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Europaprogrammen / VINNOVA

- **Sedan 2006 enhet under VINNOVAs internationella avdelning.**
- **Samlad NCP (national contact point) organisation**
  - **EU-kommissionens förlängda arm för information och rådgivning om ramprogrammet för forskning och utveckling.**
  - **Namngivna kontaktpersoner för alla områden i ramprogrammet.**
  - **Får löpande information, utbildning m.m. av EU-kommissionen**
  - **NCP-organisationer finns i varje EU-land och är nationellt finansierade och organiserade. Nätverk i Europa.**
- **Primär målgrupp: Svenska forskare, företag, universitet och vidareförmedlare (t ex EU-handläggare).**
- **Kontor i Stockholm (Mäster Samuelsgatan) och i Bryssel.**
- **12 personer, 10 i Stockholm och 2 i Bryssel.**

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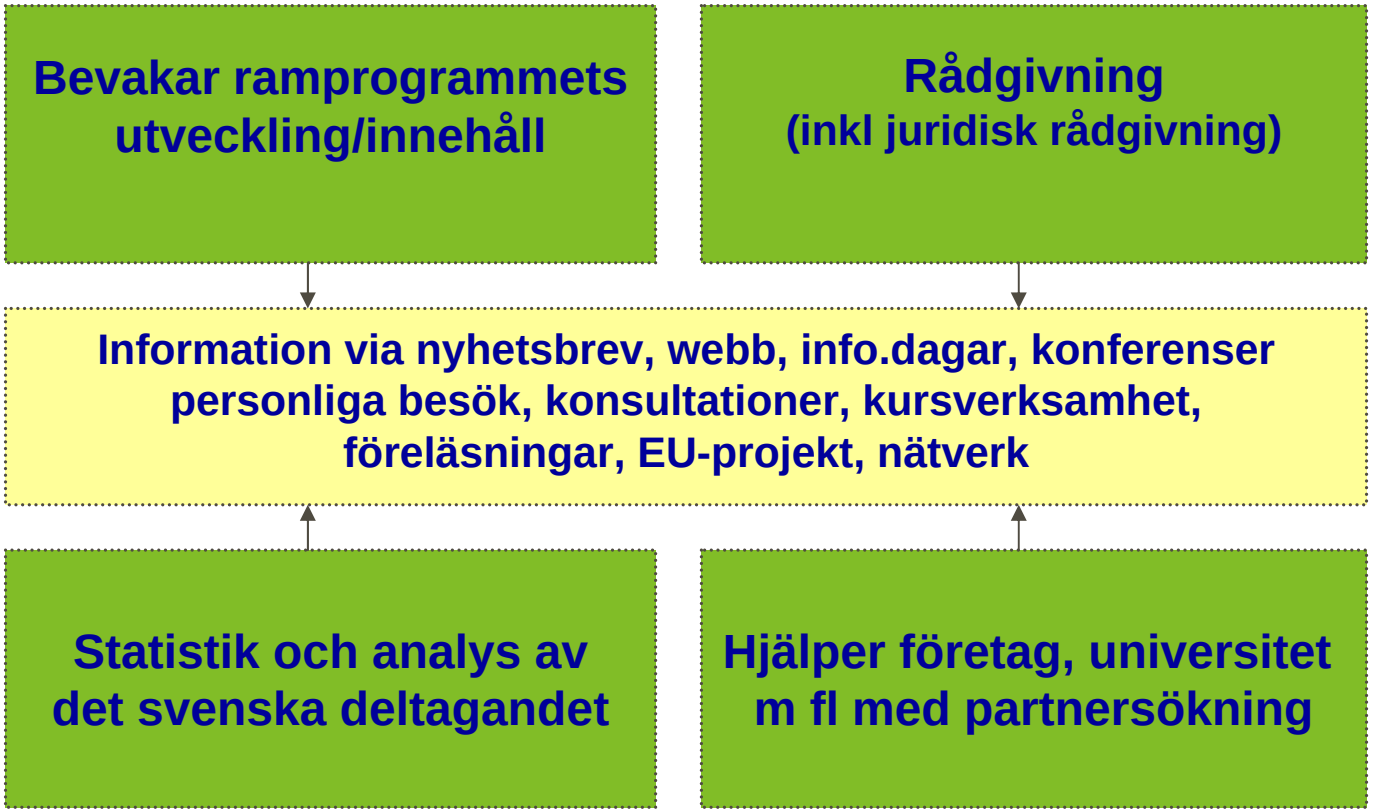
Huvuduppgifter



