

Mi az RFCS Program?

http://ec.europa.eu/research/industrial_technologies/rfcs_en.html

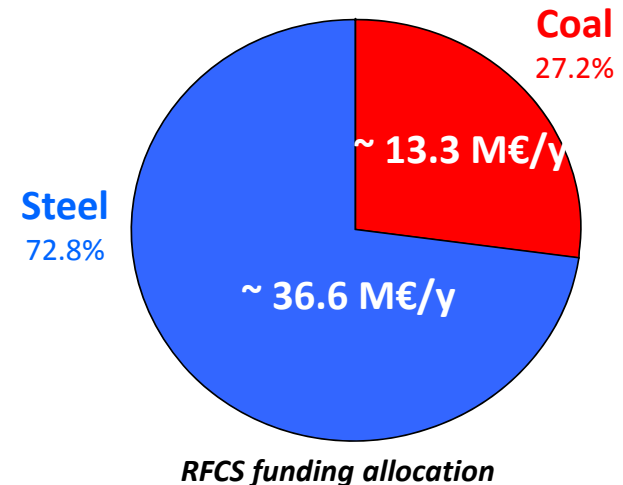
Évente ~50-60M€ IPARI KUTATÁSRA

- Coal
- Steel

Folytonos felhívások-évente kb. június 15-én megnyitva

- Kutatási projektek (60% támogatás)
- Pilot & Demonstration (40% támogatás)
- Accompanying measures, as
 1. Information exchange & dissemination activities
 2. Promotion of knowledge gained
 3. Training & mobility of researchers
- **Beadási határidő: Szeptember 15**

H2020-tól független, de azt kiegészítő és a lehetséges összhangra törekedve





RESEARCH & INNOVATION

Key Enabling Technologies

European Commission > Research & Innovation > Key Enabling Technologies > RFCS



Research Fund for Coal and Steel (RFCS)

News and events

April 2015

You can now download [Information package vol.2](#)

March 2015

Information on [Steel](#) and [Coal](#) Priorities available.

February 2015

The RFCS is launching a call for applications to include Members of Advisory Groups (CAG and SAG) on a reserve list.



Research Fund for Coal and Steel

Contact

For general information about our programme, if you have queries or want to share your views please contact us at:

RTD-STEEL-COAL@ec.europa.eu.

A pályázatokat kiíró szervezet

COal and Steel COmmittee (COSCO)

Coal and Steel

Directorate D – Key Enabling Technologies

Directorate General Research & Innovation

European Coal and Steel Community Treaty (ECSC)

- 1952-2002



- Maradt: 1.6 Milliárd € (jelenleg kb. 2 Milliárd €)

SZÉN

- döntő szereplő a világ energiatermelésében
- kb. 40% az elektromos energiában (28 % az EU-ban)

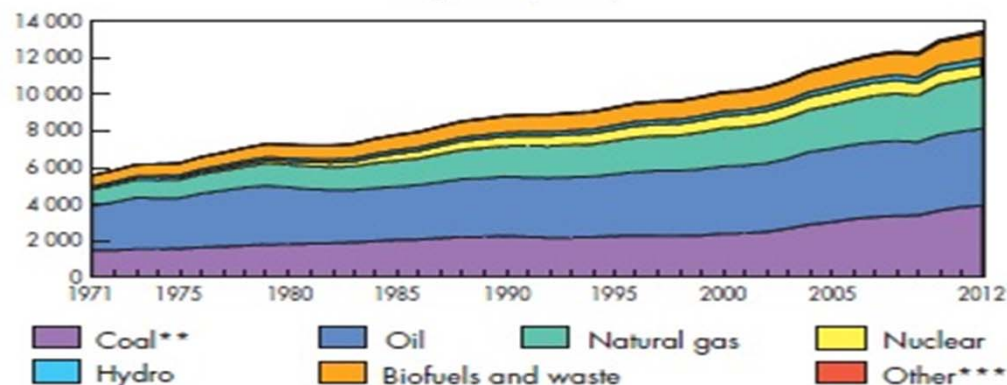
(forrás: IEA Key World Energy Statistics 2014)



