



# GLOBAL IQ

IMPACT QUANTIFICATION OF GLOBAL CHANGES

## Presentation



EUROPEAN COMMISSION  
European Research Area



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*This research project has received funding from the European Union's Seventh Framework Programme (FP7/2007-2013) under the grant agreement n° 266992 (Global IQ)*

# 0- Background

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World societies experience today large transformation processes both in the social, economic and environmental dimensions. These transformations are usually described under the heading of 'global change', to emphasize the increasing interactions between them.

Global changes studies should not confine themselves to climate change as the unique globalization challenge faced by humanity.

Social scientists have more generally to assess the consequences of global changes upon our societies as a whole while contributing to policy action both to mitigate the impacts of climate change and identify the most relevant adaptation strategies in the environmental domain.



# 1- Project in brief

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<b>Project Type</b>	Collaborative project (small or medium size)
<b>Funding scheme</b>	7th Framework Programme – Socio-economic Science and Humanities (SSH) – FP7-SSH-2010-2.1-3 (Analysis of the Impacts of global changes)
<b>Start – End date</b>	01/08/2011 – 31/07/2014
<b>Coordinator</b>	Fondation Jean-Jacques Laffont / TSE, France <a href="http://www.tse-fr.eu">www.tse-fr.eu</a> Scientific Coordinator: Jean-Pierre Amigues Project Manager: Céline Claustre
<b>Grant Agreement n°</b>	266992
<b>EU Contribution</b>	2 698 155 €
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# 2- Aims and Objectives

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- to provide significant advances in the estimation of socio-economic impacts of global challenges – at Global, European and regional scale;
- to identify optimal adaptation strategies;
- to evaluate total costs and the optimal mix of adaptation and mitigation against global changes.