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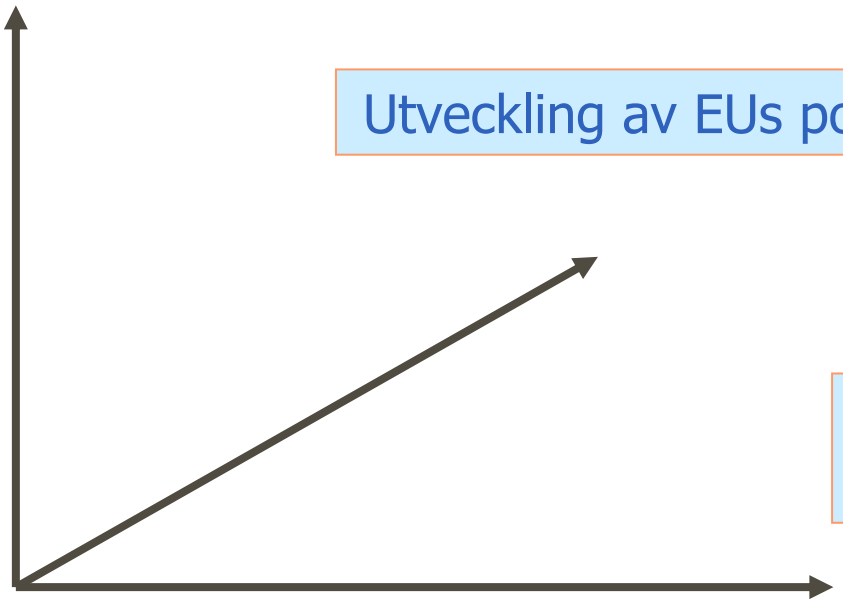
SEVENTH FRAMEWORK
PROGRAMME

Ramprogrammets forskning måste stödja mål i flera dimensioner

Lösande av EUs problem



Utveckling av EUs politiska mål

Vetenskaplig och teknisk utveckling

Kommissionen ser det som att dom stödjer en forskningspolicy – dom är inte bara en källa till finansiering!

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Organisationens roll i samverkansforskningsprojektet?

- High tech or low tech organisation?
- Forskningsutförare
- Teknikutvecklare (standardisering)
- Underleverantör
- Slutanvändare av resultat
- Internationell expansion

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FP7 2007 - 2013

Specific Programmes

Cooperation **– Collaborative research**

Ideas **– Frontier Research**

People **– Human Potential**

Capacities **– Research Capacity**

+

JRC (non-nuclear)

JRC (nuclear)

Euratom

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Cooperation – Collaborative research

10 Thematic Priorities

1. Health
2. Food, agriculture and biotechnology
3. Information and communication technologies
4. Nanosciences, nanotechnologies, materials and new production technologies
5. Energy
6. Environment (including climate change)
7. Transport (including aeronautics)
8. Socio-economic sciences and the humanities
9. Space
10. Security

(11. Euratom: Fusion, fission and radiation protection)

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Capacities – Research Capacity

1. Research Infrastructures
2. Research for the benefit of SMEs
3. Regions of Knowledge
4. Research Potential
5. Science in Society
6. Support to the coherent development of research policies
7. Activities of International Cooperation