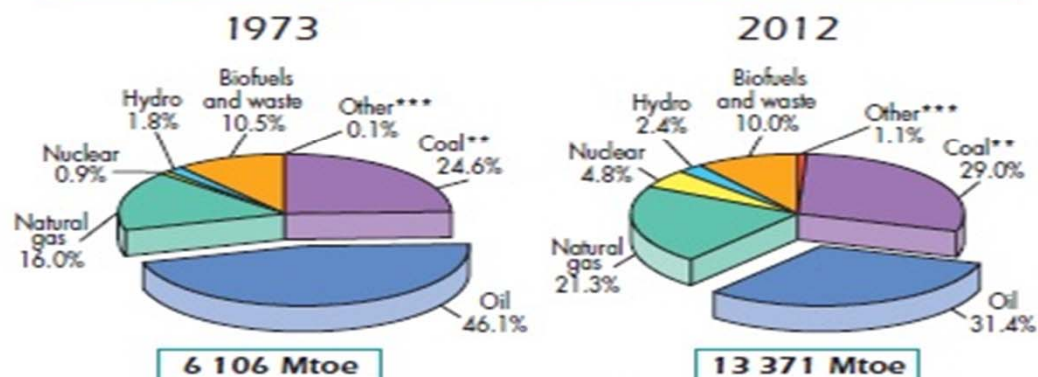
TOTAL PRIMARY ENERGY SUPPLY

World

World* total primary energy supply from 1971 to 2012 by fuel (Mtoe)

