



Universiteit Utrecht

Faculty of Science

# Investigator-Driven funding

FP7/Marie Curie/ERC, NWO

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# Outline

- Give overview of FP7 funding of the European Commission
- Focus on:
  - Marie Curie programme
  - European Research Council
- Brief information on relevant NWO schemes



# European Commission Directorates-General and Services

## POLICIES

- ▶ Agriculture and Rural Development
- ▶ Competition
- ▶ Economic and Financial Affairs
- ▶ Education and Culture
- ▶ Employment, Social Affairs and Equal Opportunities
- ▶ Energy and Transport
- ▶ Enterprise and Industry
- ▶ Environment
- ▶ Executive Agencies
- ▶ Maritime Affairs and Fisheries
- ▶ Health and Consumers
- ▶ Information Society and Media
- ▶ Internal Market and Services
- ▶ Joint Research Centre
- ▶ Justice, Freedom and Security
- ▶ Regional Policy
- ▶ Research
- ▶ Taxation and Customs Union

## EXTERNAL RELATIONS

- ▶ Development
- ▶ Enlargement
- ▶ EuropeAid - Co-operation Office
- ▶ External Relations
- ▶ Humanitarian Aid
- ▶ Trade

## GENERAL SERVICES

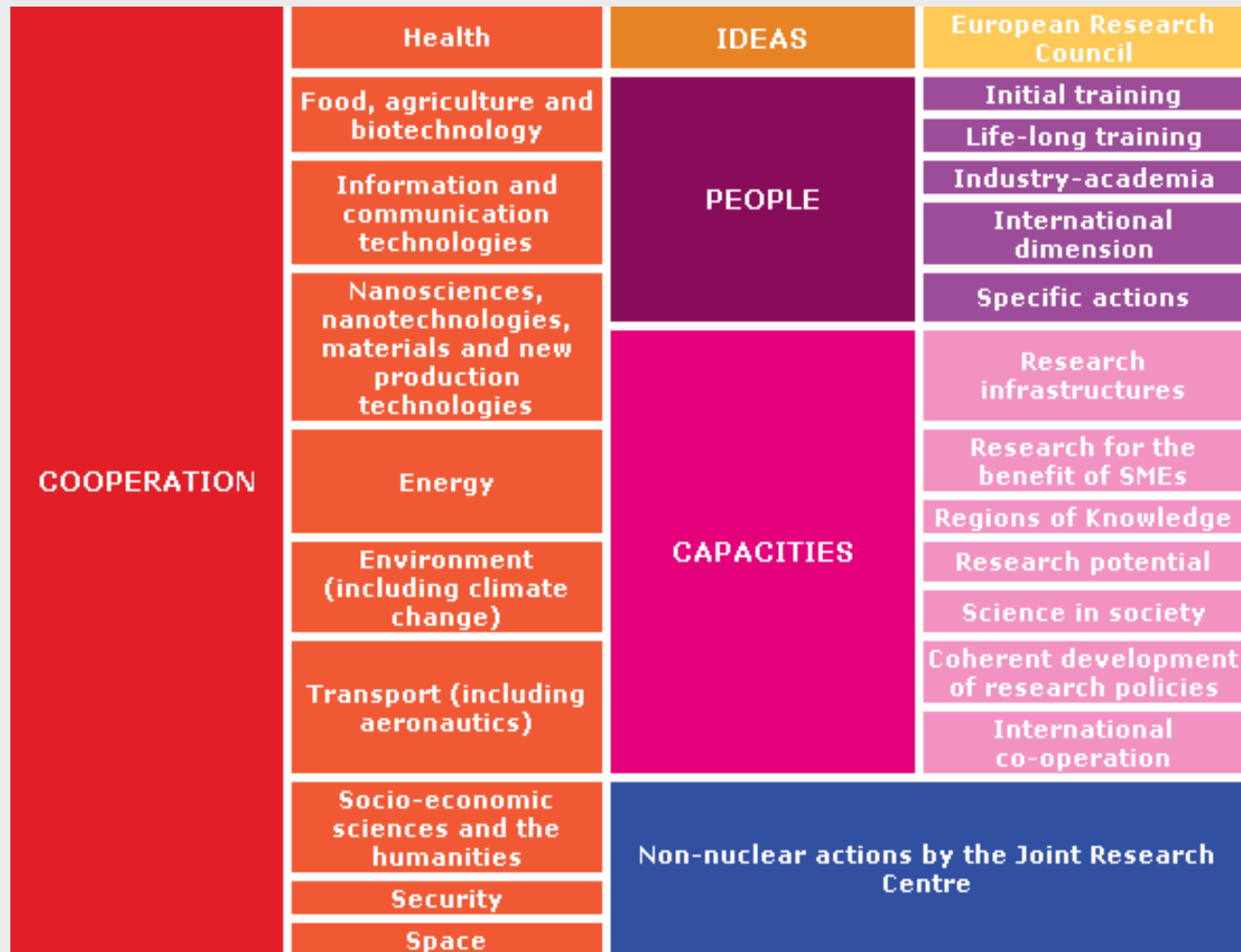
- ▶ Communication
- ▶ European Anti-Fraud Office
- ▶ Eurostat
- ▶ Publications Office
- ▶ Secretariat General

