

Draft 21/03/2007

Comparison FTP/SRA – FP7 1st calls. GAP-analysis

Introduction

As one part of monitoring the implementation phase of the Strategic Research Agenda (SRA) of the Forest-Based Sector Technology Platform (FTP) an analysis between the first call of Framework Programme 7 (FP7) from the European Union and the SRA has been carried out. The following document is the result of this GAP-analysis.

The National Support Groups (NSGs), Scientific Council (SC) and the Value Chains/Task Forces are now invited by the FTP management to give their comments and views to this document. They are also invited to prioritise a list (excel sheet in annex) that will serve as a basis for interactions between FTP management and European Commission services and as official input to the coming work programmes and calls within FP7. The priority list can also be a valuable tool for the NSGs in their contacts with authorities for example members of the programme committees. You will find this list in a separate excel sheet.

The process is also an important step to follow up the bottom up process, which was used in the creation of our SRA and also serve as a common information base.

All National Support Groups (NSGs), the members of the Scientific Council and the extended project management are kindly asked to send their input until latest **Friday 13 April 2007** by e-mail to the project secretary, Mr Andreas Kleinschmit v. L. by e-mail: andreas.kleinschmit@cei-bois.org

How to analyse the GAP between FTP SRA and FP7 first call topics?

The comparison has been made for each Research Area (RA) in the SRA. The content of all 26 RAs has been compared with the call text under the topics of following workprogrammes: Food, Agriculture, Fisheries and Biotechnology (KBBE); Nanoscience, Materials and Production (NMP), Energy, Environment, Socio-economic sciences and Humanities (SSH) and with Information Communication Technologies (ICT).

It has to be pointed out that the results are an estimation/judgement!

The analysis is carried with three defined factors:

A: Research Area dedicated opening(s)

means that a Call-topic address solely to a Research Area in FTP's SRA. The research needs expressed in part of or the whole Research Area is covered under such an opening. A dedicated opening can in rare occasion also serve as a Forest-Based relevant opening or/and an Other potential opening to other Research Areas.

A good example of a A: Research Area dedicated opening is NMP-2007-4.0-1 “Advanced wood-based composites and their production” fitting well to Research Area 1-10: New generation of composites.

B: Forest-Based Sector relevant opening(s)

means that a Call-topic mainly address several Research Areas of the Forest-Based Sector and therefore such an opening normally can fit to research needs in several Research Areas. An example is KBBE-2007-3-1-04 “Forest products – New forest-based products and processes”.

Comment: Both A: Research Area dedicated openings and Forest-Based Sector relevant openings can normally be identified by the topic title in the call text. Evaluators for dedicated topics are expected to come from the forest-based sector.

C: Other potential opening(s)

Are either of generic nature, e.g. in manufacturing, or are of cross-sectoral nature. This means that a proposal would require participation from outside the forest-based sector. In most cases the main participation is from outside the forest-based sector.

Such a call addresses mainly a non-forest sector or has even a very broad character, addressing many sectors. These topics require careful study and understanding to discover opportunities for funding of research or related activities coming from the forest-based sector.

Comment: Evaluators for such a topic will seldom come from the forest-based sector.

Funding opportunities

are based on two parameters – the type of instrument that is indicated to be eligible for the open topic (e.g. Large Scale Projects = LCP) and the overall allocated budgets within the various Thematic Priorities of the Specific Programme Cooperation for the first calls of FP7.

Type of instruments eligible within the first call of FP7:

- Large Scale Collaborative Projects (LCP)
- Small or Medium Collaborative Projects (SMCP)
- Small Collaborative Project (SCP)
- Coordination and Support Actions (CSA)

Comment: The definition of size for projects is new for FP7 and will be used for all areas with exception of ICT, which will keep the project terminology from FP6 (Integrated projects and STREPs).

Overall allocated budget within the various Thematic Priorities of the Specific Programme Cooperation for the first call:

TP 2 (KBBE): 192 MIO €; TP 3 (ICT): 1019 MIO €; TP 4 (NMP): 364 MIO €; TP 5 (Energy): 109 MIO €; TP 6 (Environment): 200 MIO €.

**Research Area 1-1:
A new generation of functional packaging**

1-1 – Comments

No topics in the 1st call are solely dedicated to packaging based on forest-sector materials. (NMP-2007-2.4-3 covers also packaging materials based on vegetable feedstocks.) For fibre-based packaging, this is perhaps not surprising with the FP6 IP Sustainpack still ongoing. Several of the topics under "Other openings" are highly relevant to the forest-based sector (safety issues, food packaging, smaller scale production systems).