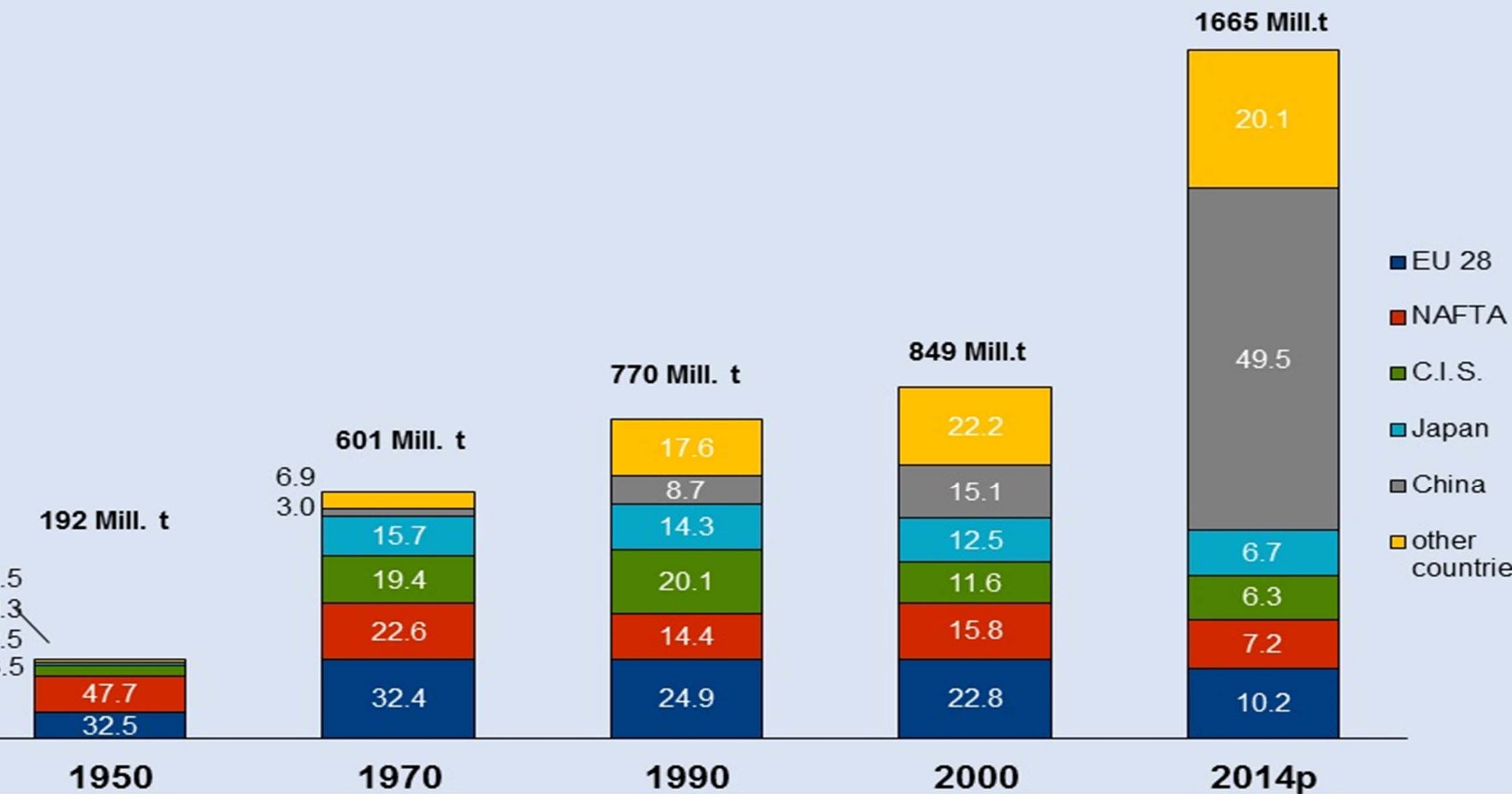


1973 and 2012 fuel shares of TPES



*World includes international aviation and international marine bunkers.
 **In these graphs, peat and oil shale are aggregated with coal.
 ***Includes geothermal, solar, wind, heat, etc.

World crude steel production by region (in %)



RFCS ALAP (RESEARCH FOUND FOR COAL AND STEEL)

- A SZÉN

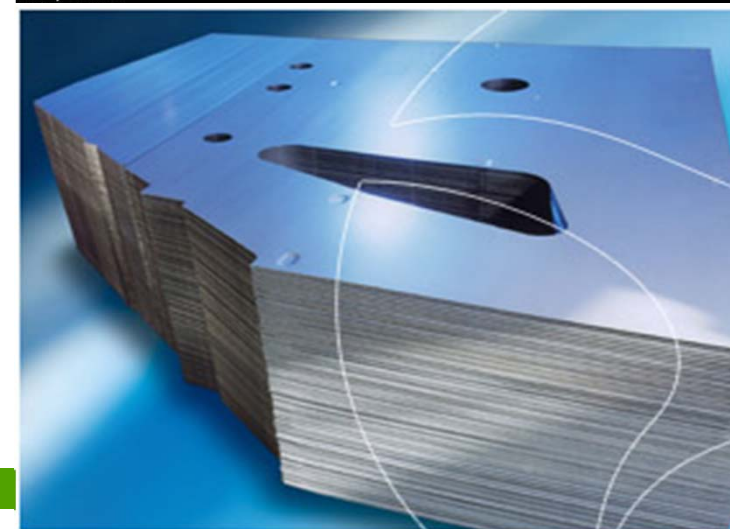
Döntő szereplő a világ energiatermelésében,
(28 % az EU az elektromos energia
termelésben, és fontos ipari nyersanyag)

- Az ACÉL

Az acélipar nagy hagyományokkal rendelkezik
Európában. Európa több mint 500 acélgyára
közvetlenül 360 ezer munkavállalót foglalkoztat.



Alamy BYA633



2001: Nizzai szerződésben (intézkedésként)

- To transfer the ECSC assets (originally paid by industry) to the European Community and to create the Research Fund for Coal and Steel (RFCS)

utilise the interests generated by these assets

(yearly returns (~60 M€))

- Szén és acélipari kutatások finanszírozására(cofinance)- RFCS:
- 1 February 2003: RFCS megalapítása **(2003/76/EC)**
- Technikai vezérvonal és Kutatási program **(2008/376/EC)**

SZERVEZETEK

- ACÉL:

- <http://cordis.europa.eu/estep/>

- <http://www.eurofer.org/>

- <http://www.worldsteel.org/>

-

- SZÉN:

