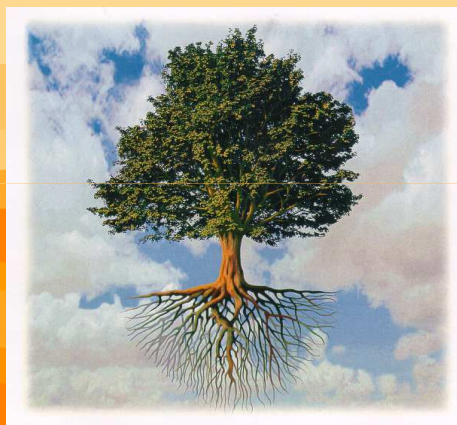


# The next step for FET

## FET in 2011-2012

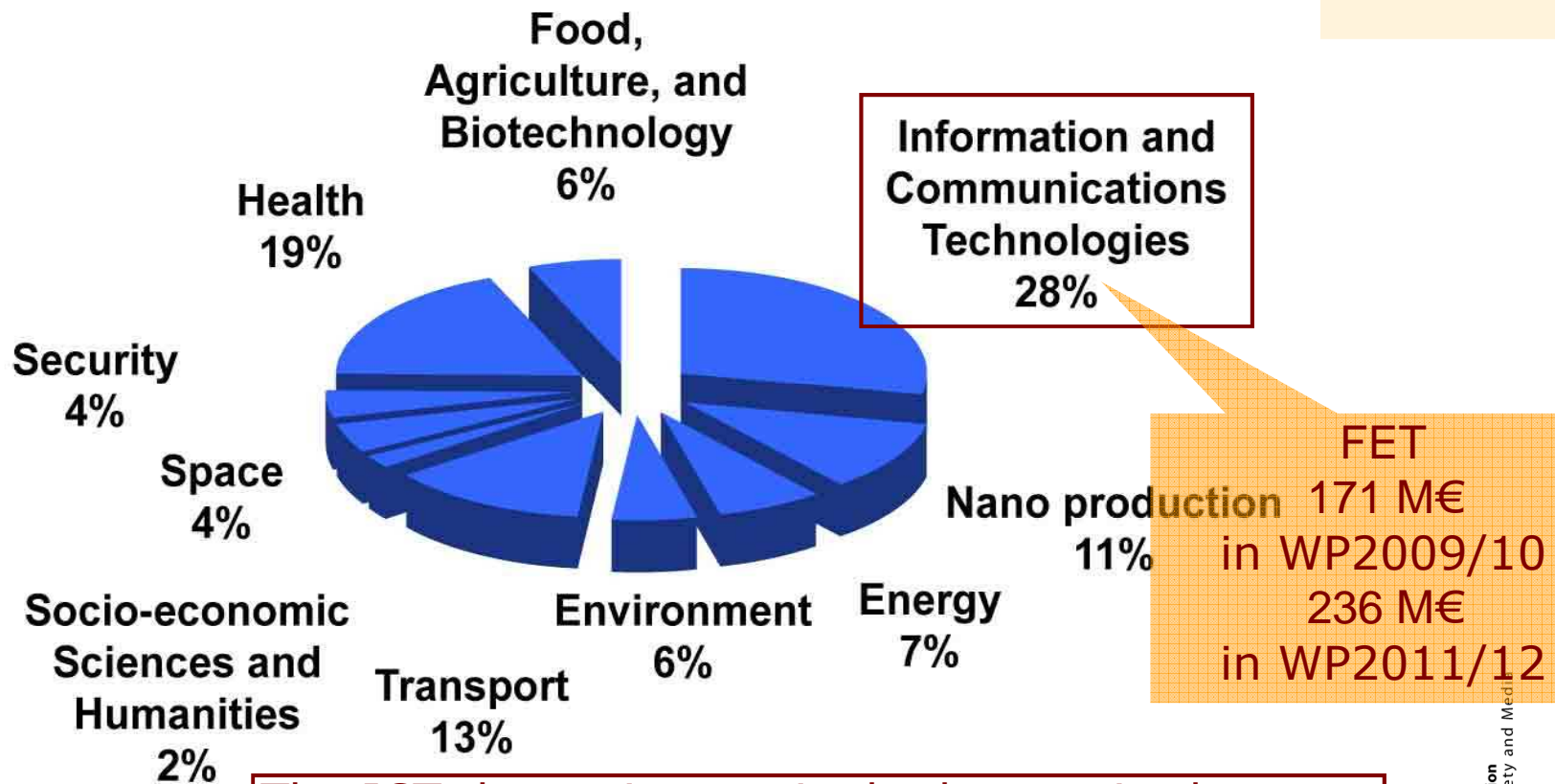
### (Objectives ICT-2011.9.1-14)



## Future and Emerging Technologies

# FET in the context of FP7

## 10 thematic areas for collaborative research

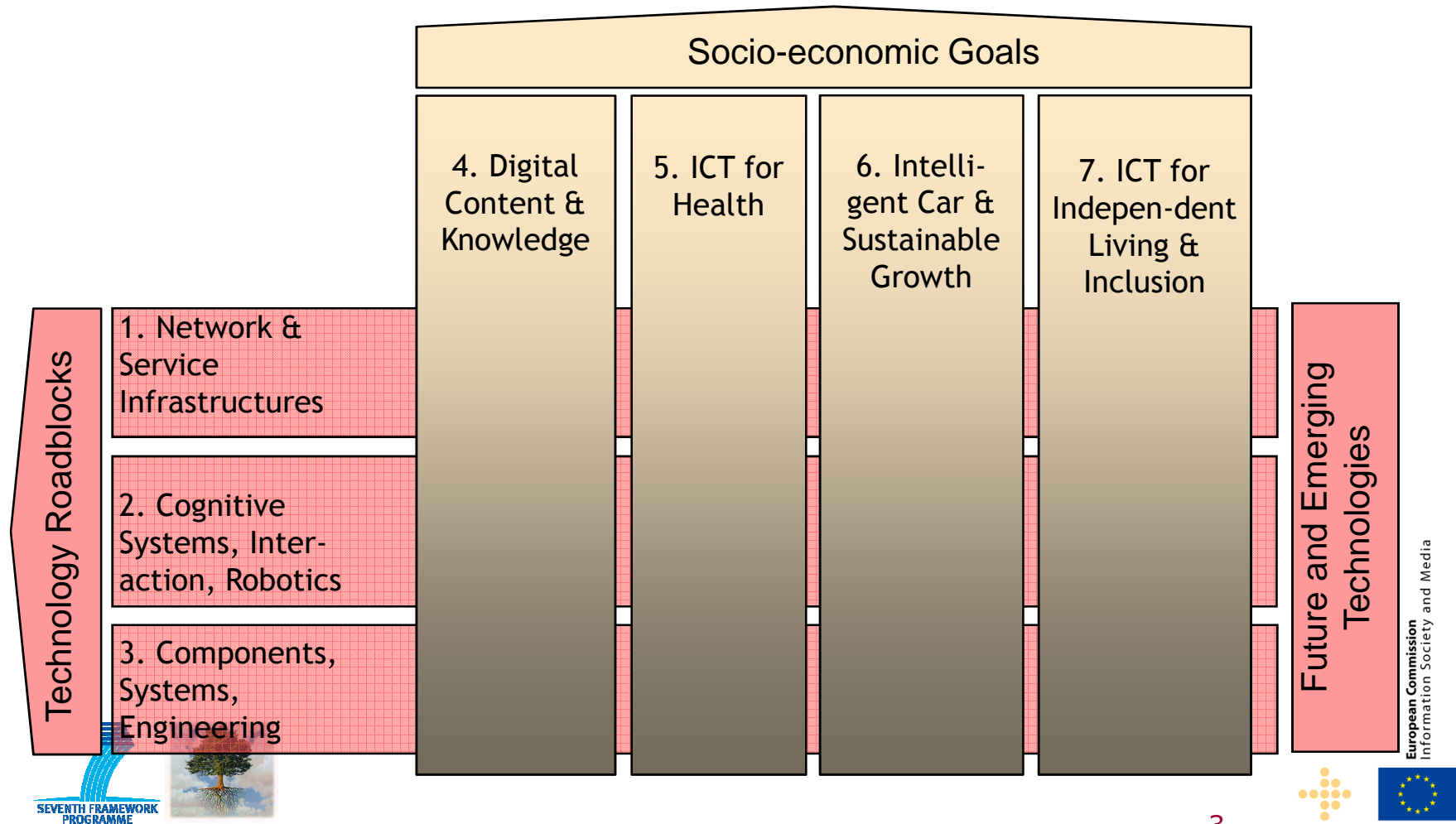


**FET**  
171 M€  
in WP2009/10  
236 M€  
in WP2011/12

The ICT thematic area is the largest in the Cooperation program with a budget of € 9,1 billion (28% of the total budget)

# 'Official' role of FET in WP

## Pathfinder for new core ICT topics



# Outline

- The FET Strategy
- The WP 2011-2012
- FET Flagships
- Coordination actions

# FET Mission

Supporting the emergence of new visionary ICT research

1. Exploratory research to try out new ideas, new paradigms or open up new research avenues
2. Focused on high risk/high pay-off multi- and inter-disciplinary S&T research
3. Aimed at foundational breakthroughs with transformative long-term impact
4. Complemented with a variety of activities to create the best conditions to make this happen, and for maturing & structuring emerging research fields, research communities and research practices