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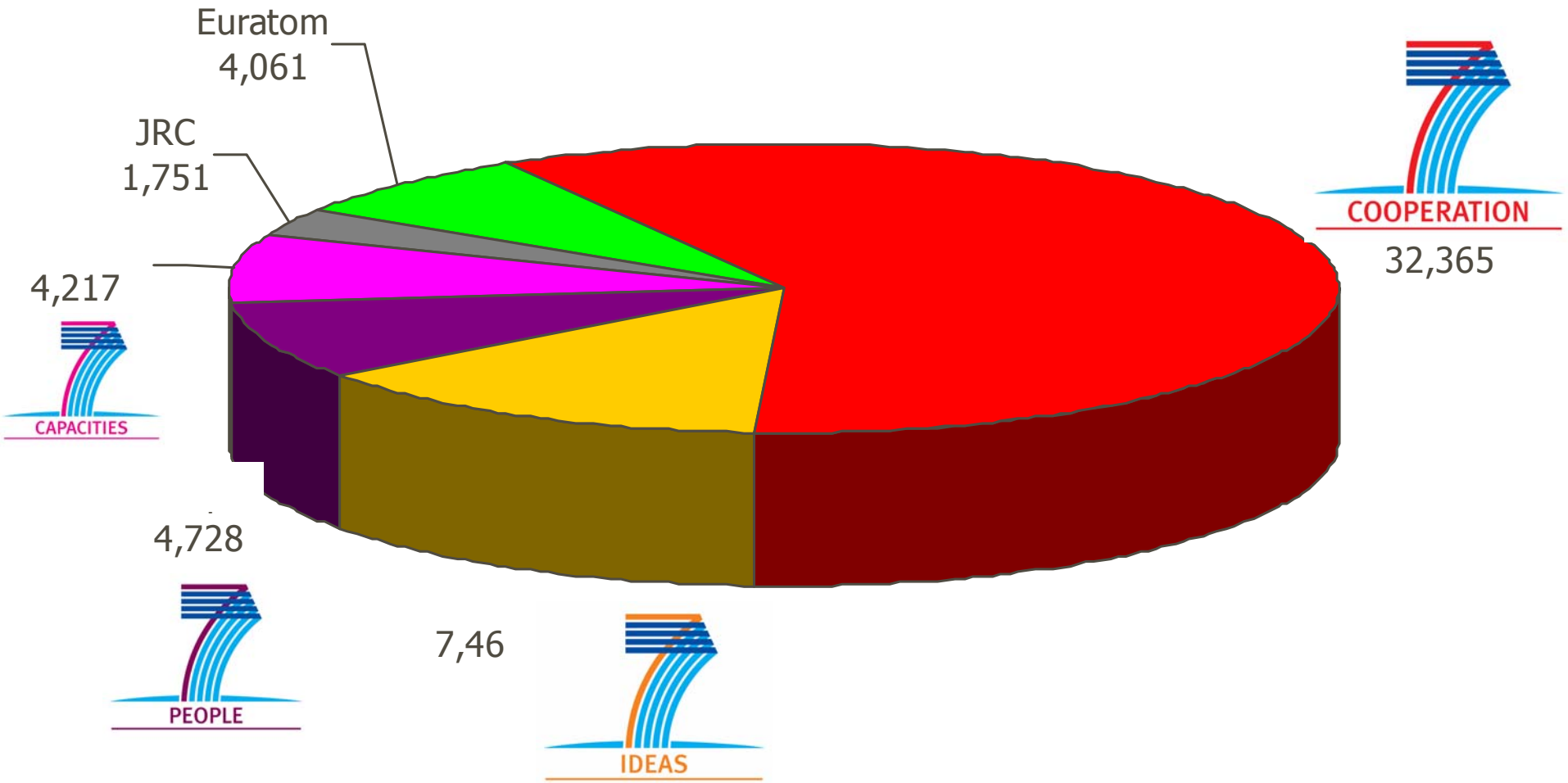
FP7 budget - 54,582 (incl. Euroatom)

(EUR billion, 2004 constant prices)



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FP7 2007-2013
'Cooperation' budget

I. Cooperation	Budget (€ million, 2004 constant prices)
1. Health	6050
2. Food, and agriculture and Biotechnology	1935
3. Information and Communication Technologies	9110
4. Nanotechnologies, materials and production	3500
5. Energy	2300
6. Environment	1900
7. Transport	4180
8. Socio-economic and Humanities	610
9. Security & Space	2780
Total	**32365***