- <http://www.zeroemissionsplatform.eu/>

- The European Association for Coal and Lignite – EURACOAL

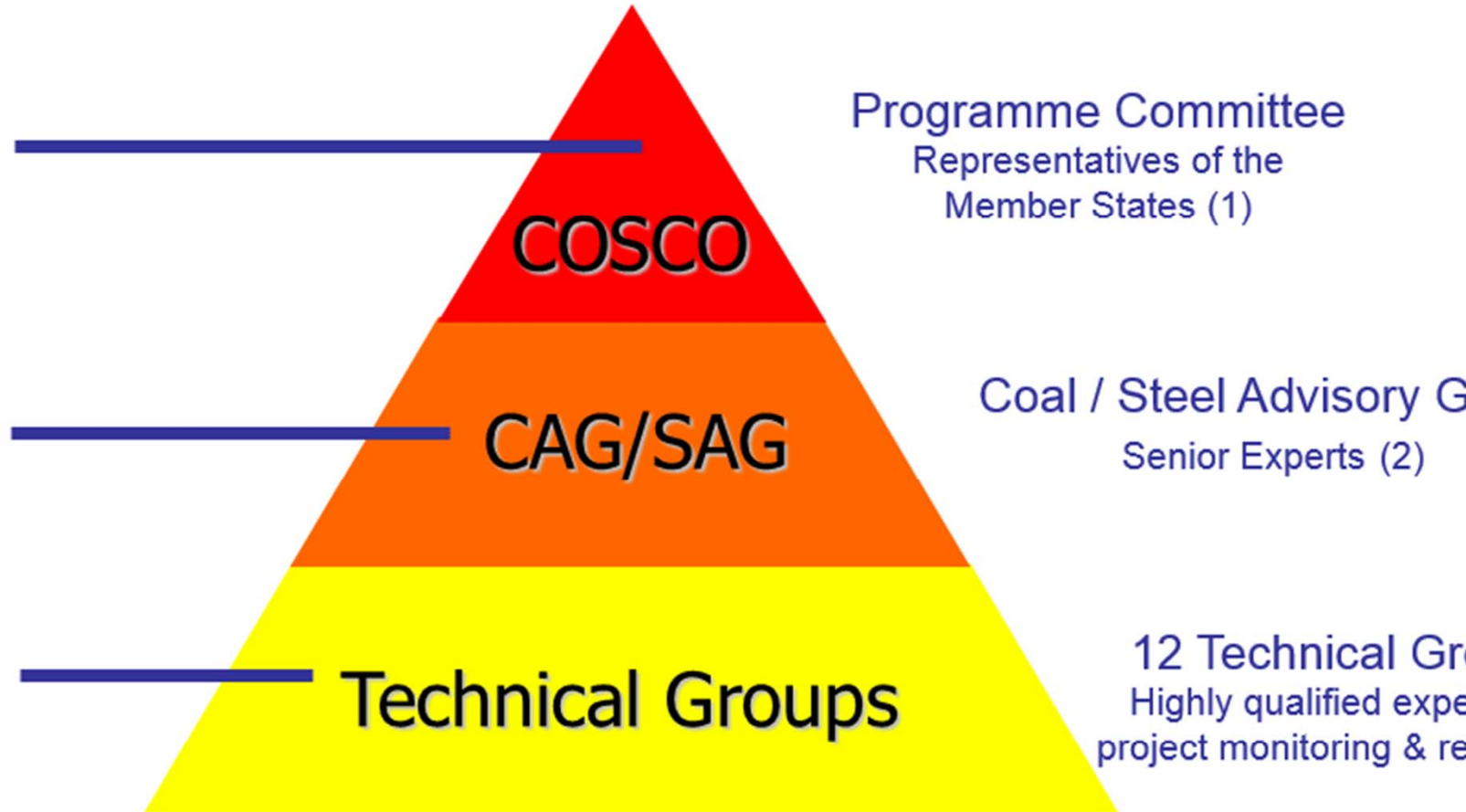
- <http://www.euracoal.be/pages/home.php?idpage=1>