# FET Open and FET proactive and...

## FET-Open

Light 2-step scheme  
Topic-agnostic  
Exploratory  
Deadline-free

FET-proactive  
Targeted  
Critical mass  
Consolidating  
Fixed calls

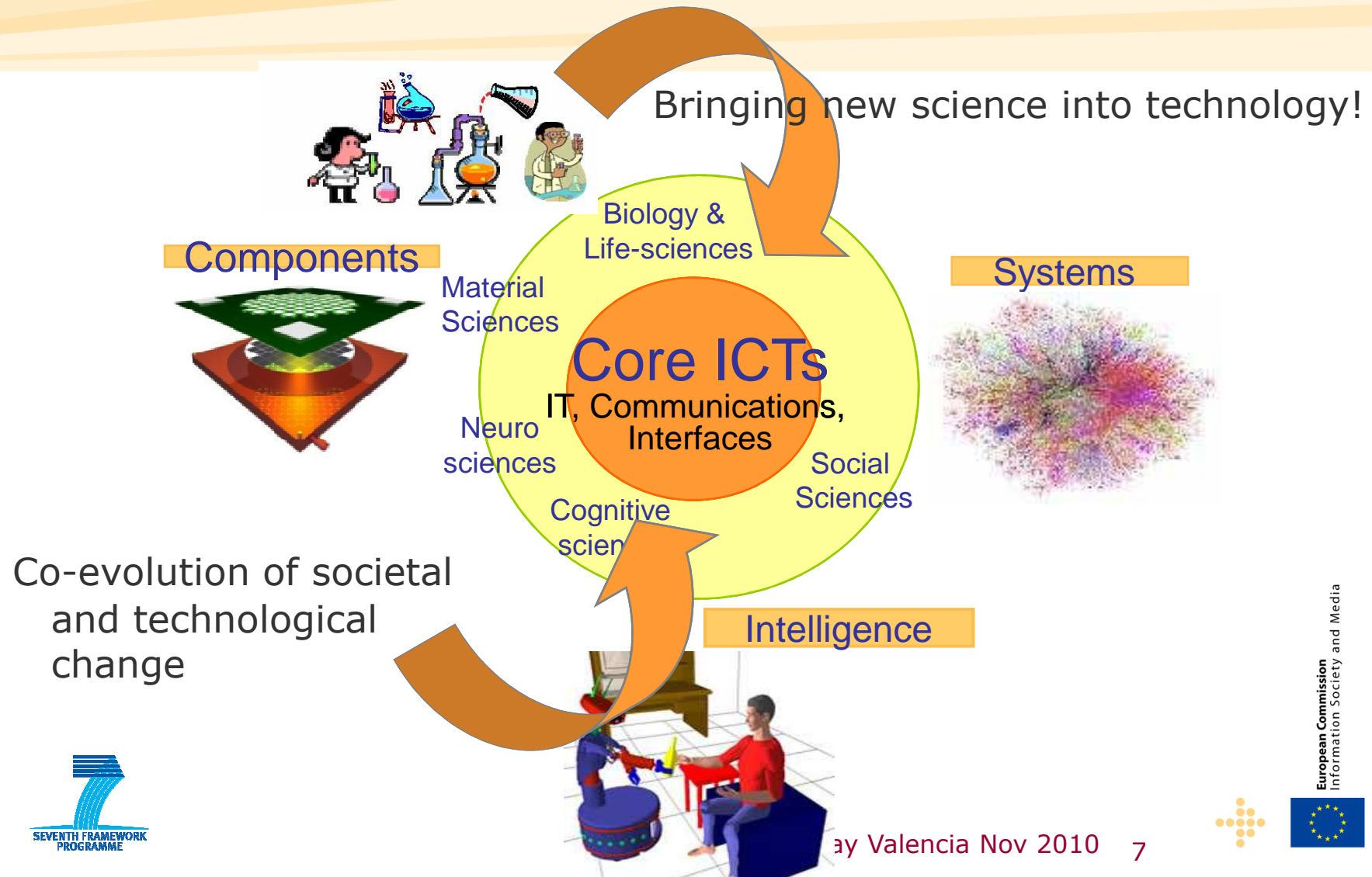
## FET Flagships

Large scale

Defragmentation of resources  
Research-driven innovation engines



# FET: multidisciplinary transformative research



# New Perspectives for FET

by the communication from the Commission to Parliament and Council adopted on 20 April 2009

**COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS**

**Moving the ICT frontiers –  
a strategy for research on future and emerging technologies in Europe**

- 20% annual budget increase (2011-13); European target: doubling by 2015
- Flagship initiatives
- ERA-NETs
- International collaboration
- Young researchers
- SMEs

Endorsed by the 04/12/2009  
conclusions of the Competitiveness  
Council of the European Union



# FET Proactive – WP 2011-2012

transformative and foundational research

## Call FET-F

FET Flagship Initiative Preparatory Actions (CSA)

10M€

## Call 7

9.12 ERA-NET follow-up (CSA)

2,5M€

0,5M€

## Call 8

9.6 Unconventional Computing (STREP)

15M€

9.7 Dyn. of Multi-Level Complex systems (IP/Strep)  
INCO dimension (CSA)

1M€

22M€

9.8 Minimising Energy Consumption of  
Computing to the Limit (Strep)

15M€

## Call 9

9.9 Quantum ICT (IP/Strep)  
including ERA-NET Plus (ERA-NET-Plus)

15M€

7M€

9.10 Fundamentals of Collective  
Adaptive Systems (IP/Strep)

23M€

9.11 Neuro-Bio-Inspired Systems (IP/Strep)  
INCO dimension (CSA)

22M€

1M€

9.12 INCO (CSA)

9.12 Coord. Communities (CSA)

9.12 organising conferences (CSA)

9.12 Identifying new FET topics (CSA)

3M€

3M€

# Timetable for Workprogramme 2011-2012

- 30 July – 2 Dec 2010: FET Flagship call
- 28 Sept 2010 - 18 Jan 2011: call 7
- 26 July 2011 – 17 Jan 2012: call 8
- 18 Jan 2012 – 17 April 2012: call 9

# FET Proactive – WP 2011-2012

transformative and foundational research

Call FET-F 9.5 FET Flagship Initiative Preparatory Actions (CSA)

10M€

Call 7

9.12 c. Identifying new FET topics (CSA)

0,5M€

9.12 d. Organsing conferences (CSA)

9.12 e. ERA-NET follow-up (CSA)

2,5M€

Call 8

9.12 a. Emerging research communities (CSA)

3M€

9.12 b. INCO

Call 9

9.12 c and d, not e

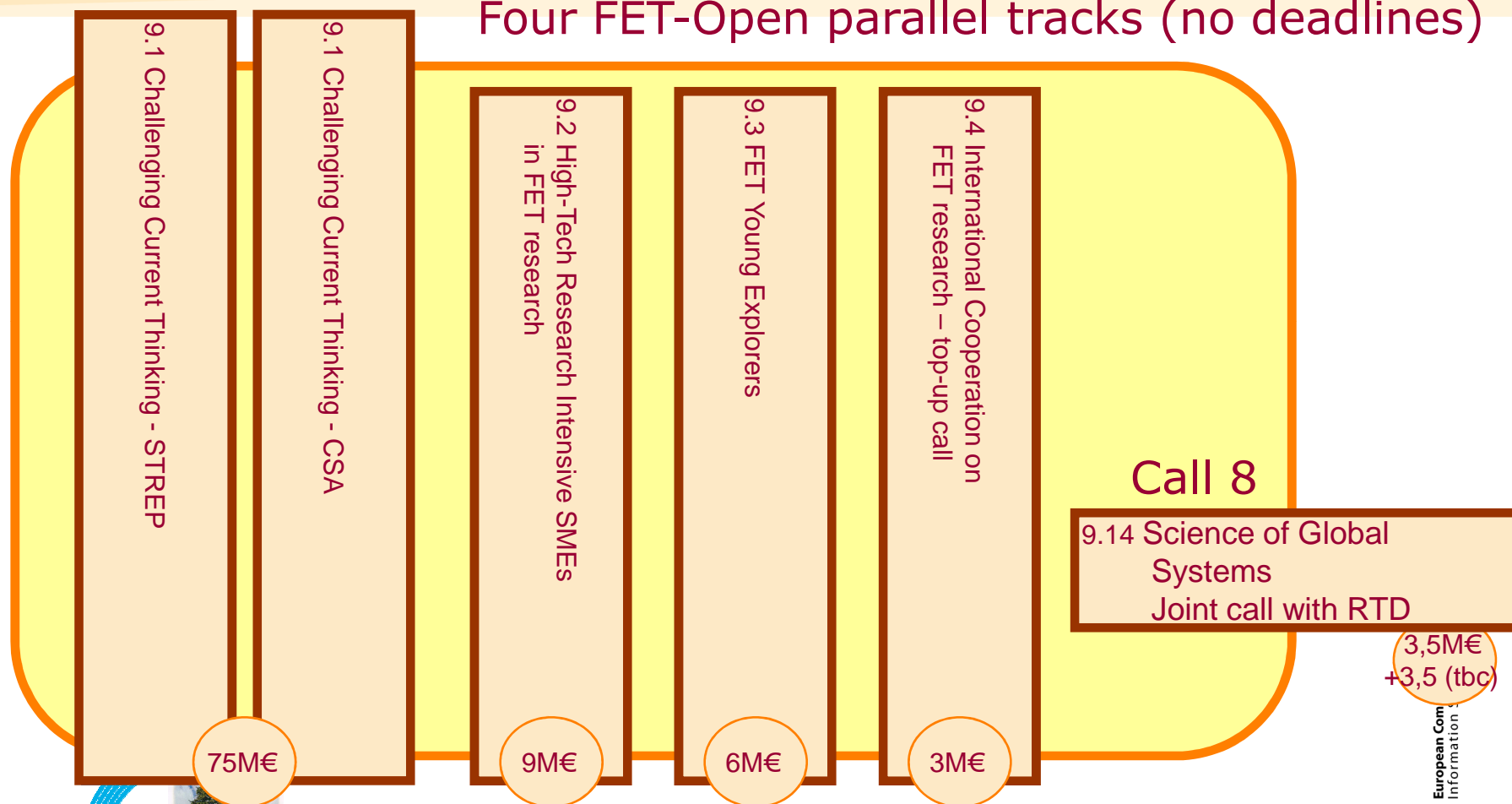
2.5M€



# FET Open – WP 2011-2012

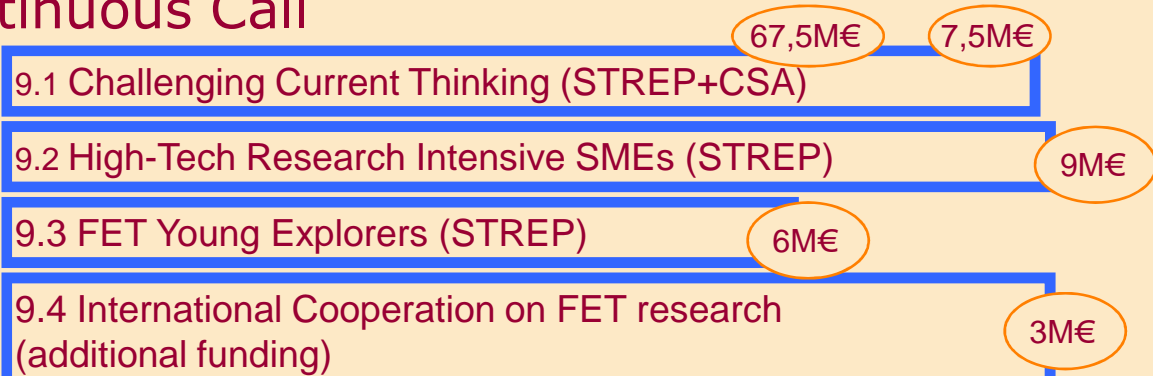
Incubator for radically new research ideas  
and future research and innovation potential

Four FET-Open parallel tracks (no deadlines)

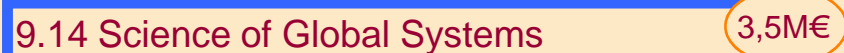


# Continuous and special calls

## Continuous Call



## Call 8



# FET FLAGSHIPS



[http://cordis.europa.eu/fp7/ict/programme/fet/flagship/home\\_en.html](http://cordis.europa.eu/fp7/ict/programme/fet/flagship/home_en.html)



Programme Communication  
Information Society and Media



# Policy relevance of FET Flagships

- The EU2020 strategy "A strategy for smart, sustainable and inclusive growth" includes as one of its 7 flagships the "Digital Agenda for Europe" (DAE)

- Key action 9 from the DAE aims to invest more in R&D by leveraging more private investment through pre-commercial procurement and public-private partnerships, by the use of structural funds for research and innovation.

- The DAE also calls for increased coordination and elimination of Europe's fragmented efforts.

- FET Flagships are a response to the fragmentation and the leveraging of investment in basic research seeded from ICT leading towards innovation in technology and societal impact.



