – Steel Solutions for Energy

Some Reference Projects

● RELOTEMP – Reuse of Low temperature heat

<350° for the reduction of CO₂ impact of the steel industry) (TGS9)

● SAFETOWER – Develop tailored manufacturing safe methods for wind towers erected in remote areas based on a integrated tower concept and optimal use of HSS reinforcing bars (TGS8) - **CO**

● INSTAP – Innovative steels grades for exhaust applications in the automotive industry (TGS7)

● CORINOX - Avoiding catastrophic corrosion failure of stainless steels (TGS6)

● LASERHARD – Laser treatment of profiled rolls (TGS4)

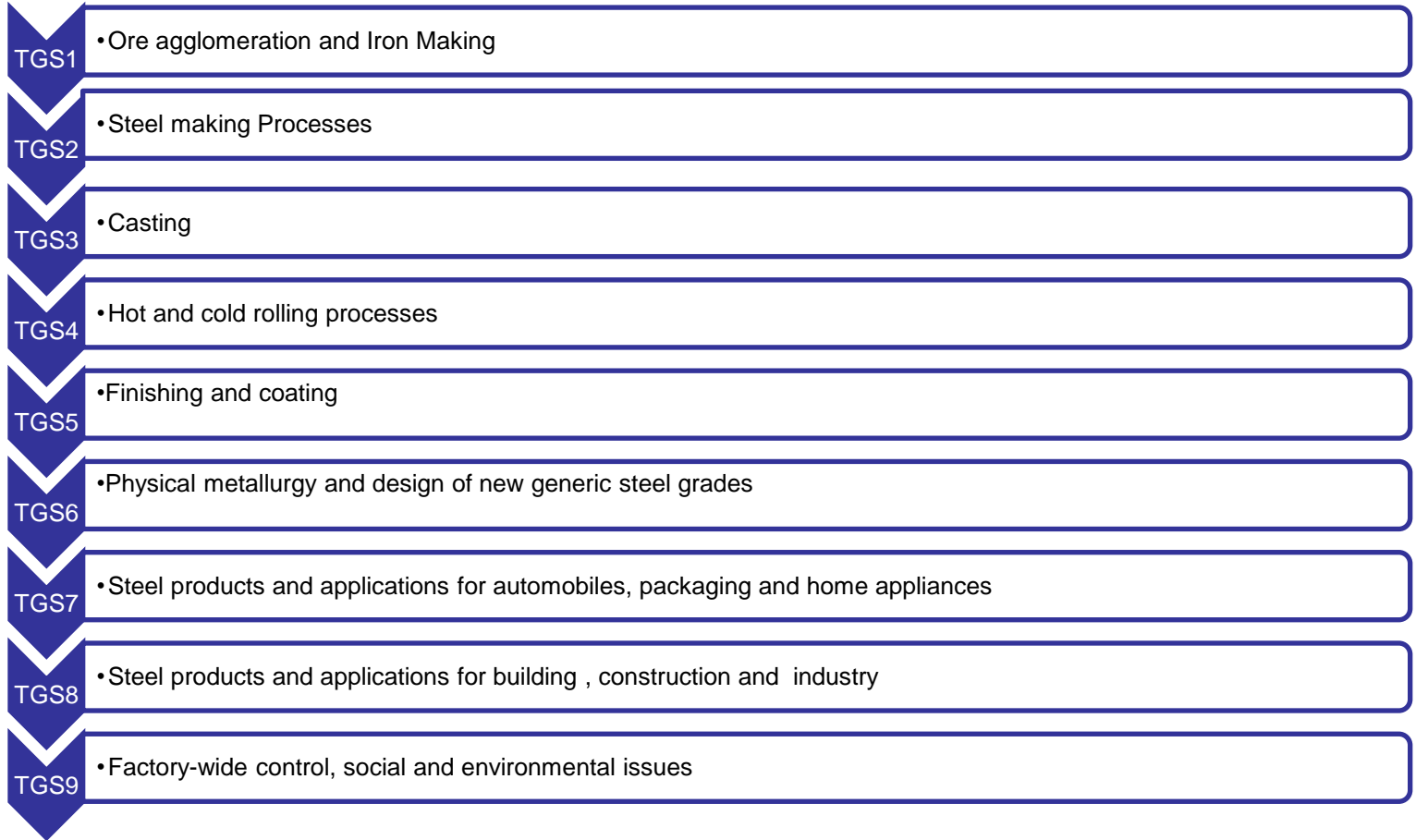
Phase 1 – Remote evaluation

- **Proposals evaluated by 3 different evaluators on a dedicated platform (SEP) per TGS producing IER**