## INTERNAL SERVICES

- ▶ Budget
- ▶ Bureau of European Policy Advisers
- ▶ Informatics
- ▶ European Commission Data Protection Officer
- ▶ Infrastructures and Logistics - Brussels
- ▶ Infrastructures and Logistics - Luxembourg
- ▶ Internal Audit Service
- ▶ Interpretation
- ▶ Legal Service
- ▶ Office For Administration And Payment Of Individual Entitlements
- ▶ Personnel and Administration
- ▶ Translation



# Structure FP7 2007-2013



# FP 7 Budget

- Cooperation EUR 32,413 million
  - Health 6.100 million
  - Food, Agriculture, Fisheries and Biotechnology 1.935 million
  - Information and Communication Technologies 9.050 million
  - Nanosciences, Nanotechnologies, Materials and new Production Technologies 3.475 million
  - Energy 2.350 million
  - Environment (including climate change) 1.890 million
  - Transport (including Aeronautics) 4.160 million
  - Socio-economic Sciences and the Humanities 623 million
  - Security (1.430 million) and Space (1.430 million)
- Ideas EUR 7,510 million
- People EUR 4,750 million
- Capacities EUR 4,097 million
- JRC (non-nuclear) EUR 1,751 million
- Euratom (to 2011) EUR 2,751 million



# Capacities – Research Infrastructures\*

- Support to existing research infrastructures
  - Integrating Activities
    - transnational access
    - joint research
    - networking
  - ICT-based e-infrastructures
- Support to new research infrastructures
  - Design Studies
  - Construction of new infrastructures
- Accompanying Measures
  - Policy development
  - Supporting effective implementation

\*Projects are mostly large scale projects. Subject included in this talk because they are of specific interest to Astronomy



# People Programme - Marie Curie Actions

## Hosts Apply

- Starting Out (ITN)
  - Initial Training Networks
- Research means business (IAPP)
  - Industry-Academia Partnerships and Pathways
- Funds for Funders (COFUND)
  - Co-Funding of Regional, National and International Programmes
- Swapping staff (IRSES)
  - International Staff Exchange Scheme

## Individuals Apply

- Research & Career Development (IEF)
  - Intra-European Fellowships for Career Development
- From the World to Europe (IIF)
  - International Incoming Fellowships
- From Europe to the World (IOF)
  - International Outgoing Fellowships for Career Development
- Back to a job (ERG)
  - European Reintegration Grants
- Back to Europe (IRG)
  - International Reintegration Grants



# People – Marie Curie

- Type of fellowships available in the various programs
  - Early Stage Researchers ( < 4 years experience)
    - Only available in Initial Training Networks and Industry-Academia Partnerships and Pathways
  - Experienced researchers (4-10 years experience)
  - Experienced researchers (>10 years experience)





# Marie Curie Individual fellowships IEF, IIF, IOF, - General Principles

- Focus is on the researcher's career development (exception IIF: transfer of knowledge to European host institution)
- Transnational mobility is required
- Duration 1-2 years
- Open to all disciplines – from Natural Sciences to Social Sciences and Humanities
- Bottom-up – no pre-defined topics or priority areas
- Free choice of host institution from public or private sector
- No age limits – what counts is level of experience
- Provisions for appropriate work/life balance (split stays, maternity/parental leave etc.)