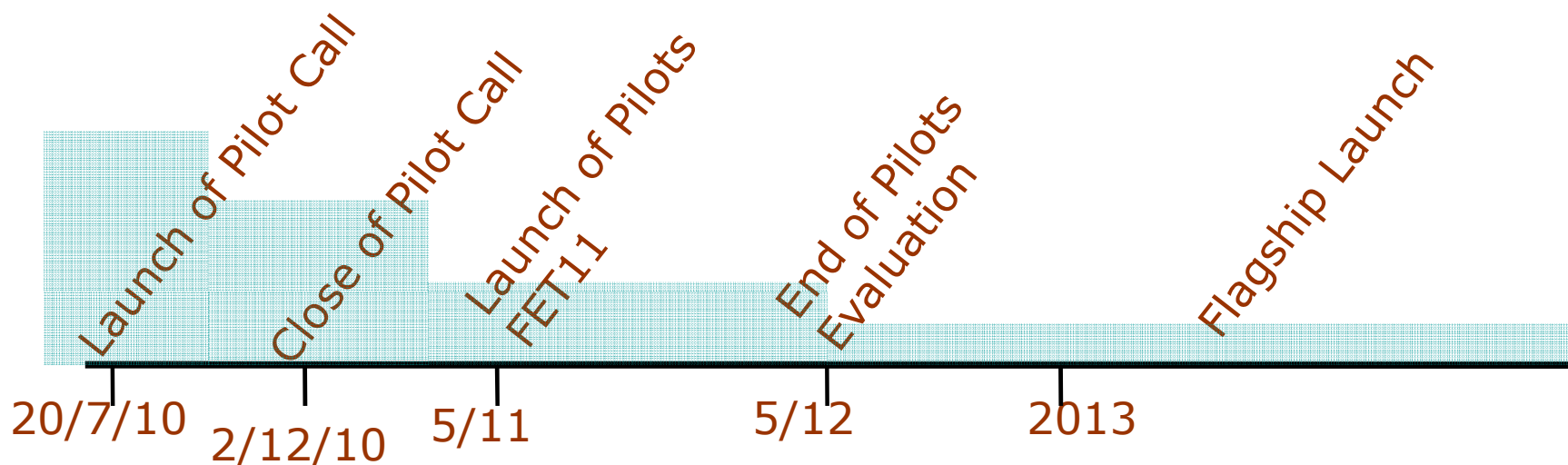


# Requisites for FET Flagship initiatives

- are science-driven
- require multidisciplinary collaboration
- are nucleated from ICT future and emerging technologies and going beyond the ICT programme.
- there should have a unifying goal (visionary and highly ambitious)
- are envisioned to be long term programmes (10 year)
- on a scale beyond FET Proactive Initiatives.
- they can only be realised through a federated effort of key stakeholders



# Key Milestones of FET Flagships preparation



Info-Day Valencia Nov 2010



## Science Forum

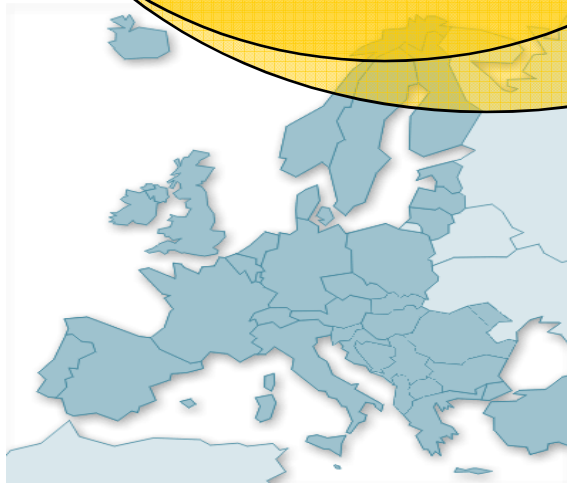
- Discuss and refine Flagship concept
- Discuss and consolidate ideas for Flagship Initiatives
- Build synergies and networks with stakeholders



## MS Group

### Funding Agencies

- Provide input and feedback on Flagship concept
- Map the FET Flagship ideas against the national programs
  - Advise on legal / operational frameworks





# The Call for Preparatory Actions

## Target outcome for “pilots”

“Complete design and description of a consolidated candidate FET Flagship Initiative including assessment of feasibility in scientific, technical and financial terms”

- a well-defined goal thoroughly justified in terms of scientific advance and impact
  - an implementation plan, with an integrative research agenda to enable the launch of a FET Flagship by 2013.
  - the identification of financial resources,
  - Capacity and clear evidence of commitment from key stakeholders
  - adequate level of integration and identity of the supporting community,
  - an operational framework, with an indication of the degree of maturity of the integration of topics and resources with time.
- The objective is to support in the order of 5-6 projects, with a maximum duration of 12 months

10M€





# Key characteristics for FET Flagship initiatives

(to be considered by preparatory actions)

- **Mission:**
  - the unifying goal should be a clearly formulated and broadly accepted long term vision involving major challenges in science and technology
  - requiring a large federated effort
  - justified via comparison with existing activities and state of the art
- **Impact:**
  - substantial progress and major innovation in science and technology
  - on competitiveness of European industry,
  - society, governance and sustainability
  - considering potential ethical and legal implications
- **Integration:**
  - an operational framework describing how relevant disciplines, stakeholders and resources will be brought together
  - how they can be efficiently coordinated under strong scientific leadership
  - along a cohesive roadmap with reasonable milestones that mark valuable interim results



Info-Day Valencia Nov 2010 20



# FET Proactive – WP 2011-2012

transformative and foundational research

Call FET-F 9.5 FET Flagship Initiative Preparatory Actions (CSA)

10M€

Call 7

9.12 c. Identifying new FET topics (CSA)

0,5M€

9.12 d. Organsing conferences (CSA)

9.12 e. ERA-NET follow-up (CSA)

2,5M€

Call 8

9.12 a. Emerging research communities (CSA)

3M€

9.12 b. INCO

Call 9

9.12 c and d, not e

2.5M€





9.12 Coordinating Communities, Identifying new research topics for FET  
Proactive initiatives and Fostering Networking of National and Regional  
Research Programmes

## 9.12 Coordinating Communities...

### (a) Actions supporting coordination and cooperation

- Supporting targeted research communities
  - Organise events
  - Increase visibility and collective impact of scientific community, industry & public
  - Assessing impact
  - Consolidation of research agendas
  - Foster coordination of national, regional and international programmes and activities
  - Encouraging establishment of new educational curricula
- Call 8+9

Research communities can be linked to existing proactives (based around running projects), or communities that are new to FET.

## 9.12 Coordinating Communities...

### (b) Actions supporting and promoting cooperation with non-EU research teams

- Balanced participation of EU and of target countries
- Stimulate global collaborations with best teams worldwide
- Can be “twinning project”
- Complementing continuous call for INCO-top up, and specific CAs in DYM-CS and NBIS
- Call 8+9

Research communities can be linked to existing proactives (based around running projects), or communities that are new to FET.



## 9.12 Coordinating Communities...

### (c) Short duration actions to organise consultations of multi-disciplinary communities

- Formulating new FET topics
- Focus on new emerging research areas
- Identify new research avenue and associated fundamental challenge
- Analyse expected impact on science, technology and society
- Call 7+8+9

### (d) Actions to organise conferences and workshops

- Fostering dialogue between science, policy and society
- Focus on
  - role of interdisciplinary ICT related long term research
  - Increasing Europe's creativity and innovation base
  - Bridging diverse European research communities and disciplines

## 9.12 Coordinating Communities...

### (e) ERANET actions

- Fostering networking of future and emerging research activities conducted at national or regional level
- Facilitating mutual opening of national and regional research programmes
- Should involve national and/or regional programme owners
- Call 7



CHISTERA is an ERANET project started by national funding agencies from 9 member states – call for proposals has just been launched.

# FET Open and FET proactive and...

## FET-Open

Light 2-step scheme  
Topic-agnostic  
Exploratory  
Deadline-free

FET-proactive  
Targeted  
Critical mass  
Consolidating  
Fixed calls

## FET Flagships Large scale

Defragmentation of resources  
Research-driven innovation engines



# Future and Emerging Technologies

## FET-Open in WP 2011-2012



“Incubator for radically new research ideas  
and future research and innovation potential”



QuickTime™ and a  
Apple ProRes 422 (HQ) decompressor  
are needed to see this picture.



# Two questions on funding paradigm-breaking research

1. What should we fund?

ideas that will make a real  
difference for our future?

2. Who should we fund?

future actors that will make this  
difference come true in the long  
run?

# Two questions, one answer

Two questions on funding  
paradigm-breaking research

1. What should we fund?
2. Who should we fund?



## We don't know...

... since we aim at the  
unexpected



# FET-Open vision

Unexpected ideas with long-term visionary impact ...

- ... can come from anywhere, from anybody and at anytime;
- ... are hard to find;
- ... are fragile and easy to shoot down;
- ... are hard to do and take time to incubate;
- ... require an open and trans-disciplinary research atmosphere.

They require a specific approach:  
the FET-Open scheme

# FET-Open: a unique scheme

## Continuously open call

a fast and light scheme fitted to stimulate and capture new opportunities and developments in science and technology as they emerge

The FET-Open 'scheme' is open to:

- any new idea
  - bottom-up, no predefined themes and orientations
- at anytime
  - Continuously open call
- from anyone
  - anonymous evaluation of “short” proposals
- in a light and friendly way
  - two-step submission: Start with a ‘short’ 5 page proposal

# FET-Open scheme (STREPs – except objective 9.4)

Anytime

## Short proposal

- 5 pages maximum
- anonymous

Fixed 'cut-off'

## Full proposal

- ~30 pages
- Not anonymous

Selection

**FET evaluation**  
Criteria – 'short' STREP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>Clarity of targeted breakthrough and its relevance towards a long-term vision</li> <li>Novelty and foundational character</li> <li>Plausibility of the S/T approach</li> </ul>	(not applicable to short STREP)	(not applicable to short STREP)
Threshold: 4.0/5		

FET-Open 1a: WP2011-2012

**FET evaluation**  
Selection and award criteria – 'full' STREP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>Clarity of targeted breakthrough and its relevance towards a long-term vision</li> <li>Novelty and foundational character</li> <li>Specific contribution to progress in science and technology</li> <li>Quality and effectiveness of the S/T methodology</li> </ul>	<ul style="list-style-type: none"> <li>Quality of navigation and management</li> <li>Quality and relevant experience of the individual participants</li> <li>Quality of the consortium as a whole (including complementarity, balance)</li> <li>Appropriateness, and justification of the resources to be committed (person-months, equipment, budget)</li> </ul>	<ul style="list-style-type: none"> <li>Transformational impact of the results on science, technology and/or society</li> <li>Impacts towards the targeted objectives in the work programme</li> <li>A appropriateness of measures envisaged for the dissemination and/or use of project results</li> </ul>
Threshold: 4.0/5 Weight: 50%	Threshold: 3/3 Weight: 20%	Threshold: 3/3 Weight: 30%