Phase 2 – Central evaluation in Brussels

- **Consensus meetings with the participation of all evaluators and the EC Officer to produce a Consensus Report**
- Evaluator selection accordingly with their technical competences for each of the TGS
- Conflict of Interest are assessed

RFCS Technical Groups for Steel (TGS)



RFCS Evaluation Criteria

Depends on the type of project (Research, Pilot or Accompanying Measures)

Criteria for Research and Pilot/Demonstration projects

- Scientific and technical approach (3/5)
- Innovative Content (3/5)
- Consistency of resources and quality of partnership (2/5)
- Industrial interest and scientific/technical prospects (2/5)
- Added value for the European Union and Contribution to EU Policies (2/5)

Added 1 extra point if there is compliance with at least one of the Annual Research Priorities that are established by ESTEP.

Score: 12/25

RFCS Evaluation Scoring

0 – Fails or missing/incomplete information

Cannot be judged due too missing or incomplete information

1 – POOR

Inadequated addressed and/or serious weaknesses.

2 – FAIR

Significant weaknesses exists

3 – GOOD

Proposal well addressed, Improvements are required

4 – VERY GOOD

Proposal very well addressed, improvements still possible

5 – EXCELLENT

Proposal addresses sucessfully. Shortcomings are minor.

RFCS Evaluation Criteria

1 - Scientific and technical approach

Compliance with the objectives of the Steel Research;

Quality of the concept, the project objectives and proposed approach.

2 - Innovative Content

Innovative character face to the state of the art; Contribution to the technological advances. Technical risks and mitigation measures.

3 - Consistency of resources and quality of partnership

Quality of the workprogramme and methodology; Deliverables and Milestones; Project scheduling; Use of resources and quality of the consortium.

4 - Industrial interest and scientific/technical prospects

Industrial impact and use of resources.

5 - Added value for the European Union and Contribution to EU Policies

Contribution at European Level of the proposed research and policies (including social and environmental).

How to prepare a RFCS proposal



- The proposal preparation follows the Guidelines for applicants and **using on-line submission;**
- Several Forms should be filled by the coordinator and partners (Part A – Administrative; Part B – Proposal description)
;
- Limit number of pages in Part B should be respected;

How to prepare a RFCS proposal

General recommendations

- Identify clearly the proposal concept and interest to the steel community
- The state of the art should take into consideration previous RFCS projects (vd booklet with RFCS summaries)
- The consortium should include all relevant stakeholders from the supply chain and end-user
- Prepare with time the proposal and consortium
 - Deadline for submission is always in September
- Keep in mind the guidelines for applicants as well as for evaluation of proposals (put yourself into the evaluator skin)
- Proposals are evaluated face value – do not skip information that seems irrelevant but is related with the project approach or activities;
- Highlight the real need and industrial impact;



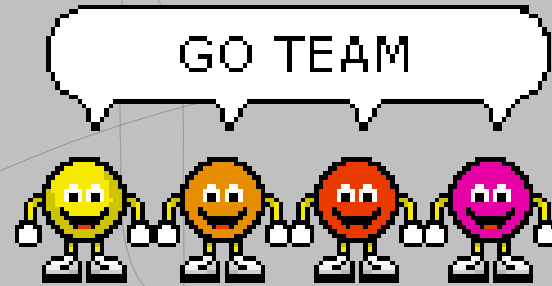
RFCS Usefull documents

- Information Package 2013 Vol I (Proposals preparation and submission)
- Guidelines for evaluation of proposals
- Abstracts of RFCS projects
- Annual prorities for Coal and Steel

http://cordis.europa.eu/coal-steel-rtd/home_en.html

Become a RFCS independent Expert

http://cordis.europa.eu/coal-steel-rtd/experts_en.html



Boas propostas

Muito obrigada

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