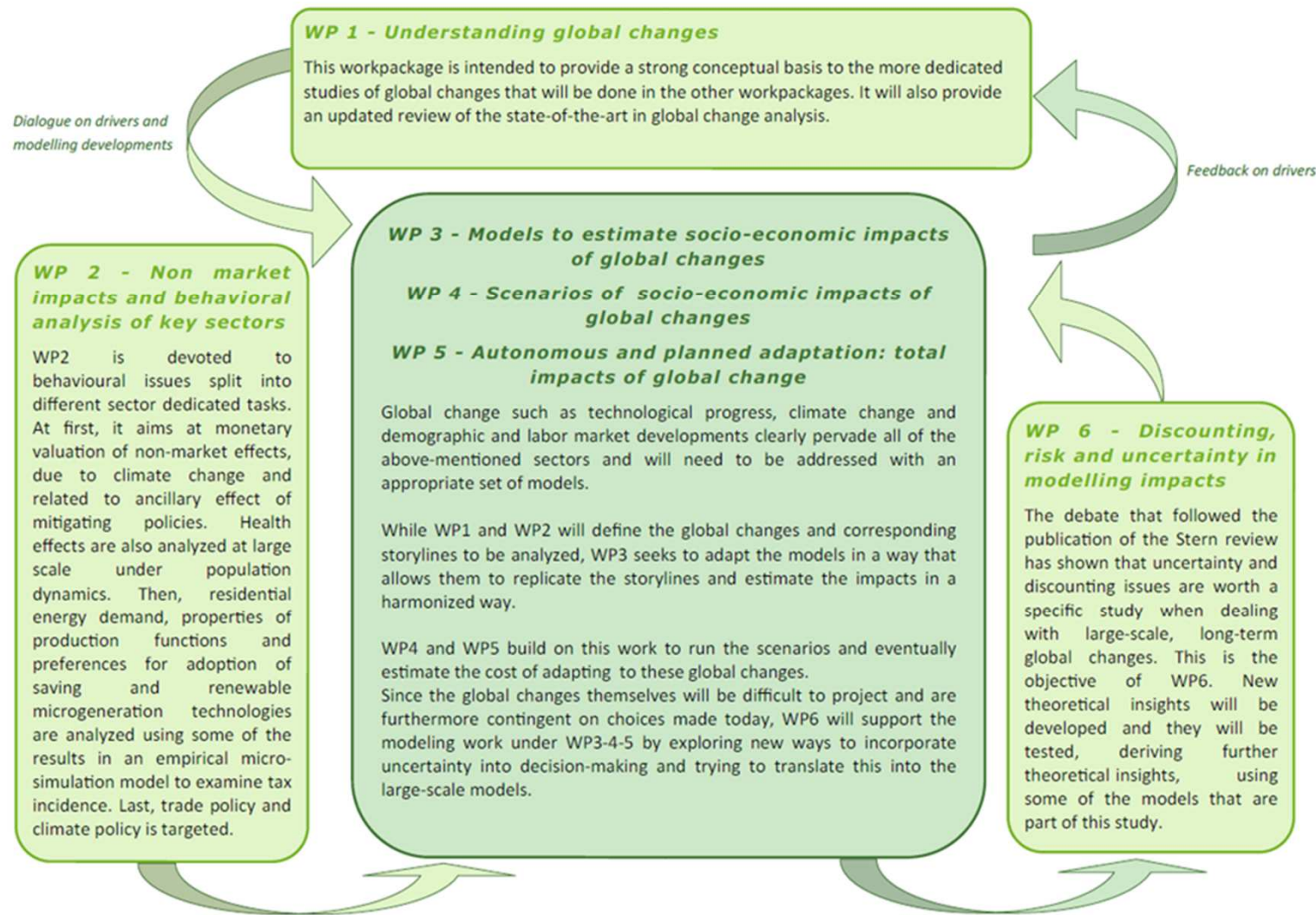
# 3- Key features

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- Economics oriented
- Quantitative oriented (modeling approach)
- Integration oriented
- Mix of applied and conceptual research
- Cross-Competencies building
- Prospective and dynamics oriented
- Policy advice capacity building

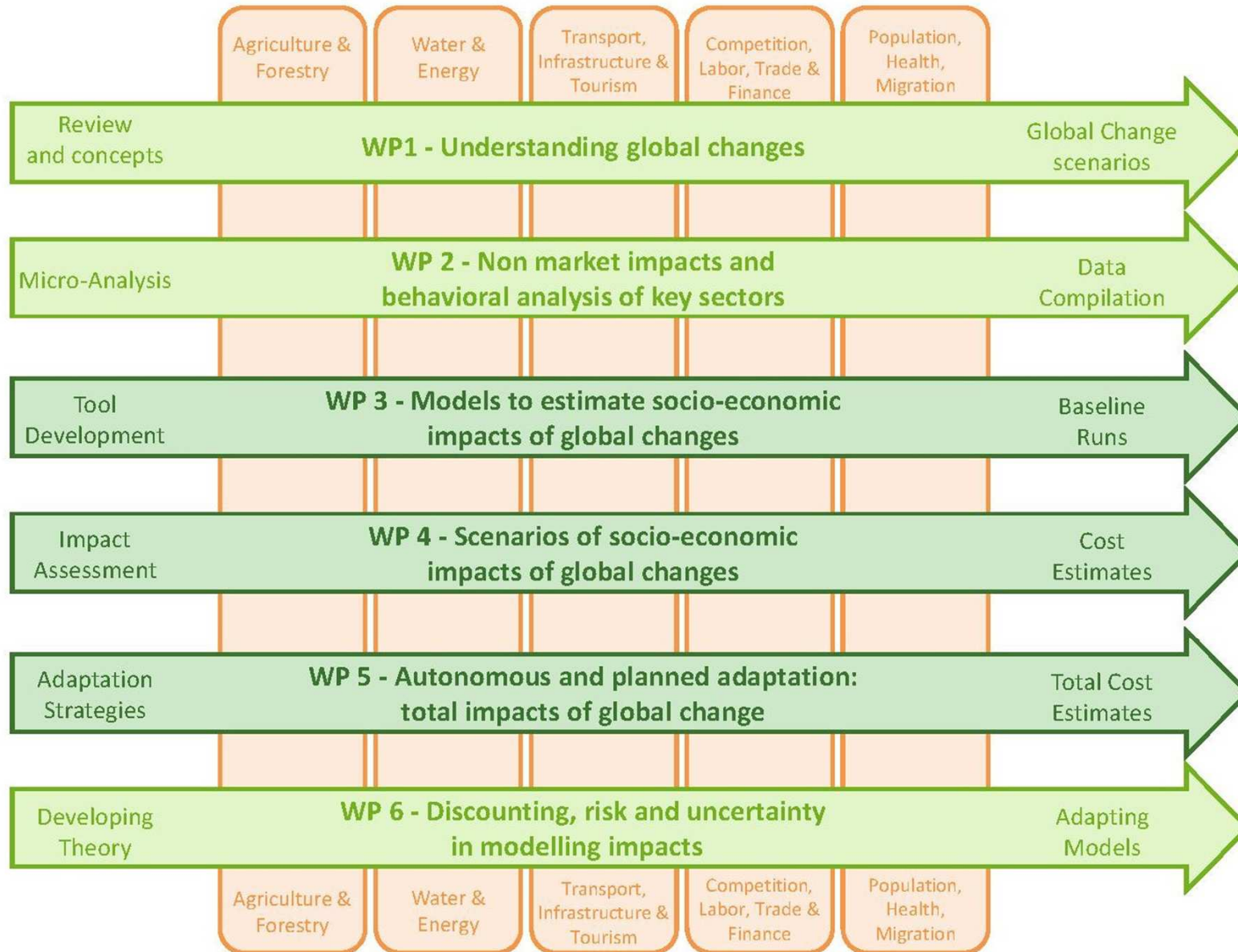


# 4- Project structure





# 5- Project structure



# 6- Project activities (WP 1, 2 & 6)

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- New conceptual advances (WP 1, 2, 6)
- New value estimates (WP2)
- Meta analysis
- Case studies
- More policies options (adaptation) and scenarios