FET-Open 1a: WP2011-2012

Project



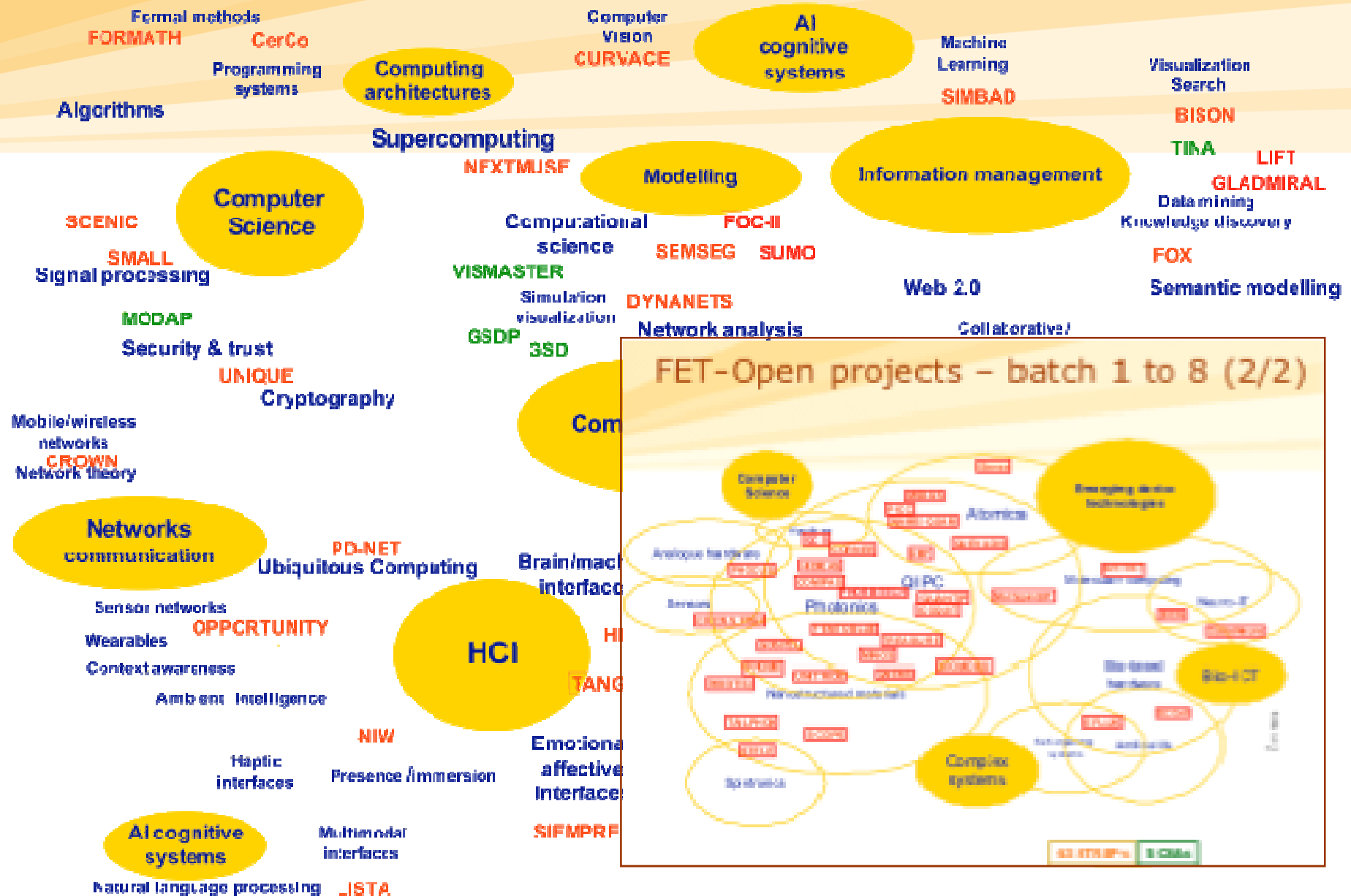
# FET-Open: a unique scheme

## Project characteristics

- **Foundational**  
New foundations for future ICT by exploring new unconventional ideas and scientific paradigms
- **Transformative**  
Driven by ideas that challenge and can radically change our understanding of scientific concepts behind existing ITs
- **High risk, high pay-off**  
Balances risks against high potential returns and the chance of revolutionary breakthroughs
- **Purpose-driven**  
Impact on future industrial ICT research agendas
- **Multidisciplinary**  
Synergies with and cross-fertilization between disciplines
- **Collaborative**  
Best teams in Europe and increasingly worldwide



# FET-Open projects – batch 1 to 8 (1/2)



# FET Open so far

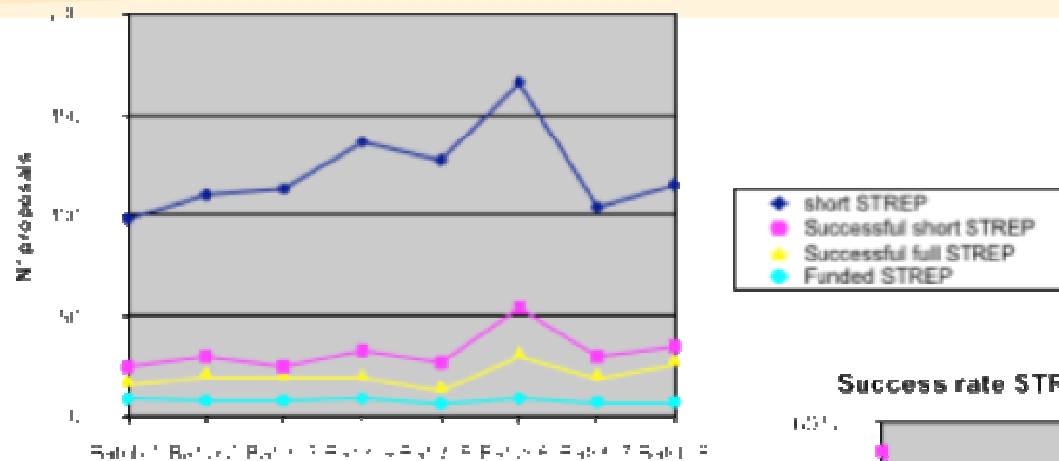
## Workprogrammes 07/08 & 09/10

Batch	1	2	3	4	5	6	7	8	Total
Short STREP	98	110	111	136	127	167	104	115	969
Short successful	25	30	25	33	27	54	30	35	259
full STREP /CA	23 /6	29 /9	25 /2	31 /3	26 /6	53 /1	30 /0	35 /3	252 /30
Full successful STREP/CA	16 /2	20 /3	19 /0	19 /0	13 /3	30 /0	19 /0	26 /1	162 /9
Funded STREP/CA	9 /1	8 /1	8 /0	9 /0	6 /2	9 /0	7 /0	7 /1	63 /5

# FET Open so far

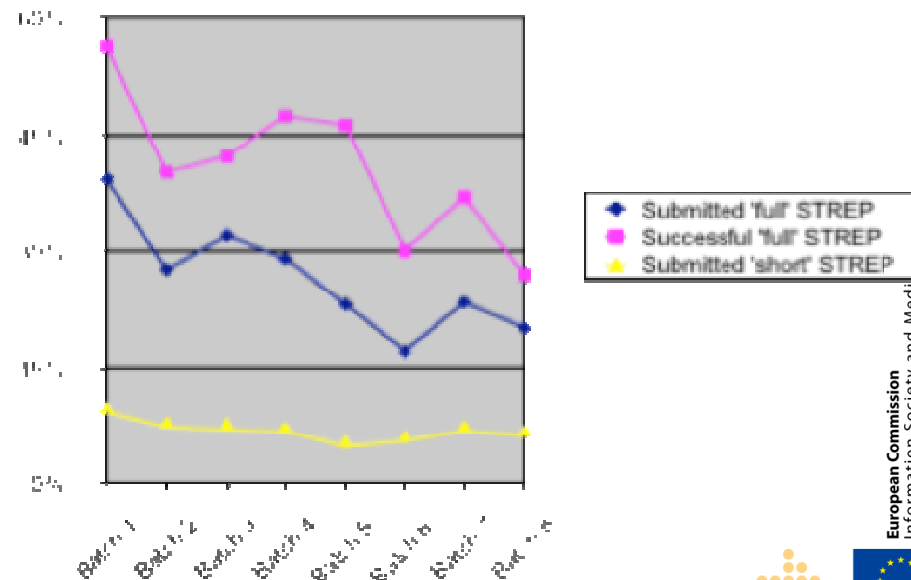
## Workprogrammes 07/08 & 09/10

FET Open overview STREP proposals



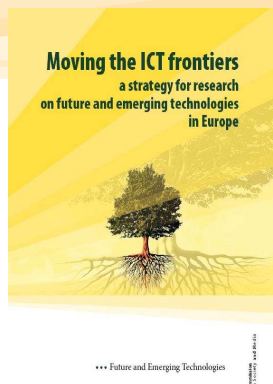
A 'light and fast', but highly competitive scheme!

Success rate STREP proposals funded



# FET-Open – WP2011-2012

## Policy background



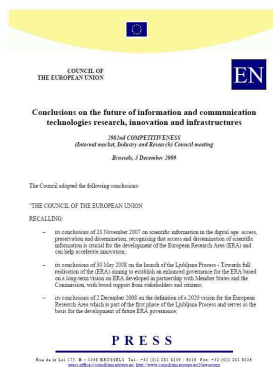
2009 / 04 COM (2009) 184 'Moving the ICT frontiers'

Strengthening FET through more resources and new initiatives

- FET Open and FET proactive strengthened
- FET Flagship initiatives
- High-Tech Research Intensive SMEs
- Young Researchers
- International cooperation

2009 / 10 ISTAG report

on „Improving the reach, effectiveness and impact of FET"

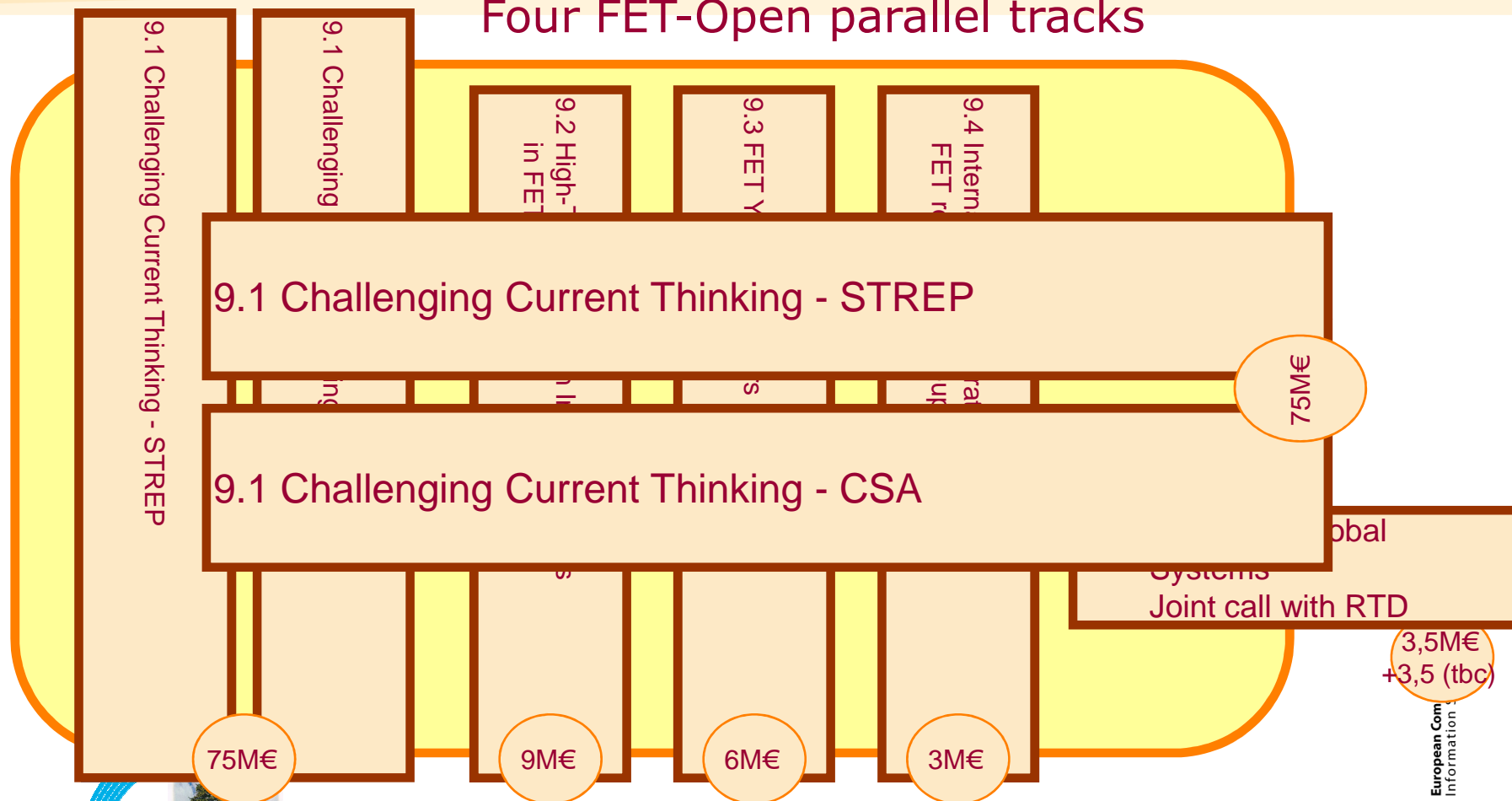


2009 / 12 endorsed at the COMP Council

# FET Open – WP 2011-2012

Incubator for radically new research ideas  
and future research and innovation potential