- <http://www.worldcoal.org/>



RFCS Programme Management

The Commission



+ independent Evaluation Experts for selection of projects ²⁾





RESEARCH & INNOVATION

Key Enabling Technologies

European Commission > Research & Innovation > Key Enabling Technologies > RFCS



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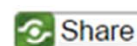
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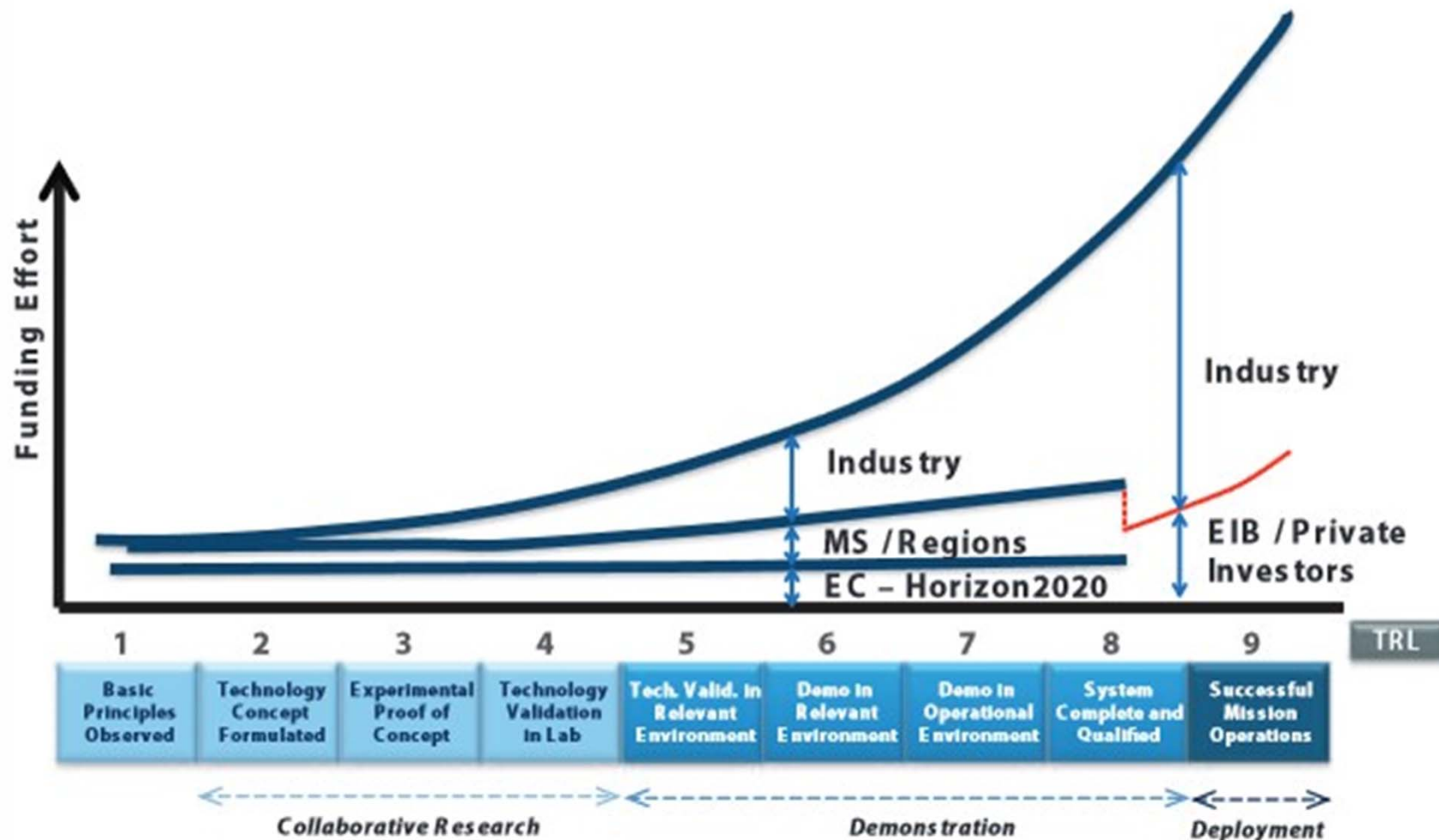
INFORMÁCIÓS CSOMAG 1. kötet 2015