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

KBBE-2007-3-1-04 (all types of forest products)	Forest products – New forest-based products and processes	LCP (1)
NMP-2007-4.0-1 (RA 1-1 to 1-10)	Advanced wood-based composites and their production	LCP (>1)

C: Other potential openings

KBBE-2007-2-1-01	Networking of food consumer science in Europe and development and application of social and behavioural sciences to food research	
KBBE-2007-2-1-03	Food labelling and consumer behaviour	
KBBE-2007-2-3-04	Nano-devices for quality assurance, food safety and product properties	
KBBE-2007-2-4-01 (important paper aspect)	Exposure to food additives, flavourings and migrants coming from the packaging. Dietary intake model	
KBBE-2007-2-4-04	Innovative and safe packaging	
(KBBE-2007-2-5-04)	Sustainability of the food chain	
ICT-2007-1.3	ICT in support of the networked enterprise. RFID	
(ICT-2007-3.1)	Next generation nano-electronics components and electronics integration	

ICT-2007-3.2	Organic and large-area electronics, visualisation and display systems	
ICT-2007-3.6 (2 nd call?)	Micro / nano-systems. Paper mentioned	
NMP-2007-1.1-1 (RA 1-1 to 1-10)	Nano-scale mechanisms of bio / non-bio interactions	
NMP-2007-2.1-1 (RA 1-1 to 1-10)	Nano-structured polymer-matrix composite	
NMP-2007-2.4-3	Renewable materials for functional packaging applications	SMCP (>1)
NMP-2007-3.1-2 (RA 1-1 to 1-10)	New added-value user-centred products and product services	
NMP-2007-3.2-1	Rapidly configurable machines and production systems	
NMP-2007-3.4-1	Rapid manufacturing concepts for small series industrial production	
NMP-2007-2.4-3	Renewable materials for functional packaging applications	SMCP (>1)

GAPs relative to the content of the SRA

Despite the existence of the Sustainpack project, vast research needs remain which are not covered by the 1st call. This concerns for example the following activities mentioned in the SRA:

- consumer perceptions and customer expectations
- flexible, on-demand package manufacturing
- packaging materials development
- use of "green" chemicals
- embedded sensors and electronics

The Sustainpack project is likely to result in several follow-up and further development projects. This Research Area is probably best serviced through more targeted SCPs rather than LCPs.

**Research Area 1-2:
Paper as a partner in communication, education and learning**

1-2 – Comments

The broad topic KBBE-2007-3-1-04 is of course open also to this Research Area. No other openings are specific to this area.

Under "Other openings", some possibilities may exist for specific paper-based media and information aspects in some of the ICT calls. The same is the case with the NMP calls.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

KBBE-2007-3-1-04 (all types of forest products)	Forest products – New forest-based products and processes	LCP (1)
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C: Other potential openings

(ICT-2007-1.5)	Networked media	
ICT-2007-3.2	Organic and large-area electronics, visualisation and display systems	
ICT-2007-4.1	Digital libraries and technology-enhanced learning	
(ICT-2007-4.2)	Intelligent content and semantics	
(NMP-2007-1.1-1)	Nano-scale mechanisms of bio / non-bio interactions	
NMP-2007-2.1-1	Nano-structured polymer-matrix composite	
NMP-2007-3.1-2 (RA 1-1 to 1.10)	New added-value user-centred products and product services	
NMP-2007-3.2-1	Rapidly configurable machines and production systems	
(ENV.2007.3.2.1.1)	Damage assessment, diagnosis and monitoring for the preventive conservation and maintenance of the cultural heritage	

GAPs relative to the content of the SRA

This Research Area is essentially not covered in the 1st call. This refers to:

- the role of printed media in the media sector, including interactions between paper and electronic communication
- development of materials and surface properties for printed media
- specific process developments
- the human perception of printed media
- the role of printed information in learning processes.

Research Area 1-3: Advancing hygiene and health care

Comments

The broad topics KBBE-2007-3-1-04 and NMP-2007-4.0-1 are of course open also to this Research Area. This is particularly true for NMP-2007-4.0-1 as some hygiene products truly are composites. It is more doubtful to what extent the KBBE-opening is applicable.