## Four FET-Open parallel tracks



# FET-Open

## ICT-2011.9.1: Challenging current thinking - STREPs

### What are we looking for ?

- Exploration of **new** and alternative ideas that, because of their **risky** or **non-conventional** nature, would not be supported elsewhere in the ICT WP. It seeks:
  - **foundational breakthroughs**  
as crucial steps towards radically new forms and uses of information and information technologies within a clear long-term vision that is far beyond the state of the art
  - **ambitious proof-of-concept**  
and its supporting scientific foundation, where novelty comes from new, high-risk ideas rather than from the refinement of current ICT approaches
  - **new inter-disciplinary collaborations**  
possibly with prominent and internationally recognised non-EU research teams where these can provide a significant added value
- 75 M€ for STREP (& CSA)
- 2-step submission and evaluation scheme
- proposals continuously receivable (at least) until 11 Sept 2012

# FET-Open

## ICT-2011.9.1: Challenging current thinking - CSAs

### What are we looking for ?

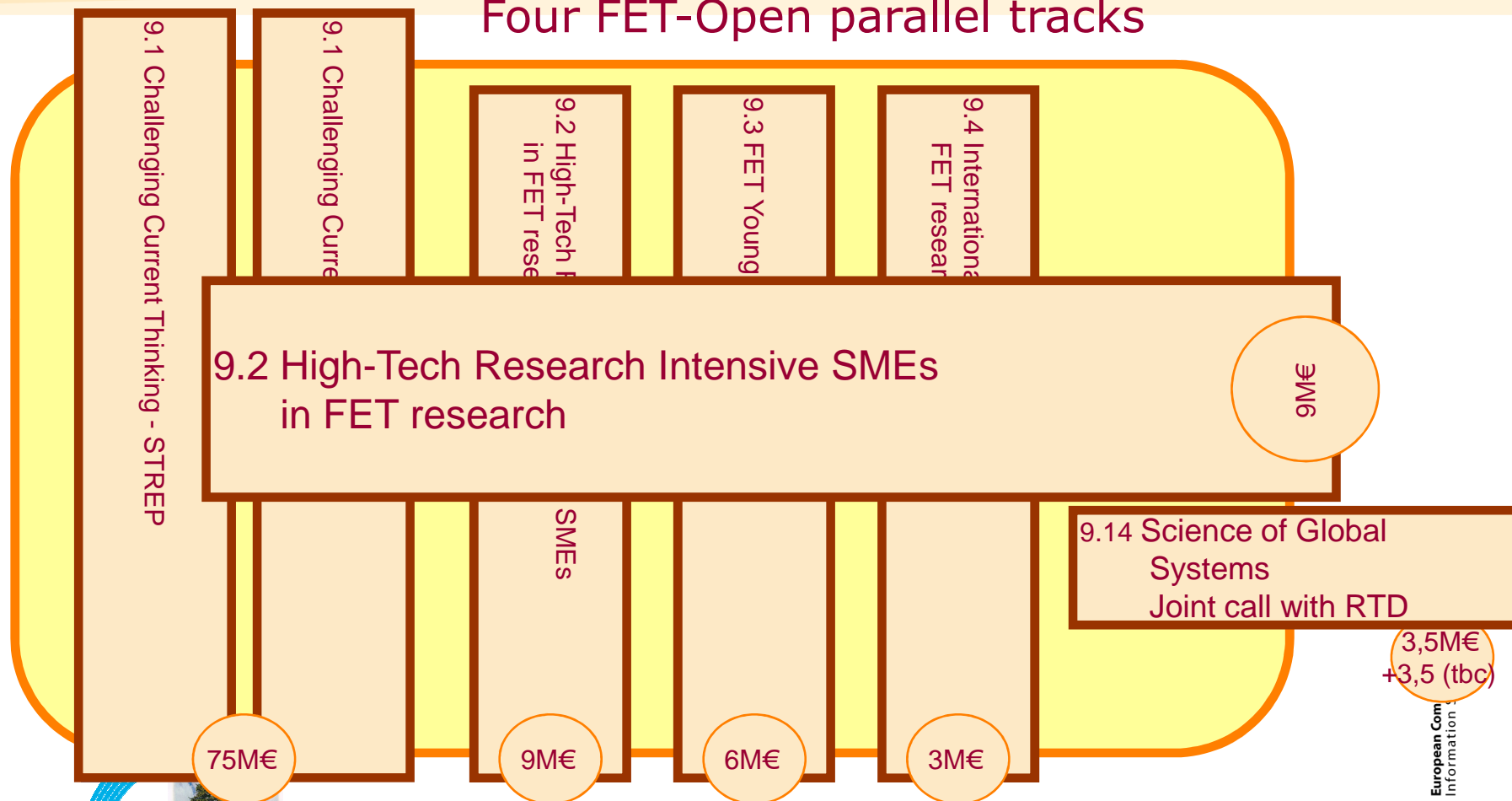
- CSAs for creating the best conditions within which FET research can flourish and achieve transformative impacts that it aspires to. These activities may be, for example:
  - actions, including networking and dissemination activities, aiming at the **emergence of new research communities and collaborations** involving a broad diversity of disciplines and actors into FET research
  - actions towards the increased involvement **high-tech research intensive SMEs**
  - actions that stimulate excellence and future leadership of **pioneering teams of Young Researchers**
  - actions aiming to strengthen the **international dimension of FET**
- Up to 7.5 M€ for CSA
- 1-step submission and evaluation scheme
- proposals continuously receivable until 12 March 2013



# FET Open – WP 2011-2012

Incubator for radically new research ideas  
and future research and innovation potential

## Four FET-Open parallel tracks



# High-Tech Research Intensive SMEs in FET research: Rationale

- Top-level research can take place outside of universities and big corporate laboratories.
- It can take place within SMEs.
- SMEs provide a fast moving future innovation potential and many more recognised advantages for the WP.

And yet:

- evidence shows that they have a hard time getting their proposals funded in FET-Open and that they do not take the lead.

Short proposal SME participation	486 in 969 proposals
Full proposal SME participation	63 in 252 proposals
Funded projects	10 (and only 1 coordinator) in 63 projects

(rough statistics from 8 batches)



# FET-Open

## ICT-2011.9.2: High-tech research-intensive SMEs in FET research

### What are we looking for ?

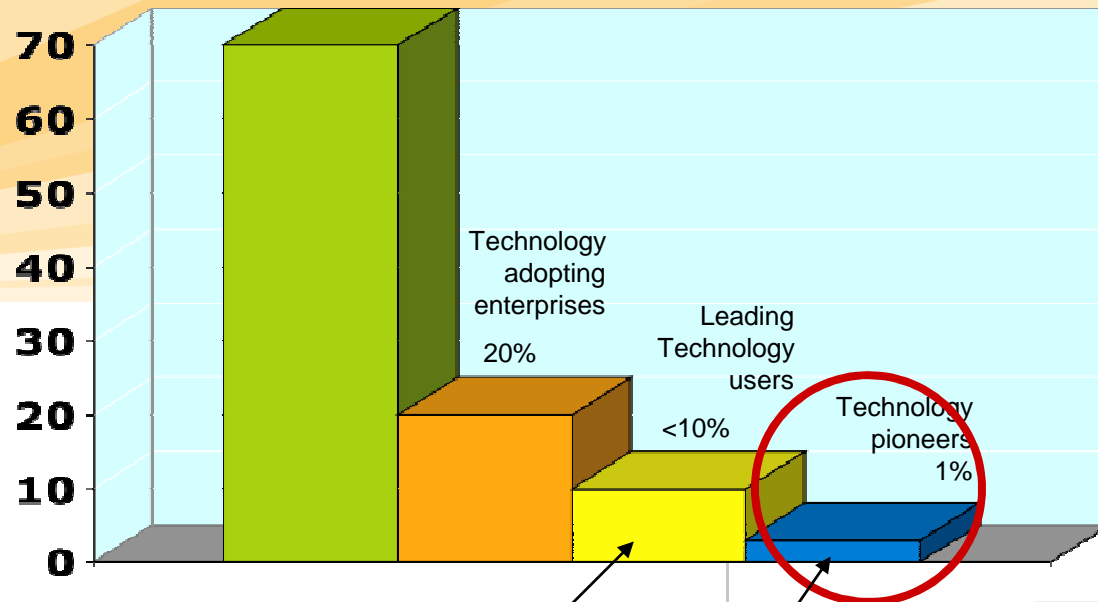
- High-tech research intensive SMEs ready to take a driving role in collaborative FET projects, by setting and co-executing the ambitious FET research agenda centred on their needs
- link novel science with marketable ideas that can lead to new visionary business opportunities and create future markets;
- generate a new scientific and technological asset for SMEs to establish themselves firmly as future innovation players
- increased visibility, exposure and impact of FET projects by fostering the rapid maturing of breakthrough technologies
- Funding: 9M€
- Target: 'Small' STREP proposals, grant in the order of 1 M€\*
- Eligibility: Consortium must contain a High Tech Research Intensive SME
- Submission: 2-step submission/evaluation process; short proposals receivable continuously from 4 August 2010 until 11 September 2012



(\*) the largest share of the resources is to be allocated to the participating SMEs



# FET-Open Target SMEs



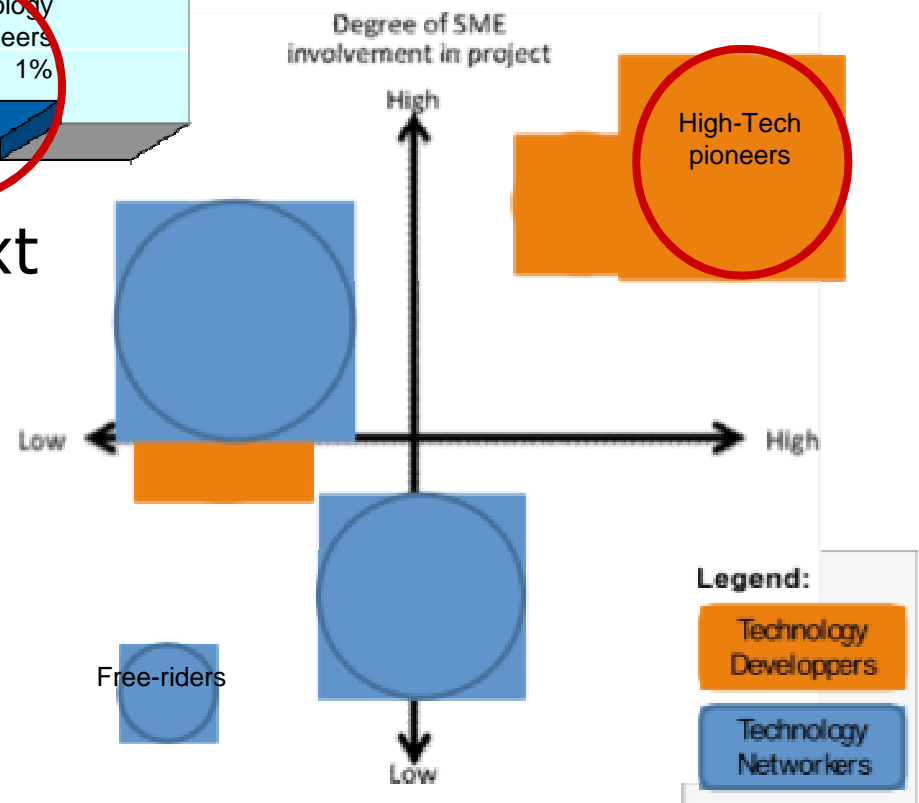
Source: EURAB's report on "SMEs and ERA"