- http://ec.europa.eu/research/industrial_technologies/rfcs_en.html
- Június 15-én
- Jelenleg elérhető:
http://ec.europa.eu/research/industrial_technologies/pdf/rfcs/infopack1-2014-en.pdf
- **FINANCIÁLIS ESZKÖZÖK:**
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/other/index.html>
- <http://europa.eu/youreurope/business/funding-grants/access-to-finance/>
- <http://www.eib.org/products/blending/innovfin/products/index.htm>
-

AZ INNOVÁCIÓ FINANSZÍROZÁSA

AZ RFCS ALAP támogatási intenzitása jellemzően 40-60%.

Overall synergy between private and public investments, highlighting industry leverage factor



Milyen CÉLOKRA vonatkozik a kiírás

http://ec.europa.eu/research/industrial_technologies/rfcs_en.html

proposal must address at least one of the research objectives of the RFCS programme for the relevant topic, namely Articles 4 to 7 of the RFCS Legal Basis for proposals in the topic “Coal” and Articles 8 to 10 for proposals in the topic “Steel” (see Annex I to this Information Package).

1. to the production, preparation, conversion or utilisation of **coal**.

szént termelése, előkészítése, átalakítása és hasznosítása

2. to the production and/or processing of iron and/or **steel** or to their

properties, manufacture and/or utilisation of **steel** products,

acél előállítás, gyártás, processzálas, hasznosítás, minőségi átalakítás

http://ec.europa.eu/research/industrial_technologies/pdf/rfcs/infopack1-2015-01_en.pdf

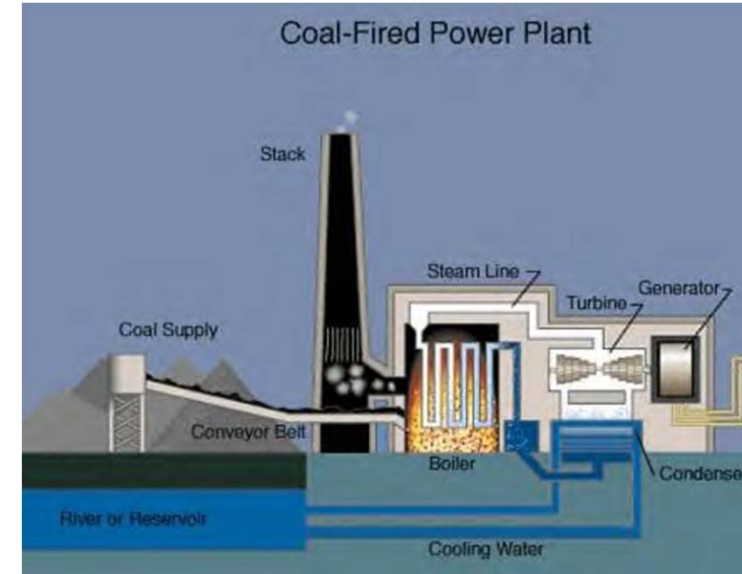
http://ec.europa.eu/research/industrial_technologies/pdf/rfcs/summaries-2015-01_en.pdf

Type of Activity	Description	EU co-financing	Duration	Consortium
Research projects	Investigative or experimental work	≤60%	No specific requirement (typical duration is 36 or 42 months)	No specific requirement (typical consortium size is between 5 and 10 partners with wide geographical representation)
Pilot & demonstration projects	Construction and/or operation of an installation at pilot or demonstration scale	≤50%		
Accompanying measures	Dissemination and valorisation of knowledge	≤ 60%	No specific requirement (typical duration is	