The openings under "Other openings" can certainly provide opportunities. They fit rather well with the SRA needs.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

KBBE-2007-3-1-04 (all types of forest products)	Forest products – New forest-based products and processes	LCP (1)
NMP-2007-4.0-1 (RA 1-1 to 1-10) (all types of wood based composites)	Advanced wood-based composites and their production	LCP (1)

C: Other potential openings

NMP-2007-1.1-1	Nano-scale mechanisms of bio / non-bio interactions	
NMP-2007-3.1-2 (RA 1-1 to 1-10)	New added-value user-centred products and product services	
NMP-2007-3.2-1	Rapidly configurable machines and production systems	
(NMP-2007-4.0-2)	Application of new materials including bio-based fibres in high-added value textile products	
ENERGY.2007.8.1.3	Manufacturing and process industries; innovative energy efficient industrial processes	

GAPs relative to the content of the SRA

Although some of the openings under "Other openings" provide opportunities, it would probably be beneficial with openings that are forest-based sector specific in the areas of:

- the replacement of non-renewable materials in hygiene products
- encapsulating bio-sensors and electric devices into fibrous structures
- customer perceptions linked to product performance

Research Area 1-4: Living with wood

Openings in 1st call

1-4 – Comments

Forest- and wood based products are specifically mentioned in the first two topics (KBBE and NMP). The second topic is clearly open to forest-based industries. Development of new materials for interior applications and furniture could be included in projects addressing this topic.

The openings under "Other openings" could provide opportunities. Some of these openings have a broad character and will therefore require participation from outside the forest-based sector.

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

KBBE-2007-3-1-04 (all types of forest products)	Forest products – New forest-based products and processes	LCP (1)
NMP-2007-4.0-1	Advanced wood-based composites and their production	LCP (>1)

C: Other potential openings

NMP-2007-3.1-2 (all types of forest products)	New added-value user-centred products and product services	
NMP-2007-3.3-1	Innovative customer-driven product-service design in a global environment	
NMP-2007-3.4-1	Rapid manufacturing concepts for small series industrial production	
NMP-2007-4.0-5	Resource-efficient and clean buildings	
NMP-2007-4.0-6	Innovative added-value construction product-services	
ENV.2007.1.2.1.1	Indoor air pollution in Europe: an emerging environmental health issue	
ENV.2007.3.1.5.1	Low resources consumption buildings and infrastructure (SME relevant and Policy relevant topic)	
ENV.2007.3.1.5.2	Performance indicators for health, comfort and safety of the indoor build environment (SME relevant and Policy relevant topic)	

GAPs relative to the content of the SRA

Small opportunities can be seen in these topics, but not with exclusively for the forest-based sector. Projects could include aspects from the wood products area. Mainly environmental aspects are covered under ‘other open topics’.

Research Area 1-5: Building with wood

1-5 - Comments

The NMP-2007-4.0-1 topic is clearly open with feasibility more than 1 LCP to forest-based industries. Development of novel wood based construction materials is part of it. Construction systems and concepts are excluded from this topic.

The openings under "Other openings" could provide opportunities. There two openings addressing construction related activities, resource efficient and clean building and an ERANET. These openings have a broader character and require participation from outside the forest-based sector (e.g. a collaboration with other construction materials).

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

NMP-2007-4.0-1 (all types of wood based composites)	Advanced wood-based composites and their production	LCP (>1)
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C: Other potential openings

(ICT-2007-1.3)	ICT in support of networked enterprise. RFID	
NMP-2007-3.3-1	Innovative customer-driven product-service design in a global environment	
NMP-2007-3.4-1	Rapid manufacturing concepts for small series industrial production	
NMP-2007-4.0-5	Resource-efficient and clean building	
NMP-2007-4.0-6	Innovative added-value construction product-services	
NMP-2007-4.0-7 (ERANET)	ERANET on construction	
ENV.2007.3.1.5.1	Low resources consumption buildings and infrastructure (SME relevant and policy relevant topic)	
(ENV.2007.3.2.1.1)	Damage assessment, diagnosis and monitoring for the preventive conservation and maintenance of the cultural heritage	

GAPs relative to the content of the SRA

Nothing specifically on the development of wood-based building systems and concepts.

Research Area 1-6: Commercialising soft forest values

1-6 - Comments

One FTP-dedicated SCP-project is foreseen as a result of the 1st call. It is directed towards methods for valuing soft forest values and not towards developing such values. This opening will in no way cover the needs. There are, however, in addition several topics under "Other openings" of high relevance to the sector.