# Marie Curie IEF, IOF, IIF - Budget

CALL	Eligible expenses for the activities carried out <b>by the researcher</b>				
	Monthly Living Allowance (year)	Monthly Mobility Allowance (month)	Travel Allowance (year)	Career Exploratory Allowance	Contribution to the participation expenses of eligible researchers (month)
IEF	53000 (<10 years ) or 79500 (>=10 years)	500 (not married or no children ) or 800 (married or children)	between 250 and 2500 per year depending on distance	2000 (if more than 1 year)	500 (not lab-based) or 800 (lab-based)
IOF	53000 (<10 years ) or 79500 (>=10 years)	500 (not married or no children ) or 800 (married or children)	between 250 and 2500 per year depending on distance	NA	500 (not lab-based) or 800 (lab-based)
IIF	53000 (<10 years ) or 79500 (>=10 years)	500 (not married or no children ) or 800 (married or children)	between 250 and 2500 per year depending on distance	NA	500 (not lab-based) or 800 (lab-based)

CALL	Eligible expenses related to the activities of <b>the host organizations</b>		
	Activities (including audit certification)	Contribution to overheads	Other types of eligible expenses / specific conditions
IEF	Maximum 3 % of the total Community contribution	10 % of direct cost	NA
IOF	Maximum 3 % of the total Community contribution	10 % of direct cost	NA
IIF	Maximum 3 % of the total Community contribution	10 % of direct cost	NA
IIFReturn	NA	NA	fixed amount scheme (15000) per year

Country specific correction coefficients are applied to part of these amounts



# Marie Curie IEF proposal – Evaluation Criteria

S&T Quality (award) Threshold 3, Weighting:25%	Training (award) Threshold 3, Weighting:15%	Researcher (award) Threshold 4, Weighting:25%	Implementation (selection) Weighting:15%	Impact (award) Weighting:20%
Priority in case of ex aequo 3	2	1	5	4
Scientific/technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal	Clarity and quality of the research training objectives for the researcher	Research experience	Quality of infrastructure / facilities and International collaborations of host	Potential of acquiring competencies during the fellowship to improve the prospects of reaching and/or reinforcing a position of professional maturity, diversity and independence, in particular through exposure to complementary skills training
Research methodology	Relevance and quality of additional scientific training as well as of complementary skills offered	Research results including patents, publications, teaching etc., taking into account the level of experience	Practical arrangements for the implementation and management of the scientific project	Contribution to career development, or re-establishment where relevant.
Originality and innovative nature of the project, and relationship to the 'state of the art' of research in the field	Host expertise in training experienced researchers in the field and capacity to provide mentoring/tutoring	Independent thinking and leadership qualities	Feasibility and credibility of the project, including work plan	Contribution to European excellence and European competitiveness
Timeliness and relevance of the project		Match between the fellow's profile and project.	Practical and administrative arrangements, and support for the hosting of the fellow	Benefit of the mobility to the European Research Area.
Host scientific expertise in the field		Potential for reaching a position of professional maturity.		
Quality of the group/supervisors		Potential to acquire new knowledge.		



# Contents of an Marie Curie IEF proposal

## ■ Part A – Administrative Information

- A 1 Information on the proposal (including choice of panel)
- A 2 Information on the Host organisation
- A 3 Information on the Researcher
- A 4 Funding Request

## ■ Part B – The proposal

- B 1 Scientific and Technological Quality (max 8 pages)
- B 2 Training (max 2 pages)
- B 3 Researcher (max 7 pages)
- B 4 Implementation (max 6 pages)
- B 5 Impact (max 2 pages)
- B 6 Ethical Issues



# Marie Curie Calls 2009

	Call Opens	Call Deadline
IRSES International Staff Exchange Scheme	25-11-2008	27-03-2009
RG Reintegration Grants (ERG & IRG schemes)	09-10-2008	02-04-2009
IEF Intra European Fellowships	18-03-2009	18-08-2009
IIF International Incoming Fellowships	18-03-2009	18-08-2009
IOF International Outgoing Fellowships	18-03-2009	18-08-2009
IAPP Industry Academia Partnerships & Pathways	24-04-2009	27-07-2009
RG Reintegration Grants (ERG & IRG schemes)	08-10-2008	08-10-2009
ITN Training networks	Call planned end 2009, deadline in 2010	