*** Not including non-nuclear activities of the Joint Research Centre: €1 751 million**

FP7 2007-2013
'Capacities' budget

I. Capacities	Budget (€ million, 2004 constant prices)
Research Infrastructure	1850
Research for the benefit of SMEs	1336
Regions of Knowledge	126
Research Potential	370
Science in Society	280
International Co-operation	182
Total	4217

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People Marie Curie Actions FP7

Initial training of researchers
Initial Training Networks*

Life-long training and career development
Intra-European Fellowships / European Reintegration Grants
Co-funding of regional/national/international programmes

Industry-academia pathways and partnerships
Industry-Academia Partnerships and Pathways*

International dimension
Outgoing & Incoming* International Fellowships; International Cooperation Scheme; International Reintegration grants; Support to researcher 'diasporas'*

Specific actions
Mobility and career enhancement actions; Excellence awards

*** Open to third-country nationals**

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Marie Curie Actions in FP7: IAPP

Objectives

- Industry involvement
- Industry-academia
- Diverse careers
- Knowledge sharing/cultural exchange
- «Private commercial enterprise»

Main features

- Longer-term co-operation between sectors
- Staff secondments & recruitment of experienced researchers
- Salary costs
- Networking & workshops/conferences costs
- SMEs: small equipment costs
- Project duration: 3 to 4 years

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Marie Curie Actions in FP7: IAPP

Participants

≥ 1 university/research centre + ≥ 1 private sector

≥ 2 different Member/Associated countries, of which at least 1 from a Member State

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Marie Curie Actions in FP7: IAPP

Participants

- ≥ 1 university/research centre + ≥ 1 private sector
- ≥ 2 different MS/AC, of which at least 1 from a Member State

Targeted researchers

- **Staff exchange**: at all level of experience, incl. technical & managerial staff
  - Exchange period: **2 months** to **2 years**
  - Obligatory **return** for **at least 1 year**
- **Recruitment:** only experienced researchers
  - Nationals of any country other than the host one
  - No limit on 3rd countries nationals
  - Recruitment period: **1** to **2 years**

Community Contribution

- Staff secondments
- Temporary hosting of recruited researchers
- Networking and workshops/conferences organisation costs for both staff members and researchers from outside the partnership
- Specific small equipment for SMEs: <10% total contribution

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Cooperation:
Collaborative research in FP7

Thematic Priorities

1. **Health**
2. Food, agriculture, fisheries and biotechnology
3. Information and communication technologies
4. Nanosciences, nanotechnologies, materials and new production technologies
5. Energy
6. Environment (including climate change)
7. Transport (including aeronautics)
8. Socio-economic sciences and the humanities
9. Security
10. Space

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Next steps for the Health theme

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- First deadline >900 proposals
  - second call: OJ 18th of June Deadline 18 September 2007
    €532 million[1]

[1]: pending approval of 2008 budget

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First calls for the Health theme

- One-step evaluation
- Electronic submission only
- Eligibility
  - deadlines
  - minimum number of participants/countries
  - completeness of proposal
  - relevance to the objectives of the work programme
  - funding ceilings
- Length of proposals limited
  - max. number of pages (others will be ignored)

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Funding schemes for research in FP7

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- **Collaborative projects** to develop new knowledge, new technology, products, demonstration activities
  - **Small- or medium-scale focused research actions** (FRP)
  - **Large-scale integrating projects** (IP)
  - **Projects targeted at special groups** (SMEs & SICA)
- **Networks of Excellence** (NoE)
- **Coordination actions** (CA) and **support actions** (SA)
- **ERA-Nets**

- Support for investigator driven research by individual teams (**ERC**)
- Support for training and career development of researchers
- Research for the benefit of specific groups (in particular SMEs)

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Funding levels in the Health theme

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Warning: these will be an eligibility criteria !

	min.	max.*
➢ **Small- or medium-scale** FRP		€3m
➢ **Large-scale** (IP)	> €6m	€12m
➢ **Projects targeted at** (SMEs & SICA)		€3m
➢ **Networks of Excellence** (NoE)	> €6m	€12m
➢ **Coordination actions** (CA)		
➢ **Support actions** (SA)		
➢ **ERA-Nets** (for cancer topic)		€2m

* except where otherwise stated in work programme.