Openings in 1st call

A: Research Area dedicated opening

KBBE-2007-1-2-06	Developing new methods for valuing and marketing of currently non-marketable forest goods and services	SCP (1)
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B: Forest-based sector specific openings

None

C: Other potential openings

KBBE-2007-1-4-12	Policy and institutional aspects of sustainable agriculture/forestry and rural development in the Mediterranean countries	
KBBE-2007-1-4-13	New sources of employment in rural areas	
KBBE-2007-1-4-18	External costs of pesticides	
KBBE-2007-3-1-09	Green Factory – the expression and accumulation of valuable industrial compounds in plants	
(ENV.2007.1.1.6.3)	Impacts and feedbacks of climate policies on land use and ecosystems in Europe	
(ENV.2007.2.1.2.1)	Assessing the ecological status of water bodies	
ENV.2007.2.1.4.1	Contribution of bio-diversity to ecosystem services	
ENV.2007.2.1.4.2	Use of natural resources: the impact on biodiversity, ecosystem goods and services	
ENV.2007.2.1.4.3	Bio diversity values, sustainable use and livelihoods	

GAPs relative to the content of the SRA

Examples of activities mentioned in the SRA so far not addressed in the 1st call:

- the use of forests for tourism, recreation and various kinds of non-wood products
- infrastructural developments

Research Area 1-7: Moving Europe with the help of bio-fuels

1-7 - Comments

The specific opening on Forest-based bio-refinery under ENERGY is applicable to this Research Area, although liquid bio-fuels might not be the dominant output from a forest-based bio-refinery. Under "Other openings", there are additional opportunities relevant to this Research Area. All in all, this Research Area is rather well covered in the 1st call. It is noted that the openings are mainly technological.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

ENERGY-2007.3.3.1	Forest-based bio-refinery	LCP (1?)
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C: Other potential openings

KBBE-2007-3-2-06	Bio-ethanol and beyond – Novel enzymes and micro-organisms for biomass conversion to bio-ethanol	
ENERGY.2007.3.2.1	Pre-treatment of lignocellulosic biomass for ethanol production	
ENERGY.2007.3.2.2	New and advanced technologies for hydrolysis and/or fermentation of lignocellulosic biomass	
ENERGY.2007.3.2.5	Synthetic bio-fuels via gasification	
ENERGY-2007.3.3.3	Developing bio-refinery concepts	
SSH-2007-2-1-2	Trade-offs and synergies between the different aspects of sustainable development	
SSH-2007-2-1-4	Socio-economic factors and actors that shape the “post-carbon” society	

GAPs relative to the content of the SRA

The more technological approaches supported in the 1st call should preferably be complemented with techno-economic studies, studies on the role of political measures and a global view on liquid bio-fuels.

Research Area 1-8: Pulp, energy and chemicals from wood bio-refinery

1-8 - Comments

A dedicated opening exists within this Research Area. There are also relevant topics under "Other openings". Some of those are also applicable to other Research Areas, e.g. 1-7. The present specific opening ENERGY.2007.3.3.1 has "by definition" energy as the dominant (but not necessarily only) output. In most cases, pulp will remain the economically most dominant output.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

ENERGY.2007.3.3.1	Forest-based bio-refinery	LCP (1?)
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C: Other potential openings

KBBE-2007-3-2-01	Lignocellulosic enzymes – Development of celluloses for lignocellulosic biomass pre-treatment	
KBBE-2007-3-2-09	Bio-refinery – Biotechnology for the conversion of biomass and waste into value-added products	
NMP-2007-2.4-1	Flexible efficient processing for polymers	
ENERGY.2007.3.2.1	Pre-treatment of lignocellulosic biomass for ethanol production	
ENERGY.2007.3.2.2	New and advanced technologies for hydrolysis and/or fermentation of lignocellulosic biomass	
ENERGY.2007.3.2.5	Synthetic bio-fuels via gasification	
ENERGY.2007.3.3.3	Developing bio-refinery concepts	

GAPs relative to the content of the SRA

All in all, this Research Area is reasonably well covered in the 1st call. Still, several aspects of the wood bio-refinery are identified in the SRA that are not yet covered. This relates in particular to the non-energy outputs of the "pulp mill bio-refinery", including separation and conversion processes.

Research Area 1-9: “Green” specialty chemicals

1-9 - Comments

The broad topic KBBE-2007-3-1-04 is of course open also to this Research Area. No other openings are forest-based sector specific.