# Ideas – European Research Council

## ■ Starting Grant

- Funding: up to € 2.0 M per grant
- Duration: up to 5 years
- Calls for proposals: published annually in summer with deadlines in autumn
- Grants 1<sup>st</sup> round Utrecht
  - Dr. Rembert Duine, Dr Andre Mischke, Dr. Marc Vooijs

## ■ Advanced Grant

- Funding: up to € 3.5 M per grant (normally up to € 2.5 M)
- Duration: up to 5 years
- Calls for proposals: published annually in autumn with deadlines in spring
- Grants 1<sup>st</sup> round Utrecht
  - Prof.dr. Hans Clevers, Prof.dr. Jaap Sinninghe Damsté , Prof.dr. Ben Scheres, Prof.dr. Piet Gros, Prof.dr. Marco van Leeuwen



# ERC Starting Grant

## Profile of the PI

- Any nationality or age
- Any current place of work – but: working or moving to work in Europe (EU member state, FP7 Associated Country)
- 3-8 years of experience after PhD - certain types of career breaks are accepted up to a maximum of 2 years (read the Guide for Applicants ! )
- Potential for research independence and evidence of maturity
  - at least one important publication without participation of PhD supervisor
- Track-record of early research achievements appropriate to their research field and career stage → Starters vs Consolidators
- First StG call (300 grants, 21 host countries, 32 nationalities, 170 host institutes)
  - Average Age: 35 years (spans from 24, 28 to 44y)
  - Average experience: 6-7 years
  - Average grant size: average 1M€
  - Gender: 26% women (as low as 12% in LS2 up to 71% in SH4)



# Contents of an ERC proposal

- Administrative Information
  - A 1 Summary (Including choice of panel)
  - A 1 The Track Record of the Principal Investigator
  - A 2 Information about the PI's Host Institution
  - A 3 Budget
- Part B 1
  - 1a The Principal Investigator
    - Scientific Leadership Profile (Max 2 pages)
    - Curriculum Vitae (Max 2 pages)
    - Early Achievement-Track-Record (Max 2 pages)
  - 1b Extended synopsis of the project proposal (Max 5 pages)
- Part B 2
  - Section 2: The project Proposal (Max 15 pages)
    - State-of-the-Art and objectives
    - Methodology
    - Resources
    - Ethical issues
  - Section 3: Research Environment (Max 2 pages)
    - PI's Host institution
    - Additional institutions





## Success rates

Call 2007	Number of applications	Grants	Success percentage
ERC Starting Grant	9167	Approx 300	3.3 %
ERC Advanced Grant	2167	Approx 275	12,7 %
MC Initial Training Networks	905	68	7.5 %
IEF Intra European Fellowships	1701	423	25.3 %
IIF International Incoming Fellowships	571	133	23.6 %
IOF International Outgoing Fellowships	341	100	30.0 %



# Comparison Dutch and EU investigator-driven schemes

NWO / KNAW	EU
Toptalent / Mozaïek	Marie Curie Early Stage researchers
Rubicon	
VENI	Marie Curie Experienced Researcher (4-10 years experience )
VIDI	Marie Curie Experienced Researcher (> 10 years experience)
	ERC Starting Independent Researcher Grant
VICI	
Spinoza / KNAW Akademiehoogleraar	ERC Advanced Investigators Grant



# NWO “Vernieuwingsimpuls”

	Max budget per proposal	Deadlines 2009	Constraints
<b>VENI</b>	250 K € 3-year project	January 8, 2009	Up to 3 years after date of PhD
<b>VIDI</b>	800 K € 5-year project	March 3, 2009	From 3 up to 8 years after date of PhD
<b>VICI</b>	1.500 K € 5-year project	March 31, 2009 for preproposal	From 8 up to 15 years after date of PhD



# Links

- EU FP7
  - [http://cordis.europa.eu/fp7/home\\_en.html](http://cordis.europa.eu/fp7/home_en.html)
- EU People Marie Curie
  - <http://ec.europa.eu/research/mariecurieactions/>
- EU European Research Council
  - <http://erc.europa.eu/>
- NWO “Vernieuwingsimpuls”
  - [http://www.nwo.nl/nwohome.nsf/pages/NWOP\\_5TTCVA](http://www.nwo.nl/nwohome.nsf/pages/NWOP_5TTCVA)