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Ethical framework in FP7

Same as for FP6

with a revision foreseen for 2nd phase of FP7 (2010-2013)

3 areas are excluded from funding

- Human reproductive cloning
- Intentional germ line modification*
- Creation of human embryos for research or stem cell procurement *(including by means of somatic cell nuclear transfer)*

* Research relating to cancer of the gonads can be financed

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Collaborative research in the Health theme

Main policy drivers:

- **Improving health** of European citizens
- **Increasing competitiveness** of European health-related industries and businesses
- **Addressing global health issues,** including emerging epidemics

- Budget:

➢ **€6.1 billion over 7 years** (2007-2013)

Scope of research
in the Health Theme

- In the Health theme, the Framework programme supports basic and applied collaborative research
- This includes discovery activities, translational research and early clinical trials (normally only phase I and II)

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Collaborative research in the Health theme

Activities in 3 main areas:

- Biotechnology, generic tools and technologies for human health
- Translating research for human health
- Optimising the delivery of healthcare to citizens

Main features of transition from FP6 to FP7:

Continuity; broader scope; less focus on genomics;
re-introduction of biomedical technology & engineering;
emphasis on translational research;
health policy driven research reinforced.

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Collaborative research in the Health theme

Two other issues will be addressed across all activities:

- Child health
- The health of the ageing population

- Throughout all work programme topics, where appropriate.
- Through specific topics

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Cross-cutting aspects **for the Health theme in FP7**

Special emphasis and measures for:

- SMEs
  - Participation encouraged in all areas
  - Special topics for SMEs
  - Support actions

- International Cooperation
  - Participation possible in all areas
  - Special International Cooperation Actions (SICA)
  - Coordination or Support actions

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Collaborative research in the Health theme

VINNOVA

1: Biotechnology, generic tools and technologies

- High-throughput research
  enhancing data generation, standardisation, acquisition & analysis
- Detection, diagnosis and monitoring
  with emphasis on non-invasive or minimally invasive approaches
- Predicting suitability, safety and efficacy of therapies develop and validate parameters, tools, methods and standards (**mainly through IMI**) and alternatives to animal testing
- Innovative therapeutic approaches and interventions
  gene and cell therapy, regenerative medicine, immunotherapy and vaccines.

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Collaborative research in the Health theme

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Topics from first calls in Biotech, tools & technologies

High-throughput research

Topics for second call (18 September 2007):

- **SME-driven collaborative research projects for developing tools and technologies for high-throughput research.**
(FRP targeted to SMEs)

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Collaborative research in the Health theme

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Topics from first calls in Biotech, tools & technologies

Detection, diagnosis and monitoring

Topics for second call (18 September 2007):

- **Standardisation and improvement of pre-analytical procedures for *in vitro* diagnostics** "involvement of industry recommended" (NoE).
- **High throughput molecular diagnostics in individual patients for genetic diseases with heterogeneous clinical presentation** "should offer opportunities for exploitation, preferably through SMEs" (FRP).

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Collaborative research in the Health theme

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Topics from first calls in Biotech, tools & technologies

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Predicting suitability, safety and efficacy of therapies

To be implemented through Innovative Medicines Initiative (IMI)

- A dedicated structure will be established to support research in this area through calls for proposals and using peer evaluation
- Requires approval for as a joint undertaking (Article 171)
- Process for a Council decision to be launched early in 2007
- Currently developing governance structure: legal entity, financial engineering, governance rules, IPR rules
- First Work Programme to be developed from Strategic Research Agenda
- Foreseen to become operational in late 2007
- EC contribution to the budget to be approved in 2007
- Member States contact group

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Collaborative research in the Health theme

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Collaborative research in the Health theme

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Topics from first calls in Biotech, tools & technologies

Innovative therapeutic approaches and interventions

Topics for second call (18 September 2007):

Gene therapy

- **Development of emerging gene therapy tools and technologies for clinical application** (IP).
- **Gene therapy tools targeting the central nervous system** (FRP).