Developing or combining existing technologies on an innovative level

High Level research activities

Text

Degree of alignment between project's and SME's strategic objectives



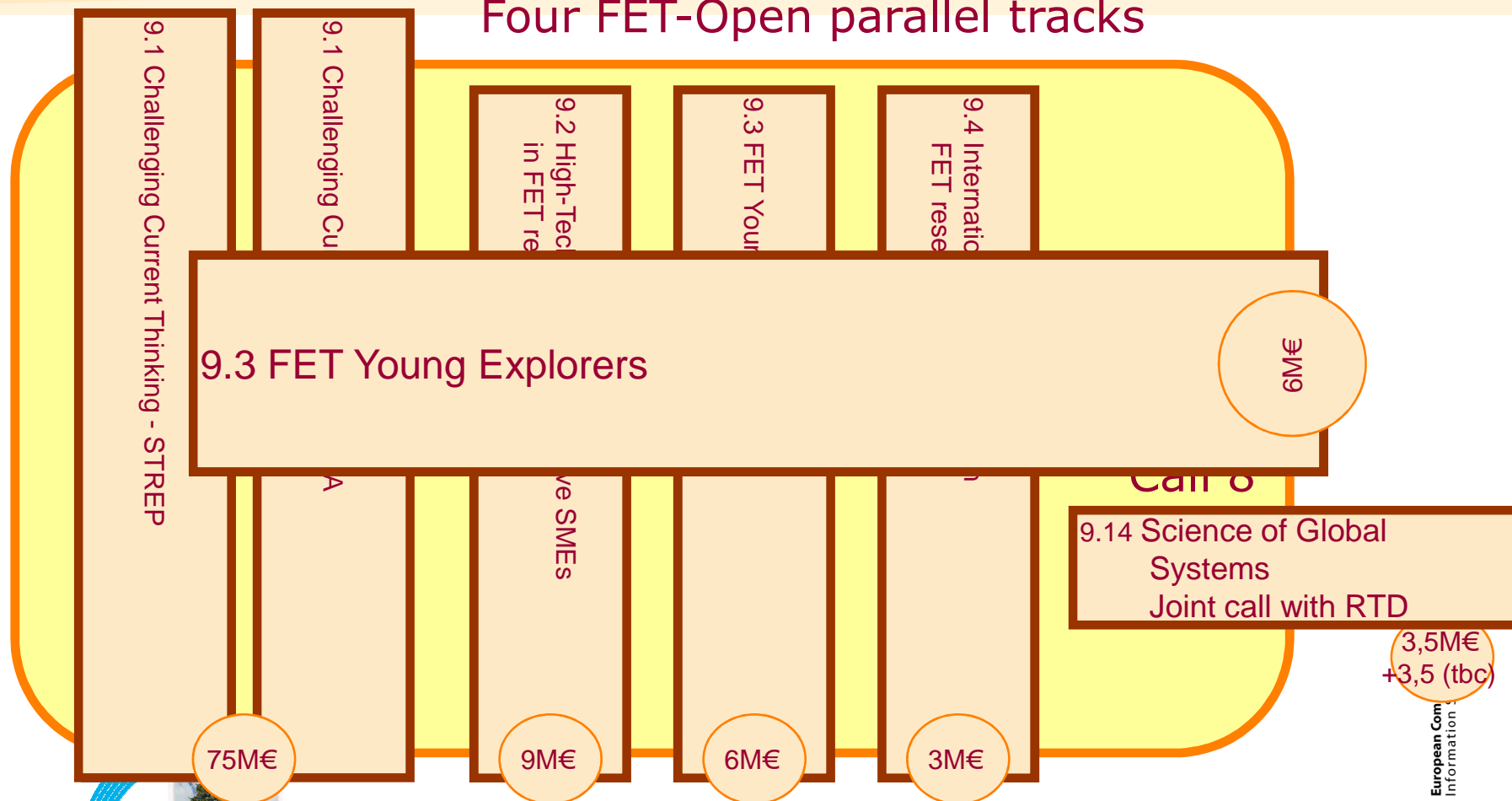
# FET-Open SME track: what we will not support

- This objective does not seek short term commercial outcomes. It will therefore not support, for example, the incremental improvement of state-of-the-art technology, mainstream research aimed at short term product or service development, the incremental improvement of existing lines of business activity, research aimed to catch-up with the competition, foraging or market studies, or the mere development of new business models or business plans.

# FET Open – WP 2011-2012

Incubator for radically new research ideas  
and future research and innovation potential

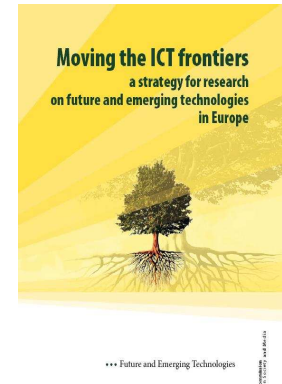
## Four FET-Open parallel tracks



# FET-Open Young Explorers: rationale

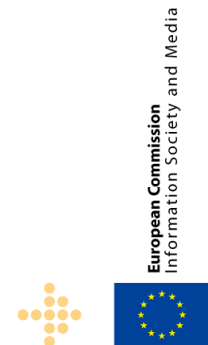
- "Europe must invest more in excellence to attract the world's best researchers and empower talented young researchers to become research leaders. Multidisciplinary research careers and curricula should be given stronger support"

(Commission Communication on FET, 'Moving the ICT frontiers', 2009)



- "FET in its current form is geared towards funding established, senior researchers, which is not where the new ideas are."

(Kasper Stoy, @ the YR workshop in Dec 2010)



## FET-Open ICT-2011.9.3: FET Young Explorers

### What are we looking for ?

- Captures the creative potential of young researchers in FET type of research
- Fosters their leadership and participation: put them in the driver seat of FET-like collaborative research projects
- Empowers the next generation of European independent research leaders
- Promotes early independence of high-potential young researchers
- Funding: 6M€
- Target: 'Small' STREP proposals; grant in the order of 1 M€
- Eligibility: Project and all Workpackages must be led by Young Researchers\*
- Submission: 2-step submission/evaluation process; short proposals receivable continuously from 4 August 2010 until 11 September 2012



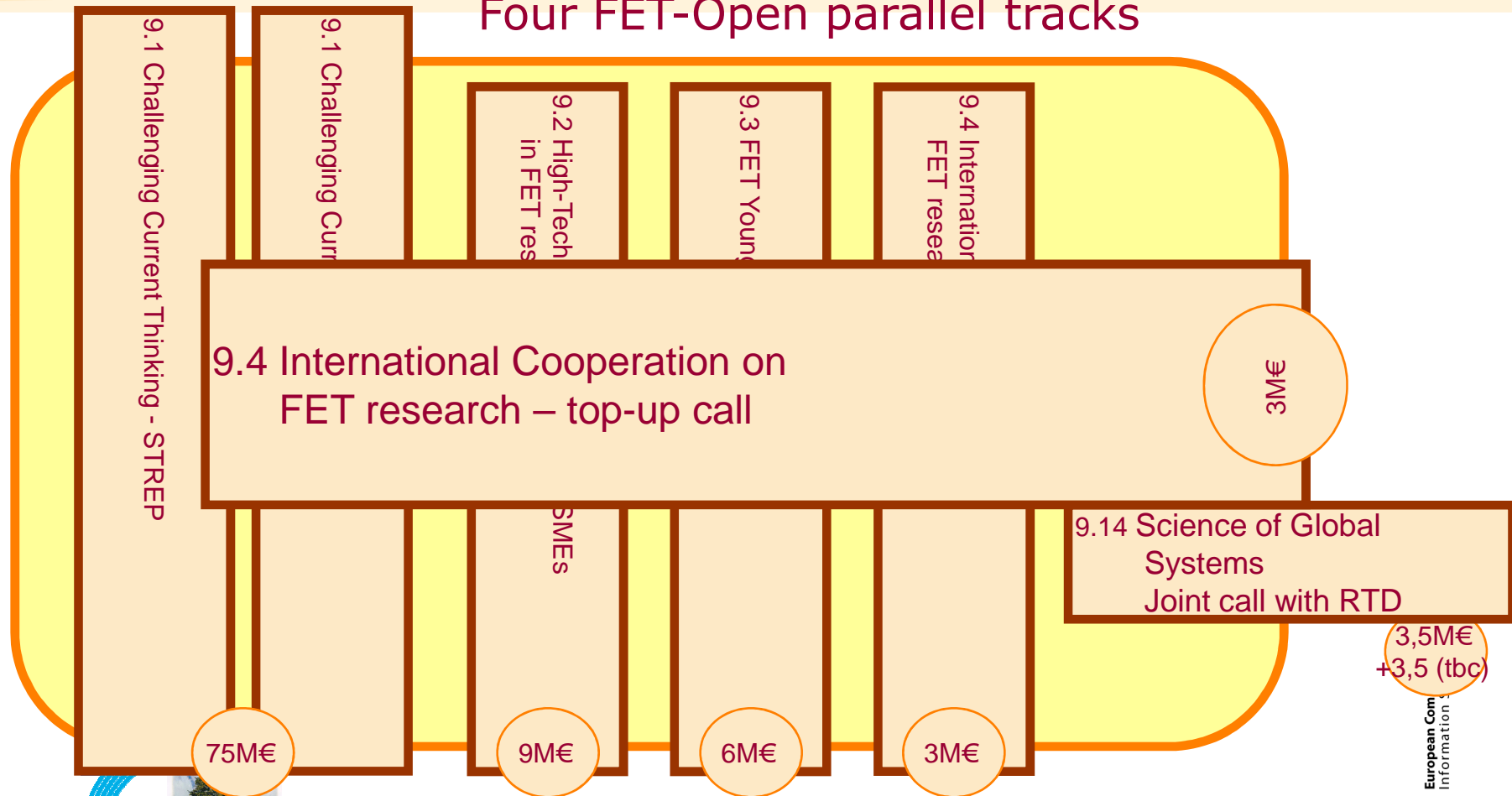
(\*) Young researcher is defined as up to PhD + 6 years (or equivalent) at proposal submission date



# FET Open – WP 2011-2012

Incubator for radically new research ideas  
and future research and innovation potential

## Four FET-Open parallel tracks





# International cooperation on FET research

Foundational research can necessitate global collaboration

- You are preparing a new project proposal?
  - Non-EU research partners can participate
  - If financial support requested, it needs proper justification
- You are part of an on-going FET project?
  - Special 'Top-up' call for adding new non-EU research partners
- You want to boost the international dimension of your activities?
  - Coordination and Support Actions in FET-Open
  - Also in the more topical oriented FET-Proactive calls

“Non-EU”= Not located in EU Member States or in Associated Countries

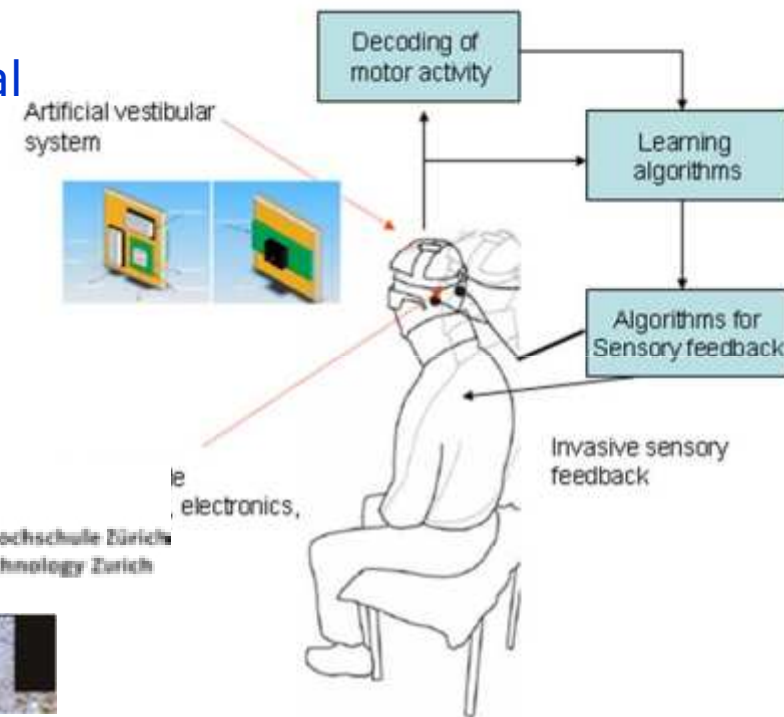




# Example: CLONS



- Innovative closed-loop sensory neural prosthesis
- The Massachusetts Eye and Ear Infirmary – Harvard University (US) bring its great experience in the field related to vestibular neural prostheses.