SZÉN PRIORITÁSOK 2015

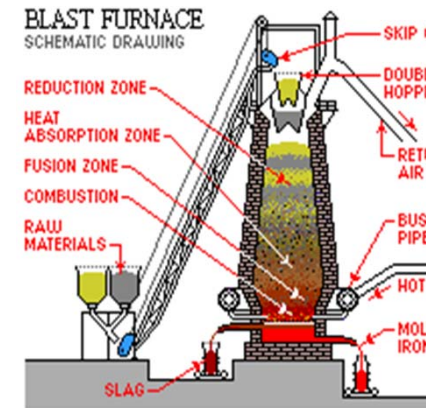
- .1 Management of environmental risks during OR after mine operation
- .2 Increasing the efficiency of mine production by utilising Information and Communication Technologies (ICT) for improved process optimisation
- .3 Improved monitoring of coke oven conditions
- .4 Upgrading of coal-derived liquids
- .5 Technological improvements targeting load flexibility AND environmental performance of coal fired power plants
- .6 Pilot projects validation of emerging AND innovating technologies leading to efficiency improvements AND CO2 emission reduction

Additional bonus point will be granted to research, pilot and demonstration proposals if they address at least one of the annual priorities in the relevant topic (see Annex V to the Information Package). The additional priority bonus point is not granted to accompanying measures.



Acél Prioritások 2015

- 2.1 Improved energy efficiency in high temperature processes by recovery of waste heat without drawback on environmental impact compared to present best available technologies
- 2.2 Integration of process monitoring (online/offline) AND control AND technical management of steel production using mathematical methods for a multi-criteria optimisation of steel production with respect to at least two of the following aspects: productivity, resource efficiency, product quality
- 2.3 New OR improved resource efficient processes to transform low quality primary raw materials OR secondary raw materials (e.g. slag, dust, scale, sludge, low quality scrap) into valuable products
- 2.4 Solutions directly aiming at minimizing the ecological footprint of the Steel Works with respect to one of the following issues: air, water, soil, biodiversity, CO2 emissions
- 2.5 Measurement AND on-line control of mechanical properties, through either new measurement techniques OR improved physical models
- 2.6 Development of new steel grades with improved technological property combinations (e.g. strength, formability, toughness, etc.) enabling more efficient steel applications (e.g. weight reduction, energy absorption, thermal shock resistance, wear ...)
- 2.7 Development of steel solutions for transport OR sustainable construction (focusing on energy efficiency AND carbon neutralisation) OR energy applications (including renewables) with improved life cycle assessment (LCA) results
- 2.8 Safety of steel infrastructures (e.g. tubes, pipes, pipelines, vessels, fittings, structural elements) for cost-efficient fluid storage AND transportation in the energy sector
- 2.9 Improvement of working conditions in steel production through innovative solutions by use of both modelling AND monitoring activities linked to health OR safety aspects risk management



GC1 - Coal mining operation, mine infrastructure and management, unconventional use coal deposits

GC2 - Coal preparation, conversion and upgrading

GC3 - Coal combustion, clean and efficient coal technologies, CO2 capture

GS1 - Ore agglomeration and Ironmaking

GS2 - Steelmaking processes

GS3 – Casting

GS4 - Hot and cold rolling processes

GS5 - Finishing and coating

GS6 - Physical metallurgy and design of new generic steel grades

GS7 - Steel products and applications for automobiles, packaging and home appliances

GS8 - Steel products and applications for building, construction and industry

GS9 - Factory-wide control, social and environmental issues

SCHEDULE OF THE 2014 EVALUATION EXERCISE

The selection of proposals to be funded consists of the following steps. The dates presented in this table might be subject to change.