Regenerative medicine

- **Stem cell lines for cell-based therapies** (one or more IP).
- **Development of stem cell culture conditions** (FRP).
- **Stem cells for kidney regeneration** (FRP).
- **Adding value to EU stem cell therapy research: scientific communication and future perspectives** (CA or SA).

Topics from first calls on responding to policy needs

(Area 4.2)

Topics for second call (18 September 2007):

Paediatric medicinal products

- **Adapting off-patent medicines to the specific needs of paediatric populations** (FRP - Max. €6m).

Ref.: priority list of paediatric working party of EMEA (www.emea.europa.eu)

Drug safety research

- **Relative safety of non-steroidal anti-inflammatory drugs (NSAIDs)** (FRP).

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Collaborative research on the Health theme

VINNOVA

2: Translating research for human health

- Integrating biological data and processes:
  large-scale data gathering, systems biology
- Research on the brain and related diseases,
  human development and ageing
- Translational research in major infectious diseases:
  to confront major threats to public health
  antimicrobial drug resistance, HIV/AIDS, malaria and TB,
  emerging epidemics, neglected infectious diseases
- Translational research in other major diseases:
  cancer, cardiovascular disease, diabetes and obesity,
  rare diseases, and other chronic diseases

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Collaborative research on the Health theme

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Topics from first calls in Translating research for health

Integrating biological data and processes: **Systems biology**

Topics for second call (18 September 2007):

- **Multidisciplinary fundamental genomics and molecular biology approaches to study basic biological processes relevant to health and diseases** (FRP).
- **International activities in large scale data gathering for functional genomics** (CA or SA).
- **Preparing for the future challenges of systems biology** (CA or SA).

SICA topic:

- **Traditional Chinese Medicine in post-genomic era**

Targeted region: China (CA or SA).

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Collaborative research on the Health theme

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Topics from first calls in Translating research for health

Research on the Brain and related diseases:

Topics for second call (18 September 2007):

- **Restorative approaches for therapy of neurodegenerative diseases** (FRP – max. €6m).
- **From mood disorders to experimental models** (IP).
- **Neuronal mechanisms of vision and related diseases** (FRP).

SICA topic:

Childhood and adolescent mental disorders
Targeted region: Eastern European & Central Asia and Western Balkans (FRP).

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Collaborative research on the Health theme

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Topics from first calls in Translating research for health

Anti-microbial drug resistance:

Topics for second call (18 September 2007):

- **Novel targets for drugs against Gram negative bacteria** (FRP – max. €6m).
- **Host-pathogen interactions in infections by *Streptococcus pneumoniae*** (FRP).
- **An integrated platform for development and clinical evaluation of point-of-care diagnostic devices for microbial detection, antibiotic susceptibility determination and biomarkers** (NoE).
- **Molecular epidemiology to control nosocomial and community spreading of highly virulent multi-drug resistant strains of bacterial pathogens** (FRP).
- **Health and economic cost of antimicrobial resistance** (CA or SA).
- **Conference on genetic and biochemical tools for post-genomic physiological analysis of *Staphylococcus*, in particular MRSA** (CA or SA).

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Topics from first calls in Translating research for health

HIV/AIDS, malaria and tuberculosis (2)

Topics for second call (18 September 2007):

- **Network on HIV and anti-HIV drug resistance** (NoE).
- **HIV and Hepatitis co-infection** (CA or SA).
- **Blocking the transmission of malaria: the mosquito vector target** (FRP).
- **European network for study and clinical management of TB drug resistance** (NoE).
- **Support platform for the development of PRD vaccines** (CA or SA).

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Topics from first calls in Translating research for health

HIV/AIDS, malaria and tuberculosis (3)

SICA topics for second call (18 September 2007):

- **Highly innovative research in HIV/AIDS, malaria and tuberculosis between Indian and European partners.**
  Targeted Region: India. Other ICPCs are also encouraged to join (FRP).
- **Coordination of European research activities with global initiatives, including Public-Private Partnerships.**
  Targeted Regions: ICPC (CA or SA).
- **Next generation of researchers for HIV/AIDS, malaria, tuberculosis and neglected infectious diseases.**
  Targeted Regions: ICPC (CA or SA).