“Top-up call”

## ICT-2011.9.4: : International cooperation on FET research

What are we looking for ?

- Extension of ongoing FET projects with complementary research activities, in which collaboration with new non-EU research partners of excellent global standing brings significant added value
- New research activities :
  - Expand the research challenge and global reach of FET research
  - Increase the impact of the initial project
  - Foster cooperation among top EU and non-EU research teams





“Top-up call”

## ICT-2011.9.4: : International cooperation on FET research

### Who ?

- Restricted to on-going FET projects
- Running IP & STREPs from FET-Open and FET Proactive portfolio
- On going = ending at least 18 months after the submission date of the proposal.

### Budget ?

Total Indicative budget for WP11-12: 3M€

- Top-up funding for partners from the ongoing FET project and for the new non-EU research participants to cover the coordination and joint research activities





“Top-up call”

## ICT-2011.9.4: : International cooperation on FET research

### How ?

- 1-step submission of an extension proposal (no short)
- 3 cut-off dates in WP2011-2012 :
  - 17/05/2011 -> Extension to start end 2011
  - 25/10/2011 -> Extension to start early 2012
  - 10/04/2012 -> Extension to start mid/end 2012
- Per batch
- ~1M€ in total
- ~4 to 6 projects
- Continuously open call
- Expected to be extended up to 12 March 2013





# ICT-2011.9.4: : International cooperation on FET research

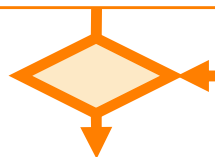
“Top-up call”

How ?

Anytime

‘Top-up’ proposal

- ~30 pages
- Not anonymous



Negotiation

FET evaluation  
Selection and award criteria – ‘full’ STREP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"><li>• Clarity of targeted breakthrough and its relevance towards a long-term vision</li><li>• Novelty and foundational character</li><li>• Specific contribution to progress in science and technology</li><li>• Quality and effectiveness of the S/T methodology</li></ul>	<ul style="list-style-type: none"><li>• Quality of workplan and management</li><li>• Quality and relevant experience of the individual participants</li><li>• Quality of the consortium as a whole (including complementarity, balance)</li><li>• Appropriate allocation and justification of the resources to be committed (personnel, equipment, budget)</li></ul>	<ul style="list-style-type: none"><li>• Transformational impact of the results on science, technology and/or society</li><li>• Impact towards the targeted objective in the work programme</li><li>• Appropriateness of measures envisaged for the dissemination and/or use of project results</li></ul>
Threshold: 4.0/5 Weight: 50%	Threshold: 3/5 Weight: 20%	Threshold: 3.5/5 Weight: 30%

FET-Open is WP2011-2012

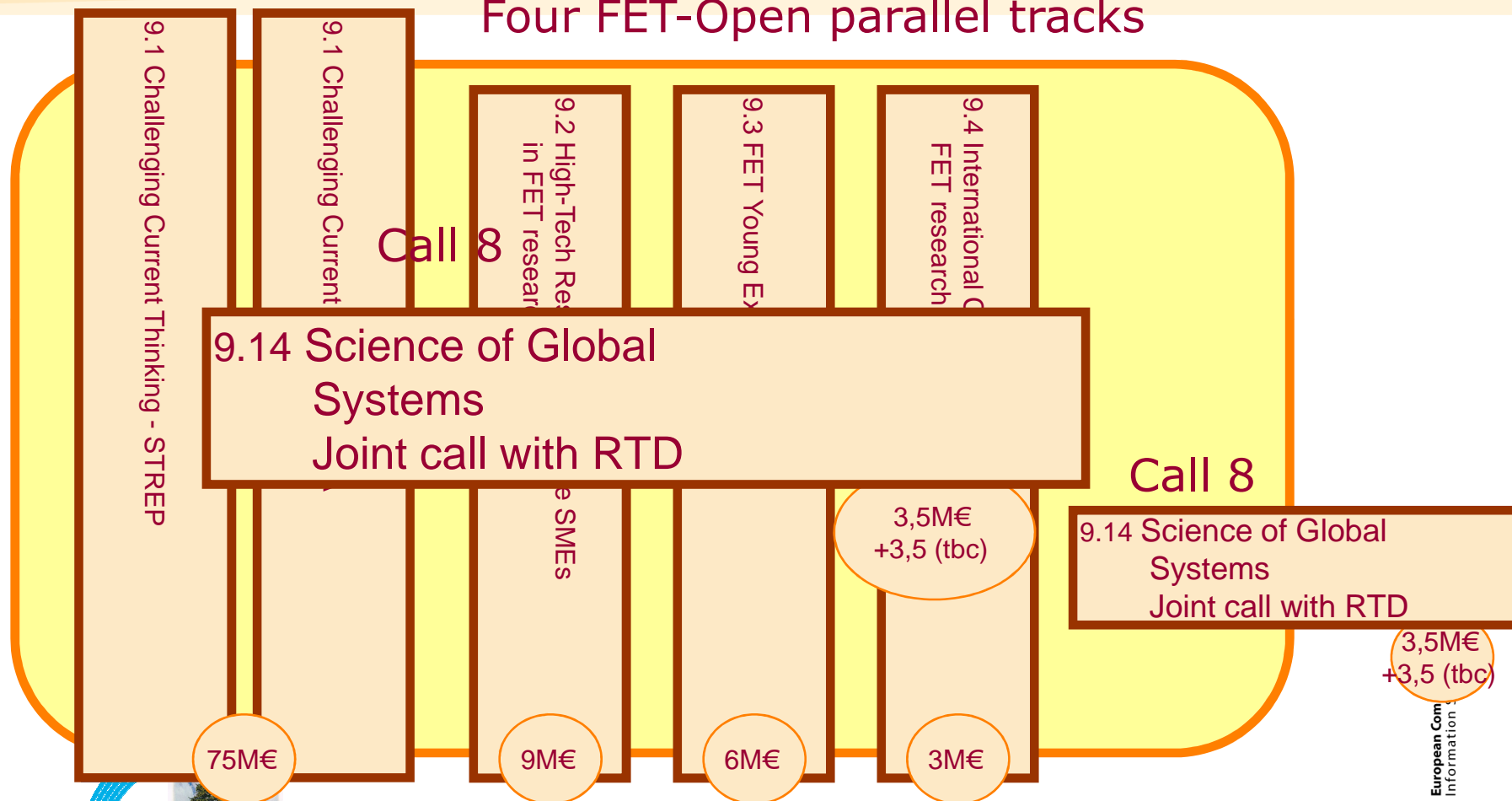
Project



# FET Open – WP 2011-2012

Incubator for radically new research ideas  
and future research and innovation potential

## Four FET-Open parallel tracks



## “Joint call ICT- Environment” ICT-2011.9.14 'Science of Global Systems'

### What is the objective ?

- Better understand the interactions between ecological and socio-economic systems and improve their ability to respond to global environmental changes
- Research on global systems dynamics and models
- IT to better link science, policy and society
- Local to global multi-national decision making
  - Improve use of data and knowledge for generating policy options
  - Better modelling techniques and user-model interaction.
  - Understanding of distributed multilevel policy decision processes.
  - Formal languages, constructive type theory and domain specific languages to make policy interfaces of models more adaptable to changing contexts.



This call is under the condition that the Commission decision adopting the 2012 work programme presents the objective also under the Environment theme.



## “Joint call ICT- Environment” ICT-2011.9.14 'Science of Global Systems'

### Expected impact

- Better links between modellers and stakeholders facilitated by new policy-relevant concepts in modelling of global systems;
- Overcome fragmentation in research in various policy-relevant models resulting in a better uptake of modelling results for global coordination of policies;
- Policy uptake in targeted areas: socio-ecological system and climate change impacts, innovation as a global system, dynamics of the financial system and new models for economy.



This call is under the condition that the Commission decision adopting the 2012 work programme presents the objective also under the Environment theme.



# “Joint call ICT- Environment” ICT-2011.9.14 'Science of Global Systems'

## How ?

- Fixed deadline call
- Call: FP7-ICT-2011-8: Deadline 17 January 2012 5PM
- Funding scheme: STREP
- Indicative budget distribution:
- EUR 3.5 million (ICT contribution)
- A similar contribution is expected from the Environment theme in WP2012.

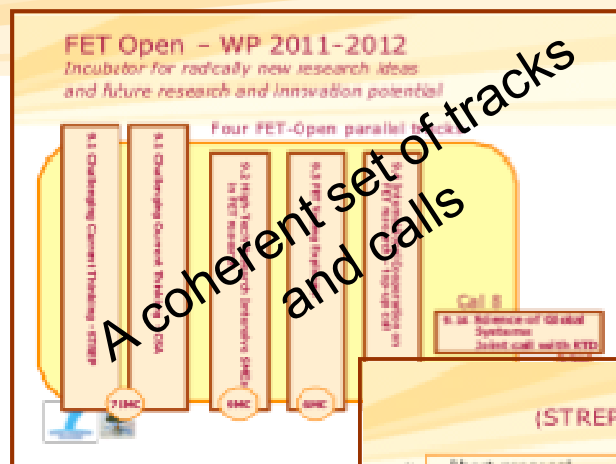


This call is under the condition that the Commission decision adopting the 2012 work programme presents the objective also under the Environment theme.

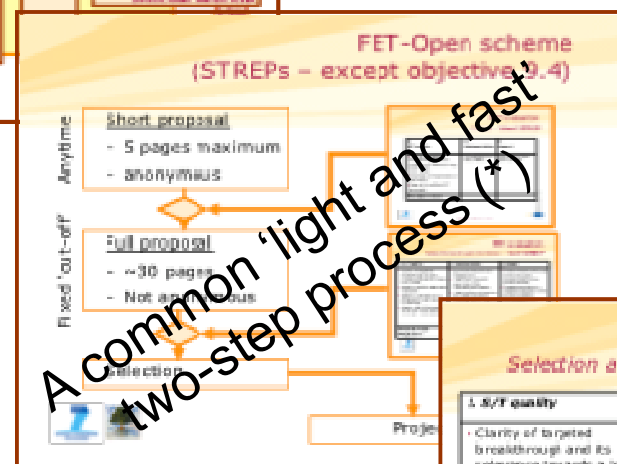


# FET-Open in WP2011-2012

## Conclusion

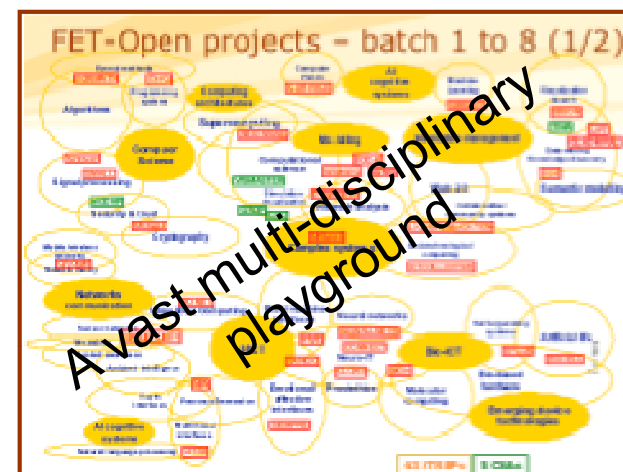


A coherent set of tracks and calls



A common 'light and fast' two-step process (\*)

(\*) except objectives 9.4 and 9.14



A vast multi-disciplinary playground

**FET evaluation**  
Selection and award criteria - 'full' STREP & IP

I. S/T quality	II. Implementation	III. Impact
<ul style="list-style-type: none"> <li>Clarity of targeted breakthrough and its relevance towards a long-term mission</li> <li>Novelty and foundational character</li> <li>Specific contribution to progress in science and technology</li> <li>Quality and effectiveness of the S/T methodology</li> </ul>	<ul style="list-style-type: none"> <li>Quality of vision and management</li> <li>Quality and relevant experience of the individual participants</li> <li>Quality of the consortium as a whole (balance)</li> <li>Appropriateness of resources to be committed (person-months, equipment, budget)</li> </ul>	<ul style="list-style-type: none"> <li>Broader societal impact</li> <li>Impacts towards the targeted objective in the work programme</li> <li>Appropriateness of measures envisaged for the dissemination and/or use of project results</li> </ul>
Threshold: 40% Weight: 35%	Threshold: 31% Weight: 30%	Threshold: 35.5% Weight: 35%

Dedicated evaluation criteria

# FET-Open: a preview of things to come?

“I also want to ensure that we retain an open scheme for bottom-up collaborative research proposals.