Proposal Submission Deadline	15 September 2014, 17:00:00 Brussels local time
Evaluation Session Coal – Remote	29 September – 17 October 2014
Evaluation Session Coal – Central (TGC1, TGC2, TGC3)	22 – 24 October 2014
Evaluation Session Steel – Remote	6 – 24 October 2014
Evaluation Session Steel 1 – Central (TGS5, TGS6, TGS7)	5 – 7 November 2014
Evaluation Session Steel 2 – Central (TGS4, TGS9)	10 – 12 November 2014
Evaluation Session Steel 3 – Central (TGS1, TGS2, TGS3)	12 – 14 November 2014
Evaluation Session Steel 4 – Central (TGS8)	17 – 19 November 2014
CAG Meeting	3 December 2014
SAG Meeting	15 January 2015
COSCO Meeting	12 February 2015
Notification of evaluation results to applicants	before 15 March 2015
Adoption of the implementing act (Commission Decision)	May 2015
Grant Agreement signature for projects retained for funding	before 15 June 2015
Typical start date of projects	1 st of July 2015

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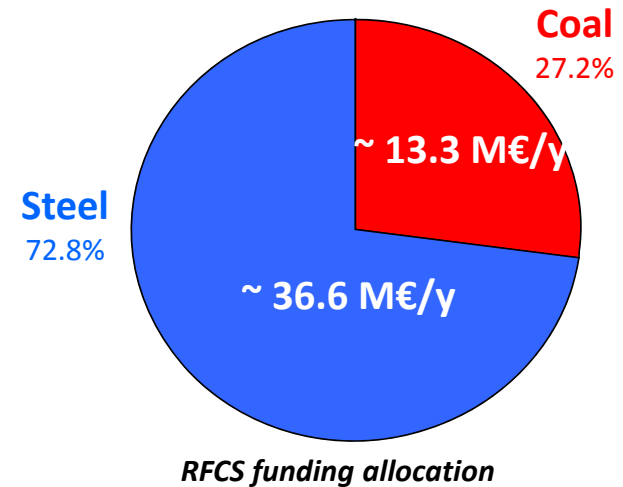
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Hazai Pályázati Rendszer

- 1. NKFI Alap:
 - Alap kutatás (OTKA)
 - KMR pályázatok (GINOP 2 tükörpályázatai)

1. melléklet az 1262/2015. (IV. 30.) Korm. határozathoz

A Nemzeti Kutatási, Fejlesztési és Innovációs Alapból 2015. évben meghirdetendő pályázatok

- 2. GINOP _Uniós Forrásból <http://palyazat.gov.hu/>
- 3. Nemzetközi Pályázatok
 - H2020 és egyéb
 - Kétoldalú együttműködések
 - Regionális

Honlapok

- <http://nkfi.gov.hu/>
- <http://nkfia.kormany.hu/>
- <http://h2020.gov.hu/>
- <http://www.otka.hu/>
- <http://www.s3magyarorszag.hu/>
- <http://market.nkfi.gov.hu/>
- <http://kaleidoszkop.nih.gov.hu/>

A GINOP STRUKTÚRA

PÁLYÁZATOK	ÖSSZEG Mrd Ft	ARÁNY
GINOP 1 KKV	490,410	17.95%
GINOP 2 KFI	523,161	19.15%
GINOP 3 IKT	140,986	5.16%
GINOP 4 ENERGIA	69,922	2.56%
GINOP 5 FOGLALKOZTATÁS	530,907	19.43%
GINOP 6 KÉPZÉS	135,543	4.96%
GINOP 7 TURIZMUS	111,764	4.09%
GINOP 8 PÉNZÜGYI ESZKÖZÖK	729,486 ebből 192,2 Mrd Ft KFI területre!	26.70%
ÖSSZESEN	2,732,182	100.00%

PÁLYÁZATI KIÍRÁSOK

HAZAI INNOVÁCIÓ TÁMOGATÁSA	2015. ÉVI KÖTELEZETTSÉGVÁLLALÁS Mrd Ft	ÖSSZES KERET Mrd Ft
Iparjog – Szellemi alkotások oltalma	0,2	0,3
Innovációs voucher	0,5	1,0
Innovációs ökoszisztéma (start-up és spin-off)	0,5	1,5
K+F versenyképességi és kiválósági együttműködések – integrált projektek	1,0	2,5
Felsőoktatási és Ipari Együttműködési Központ – kutatási infrastruktúra fejlesztése	1,5	4,0
Pre- és posztdoktori kiválósági program	0,7	1,6
Nemzeti kutatás-fejlesztési és innovációs programok	2,7	6,6

Köszönöm a figyelmet