ICPC: International Cooperation Partner Countries

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Topics from first calls in Translating research for health

Potentially new and re-emerging epidemics

Topics for second call, deadline 18 September 2007:

- **Strengthening research on prediction, identification, modelling and surveillance of newly emerging infectious diseases in humans** (NoE).
- **Definition of research needs and priorities in Europe in the area of Emerging Infectious Epidemics** (CA or SA).

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Topics from first calls in Translating research for health

Neglected infectious diseases

SICA topics for second call (18 September 2007):

- **Development of new tools to control infectious due to parasites of the Trypanosomatidae family.**
Targeted regions: ICPC (FRP).
- **Development of a Leishmania vaccine.**
Targeted regions: ICPC (FRP).
- **Bioprospecting for drug leads.**
Target area: ICPC (FRP).

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Collaborative research on the Health theme

VINNOVA

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Topics from first calls in Translating research for health

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Cancer (2)

Topics for second call (18 September 2007):

- **Innovative combination clinical trials for multimodal cancer therapy** (IP).
- **Role of inflammation in tumour initiation and progression** (IP).
- **Epidemiology of gene-environment interactions involved in carcinogenesis** (IP).
- **Translating the hypoxic tumour microenvironment** (IP).
- **ERA-NET on optimisation of the use of cancer registries for cancer research purposes** (CA, through a joint call for ERA-NETs across the Themes. max. EC contribution €2m).

SICA topic for second deadline (18 September 2007):

- **Studying cancer aetiology in Latin America**.

Targeted region: Latin America (FRP).

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Topics from first calls in Translating research for health

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Cardiovascular disease

Topics for second call, deadline 18 September 2007:

- **Congenital pathologies affecting the heart** (FRP).
- **Cell therapies for the treatment of heart ischemia** (FRP).
- **Organ imaging in CVD** (FRP).
- **Integrating pharmacogenomic approaches into the treatment of CVD** (FRP).

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Topics from first calls in Translating research for health

Diabetes and obesity (2)

Topics for second call (18 September 2007):

- **Nutritional signals and the development of new diabetes/obesity therapeutic agents** (FRP – max. €6m).
- **Markers and treatment for diabetic neuropathy complications**. (FRP – max. €6m).
- **Geno- and phenotypical differentiation of type 2 subjects and monogenic subjects** (FRP – max. €6m).
- **Use of beta cell imaging in diabetes mellitus** (FRP – max. €6m).

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Topics from first calls in Translating research for health

Other chronic diseases (2)

Topics for second call (18 September 2007):

- **Understanding and combating age-related muscle weakness** (IP).
- **Translational research aiming for a treatment of urinary incontinence** (FRP).
- **Early processes in the pathogenesis of chronic inflammatory diseases** (IP).

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Collaborative research in the Health theme

3: Optimising the delivery of health care to citizens

- Translating clinical research into clinical practice
  patient safety, better use of medicines, benchmarking, pharmacovigilance, etc.
- Quality, efficiency and solidarity of health care systems
  organisational and financial aspects, health systems, etc.
- Enhanced health promotion and disease prevention providing evidence of best public health measures – life styles, interventions, special focus on mental health, etc.

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Collaborative research in the Health theme

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Topics from first calls in Optimising the delivery of healthcare

Translating the results of clinical research…

Topics for second call (18 September 2007):

- **Implementation of research into healthcare practice** (FRP).
- **Self-medication and patient safety** (FRP).
- **Patient Safety Research Network** (CA).
- **Improving clinical decision making** (FRP).
- **Better use of medicines** (FRP).
- **Continuity of clinical care** (FRP).
- **Patient self-management of chronic disease** (FRP).

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Collaborative research in the Health theme

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Topics from first calls in Optimising the delivery of healthcare

"… Healthcare systems…"

Topics for second call (18 September 2007):

- **Evaluation of disease management programmes** (FRP).
- **Health systems and long term care of the elderly** (FRP).
- **Mobility of health professionals** (FRP).
- **Health care human resource planning in nursing** (FRP).
- **Clinician working time and patient safety** (FRP).
- **Health outcome measures and population ageing** (FRP).
- **Trends of population health** (FRP).
- **European system of Diagnosis-related groups** (FRP).

