

# Opportunities under “Research Fund for Coal and Steel”



## Experience as a Technical Group member

**TGC 3 – Coal combustion, clean and efficient coal technologies  
and CO<sub>2</sub> Capture**

Dulce Boavida

Lisbon | 7<sup>th</sup> May 2014



# Who am I.....?

## Dulce Boavida

- Researcher @ LNEG
- Head of Unit – Energy Conversion and Storage

- First ECSC...in **1993**

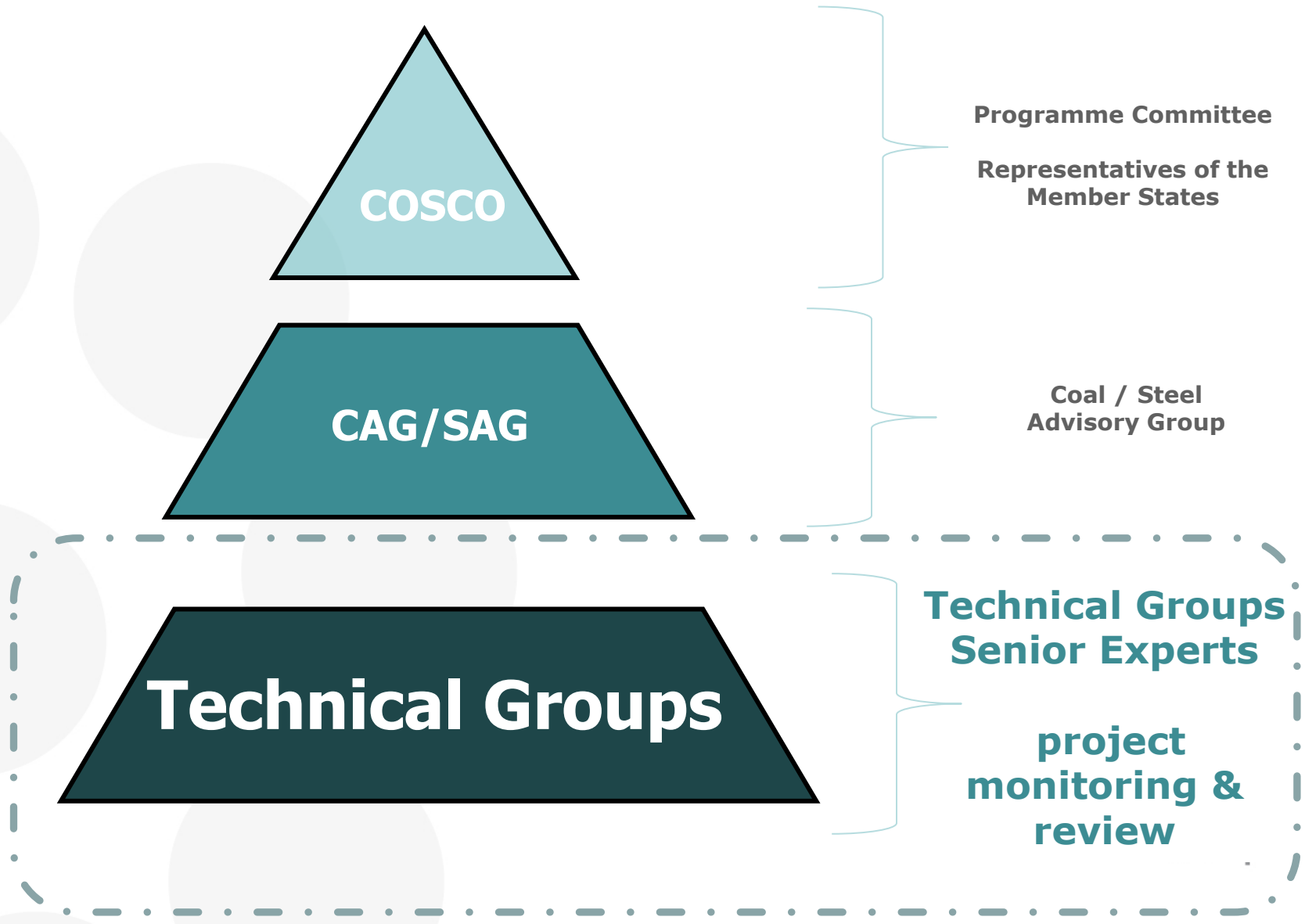
*CECA – 7220-ED/030 - “Understanding of the mechanisms of the combustion of chars and volatiles with regard to their contribution to the levels of  $\text{NO}_x$  and  $\text{N}_2\text{O}$ ”*