There seems to be no openings of a more generic nature where the development of value-added speciality chemicals from forest biomass could find a place.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

KBBE-2007-3-1-04	Forest products – New forest-based products and processes	LCP (1)
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C: Other potential openings

KBBE-2007-3-2-09	Bio-refinery – Biotechnology for the conversion of biomass and waste into value-added products	
(NMP-2007-2.4-1)	Flexible efficient processing for polymers	

GAPs relative to the content of the SRA

This Research Area is essentially not covered in the 1st call. This applies to all three areas identified in the SRA:

- speciality chemicals from pulping spent liquors
- speciality chemicals from cellulose
- speciality chemicals from miscellaneous wood and non-wood constituents.

Research Area 1-10: New generation of composites

1-10 - Comments

The topic NMP-2007-4.0. -1 is clearly open with feasibly more than 1 LCP to this Research Area and covering it to a large extent. The content focuses of the development of advanced wood based composites and their production as it is included in the SRA of the FTP.

Openings in 1st call

A: Research Area dedicated opening

NMP-2007-4.0-1	Advanced wood-based composites and their production	LCP (>1)
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B: Forest-based sector specific openings

NMP-2007-4.0-1	Advanced wood-based composites and their production	LCP (>1)
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C: Other potential openings

NMP-2007-1.1-1	Nano-scale mechanisms of bio / non-bio interactions	
(NMP-2007-2.1-1)	Nano-structured polymer-matrix composite	
NMP-2007-2.5-1	Novel materials tailored for extreme conditions and environments	
NMP-2007-3.1-2 (several RAs)	New added-value user-centred products and product services	
NMP-2007-4.0-3	Multifunctional materials for the future vehicles	

GAPs relative to the content of the SRA

This Research Area has received a dedicated opening in the 1st call.

Research Area 2-1: Reengineering the fibre-based value chain

2-1 - Comments

No openings in the 1st call dedicated to the forest-based sector.
It is questionable whether the pulp and paper industry can take advantage of the topics under "Other openings".

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

NMP-2007-3.1-1	Beyond lean manufacturing – New industrial models for product and process life cycle	
NMP-2007-3.1-2	New added-value user-centred products and product services	

GAPs relative to the content of the SRA

In order to promote this Research Area, it would probably be necessary with a dedicated call. Progress in this Research Area would require strong participation from supplier companies, particularly machinery.

**Research Area 2-2:
More performance from less inputs in paper products**

2-2 - Comments

No dedicated openings in the 1st call.
The topic ENV.2007.3.1.1.1 under "Other openings" is certainly applicable. It is questionable if NMP-2007-3.2.2-2 is applicable to the pulp and paper industry.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

NMP-2007-2.5-2	Modelling of micro-structural evolution under work conditions and in materials processing	
NMP-2007-3.1-1	Beyond lean manufacturing – New industrial models for product and process life cycle	
NMP-2007-3.2-2	Process intensification in chemicals production	
ENV.2007.3.1.1.1	Innovative technologies and services for sustainable water use in industries	

GAPs relative to the content of the SRA

This Research Area is essentially not covered in the 1st call. Due to the specific process and raw materials conditions characteristic of pulp and paper manufacturing, dedicated calls would probably be necessary to promote this key Research Area (sustainability). The current FP6 IP-project Ecotarget might inspire follow-up projects in this area.

**Research Area 2-3:
Reducing energy consumption in pulp and paper mills**

2-3 - Comments

There are no pulp and paper specific openings in the 1st call.
The call ENERGY.2007.8.1.3, covering all industrial sector, is highly relevant. With only one (?) collaborative project anticipated this opening will, however, by no means cover industrial needs and even less the needs of the pulp and paper industry. The same can be said for ENERGY.2007.8.1.1 covering waste heat recovery.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

ENERGY.2007.8.1.1	Manufacturing industry: wastes and waste heat recovery and transfer	
ENERGY.2007.8.1.3	Manufacturing and process industries: innovative energy efficient industrial processes	

GAPs relative to the content of the SRA

Since the pulp and paper industry is a major user of energy (electricity and heat), it can be concluded that most of the activities identified in the SRA are not covered by the 1st call.