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Collaborative research in the Health theme

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Topics from first calls in Optimising the delivery of healthcare

Enhanced health promotion and disease prevention

Topics for second call (18 September 2007):

- **Promoting healthy behaviour in children and adolescents** (FRP).
- **Interventions addressing the gradient of health inequalities** (FRP).
- **Public health interventions addressing the abuse of alcohol** (FRP).
- **Evaluation of suicide prevention strategies across and within European countries** (FRP).
- **Improve vaccination coverage** (FRP).

- www.cordis.lu

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Topics from first calls

Optimising the delivery of healthcare

Horizontal CA & SA

Topics for second call (18 September 2007):

- **Disease networks of centres of reference.** Scoping study (SA).
- **Effectiveness of health investments.** Scoping study (SA).
- **Patient mobility and access to information.** Scoping study (CA or SA).
- **Brokering research into policy.** Scoping study (SA).
- **A road-map for ageing research** (CA or SA).
- **Health Services Research conference** (SA).
- **Mental health research conference** (SA).
- **Public Health intervention research conference** (SA).

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Topics from first calls

Optimising the delivery of healthcare

SICA topics

SICA topics for second call (18 September 2007):

- **Epidemiological investigations into long-term trends of population health as consequence of socio-economic transitions, including life-style induced health problems.**

Targeted regions: MPC, Russia, Eastern European and Central Asia (FRP).

- **Universal and equitable access to health care and health financing.**

Targeted regions: MPC, ACP, Asia and Latin America (FRP).

- **Health care intervention research – optimising hospital care.**

Targeted region: Western Balkans (FRP).

- **Health care intervention research – improving pre-natal and maternal care.**

Targeted regions: ACP and MPC (FRP).

MPC: Mediterranean Partner countries
ACP: African, Caribbean and Pacific countries

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Topics from first calls on responding to policy needs

Topics for second call (18 September 2007):

Framework Convention on Tobacco Control

- **Effectiveness of fiscal policies for tobacco control in Europe** (FRP).

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Other actions across the Health theme

To contribute to the implementation of the FP and the preparation of future Community research and technological development policy:

- Support to NCPs
- SMEs
- Patients' needs
- Science communication
- Impact of legislation
- Promotion of International participation

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Topics from first calls across the Health Theme

SICA topic for second call (18 September 2007):

- **Promotion and facilitation of international cooperation in areas relevant to the objectives of this Theme.**

Actions should aim at networking scientists for stimulating the creation of research consortia and the identification of priorities of common interest in health research.
Targeted regions: ICPC (CA or SA).

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Framework Programme 7: http://cordis.europa.eu/fp7

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VINNOVA stöd

- **SMINT 150 000 plus 25 000 (6 veckor innan)**
- **Planeringsbidrag kooordinatörer 200 000 plus 50 000 (2 mån)**

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Information

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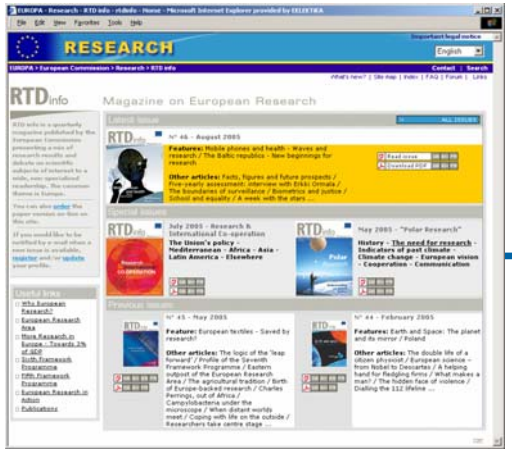

- EU research: http://ec.europa.eu/research
- Seventh Framework Programme: http://ec.europa.eu/research/fp7
- Information on research programmes and projects: http://www.cordis.lu/
- RTD *info* magazine: http://ec.europa.eu/research/rtdinfo/
- Information requests: http://ec.europa.eu/research/enquiries/

- www.europaprogrammen.se