- Since 1993 ....have participated/coordinated 17 projects ECSC/RFCS on coal combustion and emissions control.



# RFCS Programme management

**The Commission**



# Membership – Appointment

Shall.....

- .....be individuals
- .....not represent a specific stakeholder
- .....be appointed by the Commission
- .....come from coal and steel industry or research organisations

Have.....

- .....responsibility for research strategy/management/production
- .....balanced range of expertise
- .....the broadest geographical representation
- .....gender balance

## RULES OF PROCEDURE OF THE COAL AND STEEL TECHNICAL GROUPS

THE COAL AND STEEL TECHNICAL GROUPS,  
Having regard to the Council Decision 2008/376/EC of 29 April 2008 on the adoption of the Research Programme of the Research Fund for Coal and Steel and on the multiannual technical guidelines for this programme<sup>1</sup> setting up the Coal and Steel Technical Groups,  
Having regard to the standard rules of procedure of expert groups<sup>2</sup>,



### Coal Priorities of the RFCS Programme for 2014

- 1.1 Management of environmental risks during or after mine closure
- 1.2 Prevention and mitigation measures for major accident hazards in coal mines like rock bursts, gas explosion, fire
- 1.3 Increasing the efficiency of mine production by utilising Information and Communication Technologies (ICT) for improved process optimisation
- 1.4 Improved monitoring of coke oven conditions
- 1.5 Upgrading of coal-derived liquids
- 1.6 Technological improvements targeting load flexibility and environmental performance of coal fired power plants
- 1.7 Pilot projects validation of emerging and innovating technologies leading to efficiency improvements and CO<sub>2</sub> capture

# Tasks of TGs

to **advise** the Commission,.....

“(A) on the **monitoring of research and pilot or demonstration projects** receiving funding under the Research Programme of RFCS,

.....

- (B) where necessary, on the **definition of the priority objectives** of the Research Programme.”

# RFCS Coal Research Objectives

- 4 . Improving the competitive position of Community coal
5. Health and safety in mines
6. **Efficient protection of the environment and improvement of the use of coal as a clean energy source**
7. **Management of external dependence on energy supply**







# TGC 3 – COAL COMBUSTION, CLEAN AND EFFICIENT COAL TECHNOLOGIES, CO<sub>2</sub> CAPTURE

- Clean and efficient coal combustion
- Integration of the coal chain, from mining to the final product (electricity, heat, hydrogen, coke)
- Carbon management strategy
- Reduction of the environmental impact of installations using EU coal, lignite and oil shale
- Reduction in emissions from coal utilization
- Clean and efficient coal technologies
- CO<sub>2</sub> capture
- Co-combustion of coal with solid waste or biomass
- Zero emissions and high efficient power generation
- CHP from coal
- Coal contribution to global energy security

# Reports



Comissão  
Europeia

CIRCABC

- Reports to be reviewed at each project monitoring meeting shall be accessible on the CIRCABC



# Meetings

- Once/year – June (10-12 June 2014)
- be held at venues chosen in such a way that project monitoring and assessments of results are best ensured.



# Confidentiality of deliberations & Conflicts of interest



# Very Positive Experience!



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**Thank you for your attention**

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