This scheme will give all sizes of entities access to finance for high-risk, high-return ideas.

The paperwork must be 'simple, light and fast' in order to succeed.

Such a scheme is needed to continue to capitalise on our science and technology knowledge and skills base. It is needed to build a more exploratory and entrepreneurial mindset that boosts the number of alternative ideas, start-ups and high-growth SMEs.”

Neelie Kroes, ICT2010 Opening speech

# FET-Open contacts per objective

Objective 9.1: Challenging current thinking

Pascal Drabik (pascal.drabik@ec.europa.eu)

Objective 9.2: High-Tech Research Intensive SMEs in FET research

Walter Van de Velde (walter.van-de-velde@ec.europa.eu)

Objective 9.3: FET Young Explorers

Prabhat Agarwal (prabhat.agarwal@ec.europa.eu)

Objective 9.4 : International Cooperation on FET research – top-up call

Aymard de Touzalin (aymard.de-touzalin@ec.europa.eu)

Objective 9.14 : Science of Global Systems

Ralph Dum (ralph.dum@ec.europa.eu)

FET-Open Head of Unit:

Ales Fiala (ales.fiala@ec.europa.eu)

FET-Open website

[http://cordis.europa.eu/fp7/ict/fet-open/home\\_en.html](http://cordis.europa.eu/fp7/ict/fet-open/home_en.html)





# A FET-community

Become part of it!

<http://cafeteria.ning.com/>



FET  
can change  
your life!



FET Spirit



More to come...

European Commission  
Information Society and Media



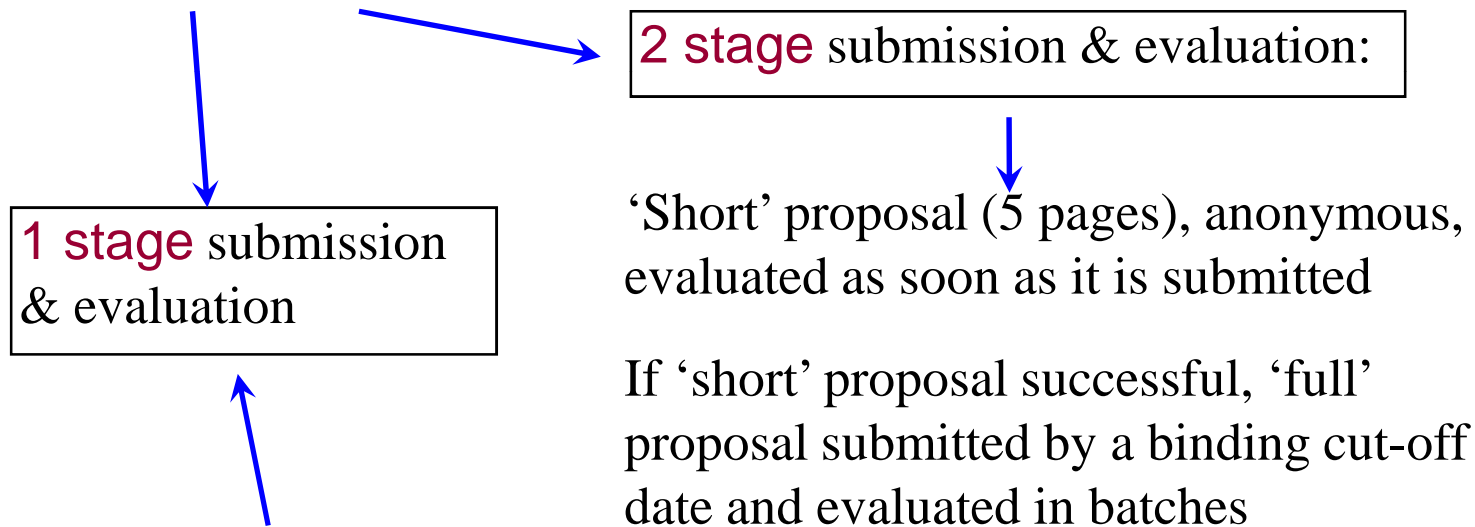
# Annex 1: the FET-Open scheme



# FET-Open

## Scheme implementation and funding instruments

- Continuation of the successful & popular scheme of FP6
- CSA & STREP funding instruments



- Inco top-up call



# FET-Open scheme (STREPs)

Anytime

## Short proposal

- 5 pages maximum
- anonymous

Fixed 'cut-off'

## Full proposal

- ~30 pages
- Not anonymous

Selection

**FET evaluation**  
Criteria - 'short' STREP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>• Clarity of targeted breakthrough and its relevance towards a long-term vision</li> <li>• Novelty and foundational character</li> <li>• Plausibility of the S/T approach</li> </ul>	(not applicable to short STREP)	(not applicable to short STREP)
Threshold: 4.0/5		

FET-Open is WP2011-2012

**FET evaluation**  
Selection and award criteria - 'full' STREP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>• Clarity of targeted breakthrough and its relevance towards a long-term vision</li> <li>• Novelty and foundational character</li> <li>• Specific contribution to progress in science and technology</li> <li>• Quality and effectiveness of the S/T methodology</li> </ul>	<ul style="list-style-type: none"> <li>• Quality of workplan and management</li> <li>• Quality and relevant experience of the individual participants</li> <li>• Quality of the consortium as a whole (including complementarity, balance)</li> <li>• Appropriate allocation and justification of the resources to be committed (person-months, equipments, budget)</li> </ul>	<ul style="list-style-type: none"> <li>• Transformational impact of the results on science, technology and/or society</li> <li>• Impacts towards the targeted objectives in the work programme</li> <li>• Appropriateness of measures envisaged for the dissemination and/or use of project results</li> </ul>
Threshold: 4.0/5 Weight: 50%	Threshold: 3/5 Weight: 20%	Threshold: 3.5/5 Weight: 30%

FET-Open is WP2011-2012

Project

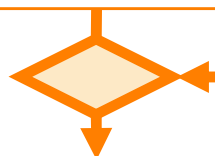
# How to submit to FET-Open?

## Exception: ICT-2011.9.4: International cooperation in FET – top-up to on going IPs and STREPs

Anytime

'Top-up' proposal

- ~30 pages
- Not anonymous



Negotiation

**FET evaluation**  
Selection and award criteria – 'full' STREP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>Clarity of targeted breakthrough and its relevance towards a long-term vision</li> <li>Novelty and foundational character</li> <li>Specific contribution to progress in science and technology</li> <li>Quality and effectiveness of the S/T methodology</li> </ul>	<ul style="list-style-type: none"> <li>Quality of workplan and management</li> <li>Quality and relevant experience of the individual participants</li> <li>Quality of the consortium as a whole (including complementarity, balance)</li> <li>Appropriate allocation and justification of the resources to be committed (personnel, equipment, budget)</li> </ul>	<ul style="list-style-type: none"> <li>Transformational impact of the results on science, technology and/or society</li> <li>Impact towards the targeted objective in the work programme</li> <li>Appropriateness of measures envisaged for the dissemination and/or use of project results</li> </ul>
Threshold: 4.0/5 Weight: 50%	Threshold: 3/5 Weight: 20%	Threshold: 3.5/5 Weight: 30%

FET-Open is WP2011-2012

Project



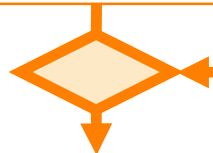
# How to submit to FET-Open ?

## Coordination and Support Action

Anytime

### Full proposal

- ~30 pages
- Not anonymous



Negotiation

**FET eligibility, evaluation, selection and award criteria - CSA**

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>• Clarity of objectives.</li> <li>• Contribution to the generation and/or support of high-risk and high-impact research, for new or emerging areas or horizontally.</li> <li>• Quality and effectiveness of the coordination and/or support activities.</li> </ul>	<ul style="list-style-type: none"> <li>• Quality of workplan and management.</li> <li>• Quality and relevant experience of the individual participants.</li> <li>• Quality of the consortium.</li> <li>• Appropriate management of the resources to be committed (personnel, equipment, budget).</li> </ul>	<ul style="list-style-type: none"> <li>• Transformational impact on the communities and/or practices for high-risk and high-impact research.</li> <li>• Appropriateness of measures for spreading excellence, use of results, and dissemination of knowledge, including engagement with stakeholders.</li> </ul>
Threshold: 3/5 Weight: 40%	Threshold: 3/5 Weight: 30%	Threshold: 3/5 Weight: 40%

FET-Open is WP2011-2012

Project

# Annex 2: FET-specific Evaluation Criteria



# FET evaluation

## Criteria – ‘short’ STREP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>• Clarity of targeted breakthrough and its relevance towards a long-term vision</li> <li>• Novelty and foundational character</li> <li>• Plausibility of the S/T approach</li> </ul>	(not applicable to short STREP)	(not applicable to short STREP)
Threshold: 4/5		

# FET evaluation

## Selection and award criteria – ‘full’ STREP & IP

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>• Clarity of targeted breakthrough and its relevance towards a long-term vision</li> <li>• Novelty and foundational character</li> <li>• Specific contribution to progress in science and technology</li> <li>• Quality and effectiveness of the S/T methodology</li> </ul>	<ul style="list-style-type: none"> <li>• Quality of workplan and management.</li> <li>• Quality and relevant experience of the individual participants</li> <li>• Quality of the consortium as a whole (including complementarity, balance)</li> <li>• Appropriate allocation and justification of the resources to be committed (person-months, equipment, budget)</li> </ul>	<ul style="list-style-type: none"> <li>• Transformational impact of the results on science, technology and/or society</li> <li>• Impacts towards the targeted objective in the work programme</li> <li>• Appropriateness of measures envisaged for the dissemination and/or use of project results.</li> </ul>
<p>Threshold: 4/5 Weight: 50%</p>	<p>Threshold: 3/5 Weight: 20%</p>	<p>Threshold: 3.5/5 Weight: 30%</p>

# FET eligibility, evaluation, selection and award criteria - CSA

1. S/T quality	2. Implementation	3. Impact
<ul style="list-style-type: none"> <li>• Clarity of objectives.</li> <li>• Contribution to the co-ordination and/or support of high-risk and high-impact research, for new or emerging areas or horizontally</li> <li>• Quality and effectiveness of the coordination and/or support activities</li> </ul>	<ul style="list-style-type: none"> <li>• Quality of workplan and management.</li> <li>• Quality and relevant experience of the individual participants</li> <li>• Quality of the consortium</li> <li>• Appropriate management of the resources to be committed (person-months equipment, budget)</li> </ul>	<ul style="list-style-type: none"> <li>• Transformational impact on the communities and/or practices for high-risk and high-impact research</li> <li>• Appropriateness of measures for spreading excellence, use of results, and dissemination of knowledge, including engagement with stakeholders</li> </ul>
<p>Threshold: 3/5 Weight: 40%</p>	<p>Threshold: 3/5 Weight: 20%</p>	<p>Threshold: 3/5 Weight: 40%</p>