**Research Area 2-4:
Advanced technologies for primary wood processing**

2-4 – Comments

There are no wood products specific openings in the 1st call.
The C: Other potential openings are covering all industrial sectors, but parts of those topics are relevant (e.g NMP-2007-3.4-1) for the Woodworking industries. The broad character of these topics could require participation from outside the forest-based sector.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

ICT-2007-2.1	Cognitive systems, interaction, robotics	
NMP-2007-3.1-1	Beyond lean manufacturing – New industrial models for product and process life cycle	
(NMP-2007-3.2-1)	Rapidly configurable machines and production systems	
NMP-2007-3.4-1	Rapid manufacturing concepts for small series and industrial production	
ENERGY.2007.8.1.1	Manufacturing industry: wastes and waste heat recovery and transfer	
ENERGY.2007.8.1.2	Manufacturing industry: SMEs energy innovation	
ENERGY.2007.8.1.3	Manufacturing and process industries: innovative energy efficient industrial processes	

GAPs relative to the content of the SRA

Most of the activities identified in this RA of the SRA are not covered by the 1st call for the wood products industry.

**Research Area 2-5:
New manufacturing technologies for wood products**

2-5 - Comments

There are no wood products specific openings in the 1st call.
The C: Other potential openings are covering all industrial sectors, but parts of the two topics could have relevant parts for the Woodworking industries. The broad character of these topics could require participation from outside the forest-based sector.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

NMP-2007-3.1-1	Beyond lean manufacturing – New industrial models for product and process life cycle	
NMP-2007-3.2-1	Rapidly configurable machines and production systems	

GAPs relative to the content of the SRA

Most of the activities identified in this RA of the SRA are not covered by the 1st call for the wood products industry.

<p>Research Area 2-6: Technologies to boost heat and power output</p>
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(Wood-based bio-refineries handled under RA-1-8)

2-6 - Comments

No dedicated openings in the 1st call, which was on the other hand not expected. The technological aspects of more efficient bio-mass conversion linked to various types of plants, including industrial, are not addressed in the 1st call. The focus regarding bio-energy in the 1st call under ENERGY seems as a whole to be rather on direct bio-energy generation and in particular towards liquid bio-fuels (cf. Research Areas 1-7 and also under 1-8).

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

Cross sectoral

ENERGY.2007.3.2.5	Synthetic bio-fuels via gasification	
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GAPs relative to the content of the SRA

The research activities mentioned in the SRA are to a large extent not covered by the 1st call.

Research Area 3-1: Trees for the future

3-1 - Comments

One LCP dedicated to forestry in the 1st call will not cover all aspects of this wide field, but can serve as an important "centre of gravity".

Openings in 1st call

A: Research Area dedicated opening

KBBE-2007-1-2-05	Novel forest tree-breeding	LCP (1)
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B: Forest-based sector specific openings

None

C: Other potential openings

KBBE-2007-3-1-01	Plant cell walls – understanding plant cell walls for optimizing biomass potential	
KBBE-2007-3-1-02	Energy Plants – novel plants for energy production	

GAPs relative to the content of the SRA

The call text is very extensive and demanding. Items like analyses of risk factors and social acceptance of genetically modified trees are not covered.

Research Area 3-2: "Tailor-made" wood supply

3-2 - Comments

This Research Area is only very marginally addressed in the 1st call. The area is extremely important for the productivity in the forestry area as well as in all the forest-based value chains.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

(KBBE-2007-3-1-01)	Plant cell walls – understanding plant cell walls for optimizing biomass potential	
(KBBE-2007-3-1-08)	Biomass supply and impact – identification of optimal terrestrial and aquatic biomass and waste for bio products	
(ICT-2007-2.1)	Cognitive systems, interaction, robotics	
(ENERGY.2007.3.7.1)	Harmonisation of biomass resource assessment	

GAPs relative to the content of the SRA

See text under Comments.

Research Area 3-3: Streamlined paper recycling

3-3 - Comments

No forest-based sector specific opening exists in this Research Area under the 1st call. The topic ENV.2007.3.1.3.1 under "Other openings" is relevant for the paper sector, but deals only with municipal waste and only one LCP is foreseen. Also, ENV.2007.3.1.3.1 is relevant, but covers all kinds of waste sorting and only one SMCP is anticipated.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

ENV.2007.3.1.3.1	Development of integrated waste management technologies for maximising material and energy recovery/recycling of the organic (humid) fraction of municipal solid waste	LCP (1)
ENV.2007.3.1.3.2	New technologies for waste sorting	SMCP (1)

GAPs relative to the content of the SRA

Considering the fact that recovered paper is a major source of raw material for the paper industry, Research Area 3-3 is insufficiently covered in the 1st call.

**Research Area 3-4:
Recycling wood products - a new material resource**

3-4 - Comments

There are no wood products specific openings in the 1st call.
The C: Other potential openings are covering all industrial sectors and have a broad approach even if some parts of research projects may come from the wood products industries.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

ENV.2007.3.1.3.1	Development of integrated waste management technologies for maximising material and energy recovery/recycling of the organic (humid) fraction of municipal solid waste	
ENV.2007.3.1.3.2	New technologies for waste sorting	

GAPs relative to the content of the SRA

Most of the activities identified in this RA of the SRA are not covered by the 1st call for the wood products industry specifically.

Research Area 4-1: Forests for multiple needs
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4-1 - Comments

This wide and extremely important Research Area is not at all addressed in a European context. A project on Latin-American conditions is, on the other hand, expected.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

ENV.2007.2.1.2.4	Integrated resource management in international cooperation partner countries	
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GAPs relative to the content of the SRA

See text under Comments.

<p>Research Area 4-2: Advancing knowledge on forest ecosystems</p>

4-2 - Comments

There is no topic open in the 1st call that specifically addresses forest eco-systems, despite their importance from economic, environmental and social points of view.

In most of the topics under "Other openings", there is no reference made to forestry and they deal with rather narrow/specialised topics. The first two topics mentioned are both SCPs and broad in scope including all types of eco-systems – marine as well as terrestrial.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

(KBBE-2007-1-2-03)	Development of more efficient risk analysis techniques for pests and pathogens of phytosanitary concern	
ENV.2007.2.1.4.1	Contribution of biodiversity to ecosystem services	
ENV.2007.2.1.4.2	Use of natural resources: the impact on biodiversity, ecosystem goods and services	
(ENERGY.2007.3.7.1)	Harmonisation of biomass resource assessment	
ENV.2007.1.2.3.2	Geographical information systems in support for environment and health research	
ENV.2007.2.1.2.1	Assessing the ecological status of water bodies	
ENV.2007.2.1.4.3	Biodiversity values, sustainable use and livelihoods	
ENV.2007.4.1.1.2	Contribution to a global biodiversity observation system	

GAPs relative to the content of the SRA

Key forest eco-systems activities identified in the SRA are not addressed in the 1st call.

Research Area 4-3: Adapting forestry to climate change

4-3 - Comments

There is no topic open in the 1st call that specifically addresses forestry in relation to climate change. As forests cover more than 30% of the European land surface, have an important role as carbon absorbers, as protectors of bio-diversity, for the water resources etc, it is hoped that this Research Area will be addressed in subsequent calls.

The majority of the openings are policy-oriented rather than addressing the development and understanding of potential climatic effects. Only in a few cases, specific reference is made to the forest sector.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings:

None

C: Other potential openings

(ENV.2007.1.1.3.1)	Ocean acidification and its consequences	
ENV.2007.1.1.5.1	Climate change impacts and adaptation strategies in water policies	
ENV.2007.1.1.5.2	Climate change impacts on vulnerable mountain regions	
ENV.2007.1.1.6.1	Full costs of climate change	
ENV.2007.1.1.6.3	Impacts and feedbacks of climate policies on land use and ecosystems in Europe	
ENV.2007.1.1.6.4	Exploitation and dissemination of climate change research results and public perception	
ENV.2007.1.3.1.1	European storm risk	
ENV.2007.1.3.2.1	Frame for better vulnerability assessment	
ENV.2007.1.3.3.2	Harmonising avalanche forecasting, risk mapping and warning	
ENV.2007.1.3.3.3	Investigating Europe's risk from draughts	
ENV.2007.1.3.4.1	European (multi-)hazard database analysis	
ENV.2007.2.1.3.1	Geographical transect approach to desertification	
ENV.2007.4.1.1.1	Monitoring of the carbon cycle at the global level	

GAPs relative to the content of the SRA

The essential activities mentioned in the SRA have not been addressed in the 1st call.

**Research Area 5-1:
Assessing the overall performance of the sector**

5-1 - Comments

No topic is opened in the 1st call, which is specifically dedicated to the forest-based sector. As regards activities concerning sustainability assessment, this can be understood, as the FP6 IP-project Eforwood is still ongoing.

The topics under "Other openings", e.g. topics ENV.2007.4.2.1.1 and 4.2.2.1, are in most cases very general, but certainly do not preclude projects related to the forest-based sector.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

KBBE-2007-1-4-01	Developing the KBBE (Knowledge-Based BioEconomy)	
KBBE-2007-1-4-02	Enabling efficient transfer of technology in the knowledge-based bio-economy	
ENV.2007.4.2.1.1	Methodologies for scaling down to the regional and local level the analysis of policy impacts on multifunctional land uses and the economic activity	SMCP (>1)
ENV.2007.4.2.2.1	Bridging mainstream indicators of economic performance with sustainable development objectives	
SSH-2007-1.2.1	Globalisation and its interaction with the European economy	
SSH-2007-2.1.2	Trade-offs and synergies between the different aspects of sustainable development	
SSH-2007-2.1.4	Socio-economic factors and actors that shape the "post-carbon" society	

GAPs relative to the content of the SRA

The most important development needs in this area should probably best be derived from the Eforwood project. Such projects are likely to be found in a variety of fields.

**Research Area 5-2:
Instruments for good forest-sector governance**

5-2 - Comments

No topic is opened in the 1st call, which is specifically addressing the forest-based sector. Several of the topics listed under "Other openings" have also been listed for other research areas.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

KBBE-2007-1-4-01	Developing the KBBE (Knowledge-Based BioEconomy)	
KBBE-2007-1-4-11	Assessing the impact of rural development policies (incl. Leader)	
KBBE-2007-1-4-12	Policy and institutional aspects of sustainable agriculture/ forestry and rural development in the Mediterranean countries	
KBBE-2007-1-4-13	New sources of employment in rural areas	
KBBE-2007-1-4-18	External costs of pesticides	
ENERGY.2007.9.2.1	Energy foresight network	
ENERGY.2007.9.2.2	Energy technology watch	
ENV.2007.2.1.4.3	Biodiversity values, sustainable use and livelihoods	
ENV.2007.4.2.1.1	Methodologies for scaling down to the regional and local level the analysis of policy impacts on multifunctional land uses and the economic activity	
ENV.2007.4.2.3.1	Policies to promote sustainable consumption patterns	
SSH-2007-1.1.2	Intangible investments and innovation in Europe	
(SSH-2007-1.2.2)	The implications of developments in the service economy for the European economy and society	
SSH-2007-2.1.2	Trade-offs and synergies between the different aspects of sustainable development	
SSH-2007-2.1.3	Development and applications of tools for the	

	assessment of policies and socio-economic forecasting	
SSH-2007-2.2.1	Regional development challenges in an evolving international context	
SSH-2007-2.2.2	The impact of Common Agricultural Policy (CAP) reforms on Europe's rural economies	

GAPs relative to the content of the SRA

Sector-specific calls (as SCPs) regarding activities mentioned in the SRA would be welcome.

Research Area 5-3: Citizens' perceptions

5-3 - Comments

No topic is opened in the 1st call, which is specifically addressing the forest-based sector. Most of the topics listed under "Other openings" have also been listed for other research areas.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings

KBBE-2007-1-4-01	Developing the KBBE (Knowledge-Based BioEconomy)	
KBBE-2007-1-4-02	Enabling efficient transfer of technology in the knowledge-based bio-economy	
KBBE-2007-1-4-11	Assessing the impact of rural development policies (incl. Leader)	
KBBE-2007-1-4-12	Policy and institutional aspects of sustainable agriculture/ forestry and rural development in the Mediterranean countries	
KBBE-2007-1-4-13	New sources of employment in rural areas	
(KBBE-2007-1-4-18)	External costs of pesticides	
(ENV.2007.1.1.6.4)	Exploitation and dissemination of climate change research results and public perception	
ENV.2007.4.2.3.1	Policies to promote sustainable consumption patterns	

GAPs relative to the content of the SRA

The key topics mentioned in the SRA are not addressed in the 1st call, such as:

- analysis of driving forces related to the forest-based sector
- analysis of perceptions and values related to the forest-based sector as a whole
- methods to identify "weak signals" from society and social changes
- communication strategies related to citizens' perceptions.

No specific RA

Comment

This approach has not been specifically addressed in the FTP SRA.

Openings in 1st call

A: Research Area dedicated opening

None

B: Forest-based sector specific openings

None

C: Other potential openings:

KBBE-2007-3-3-04	Useful waste – Novel biotechnology approaches for utilizing wastes, including aquaculture wastes, to make high added value products	
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