# 7- Focus on modelling (WP3, 4 & 5)

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## Bottom-up modeling approaches:

- Sectoral entries
- Supply-side and demand-side
- Integration of natural processes and dynamics
- Spatial and regional disaggregation



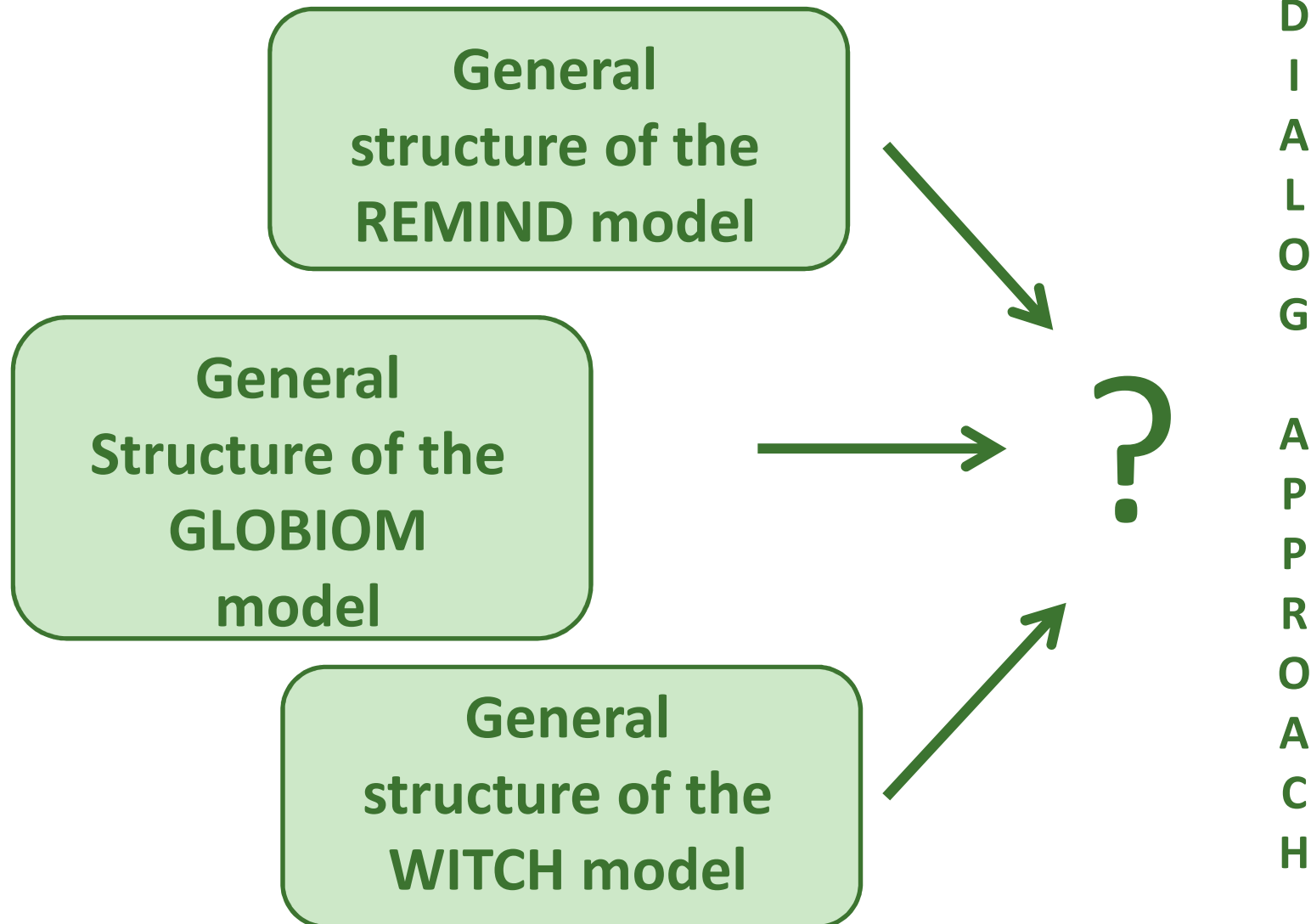
## Top-down modeling approaches:

- General equilibrium approaches
- Main drivers of global change
- Integration of economic processes at different scales



# 8- Focus on modelling (WP3, 4 & 5)

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# 9- Key Deliverables

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- D 1.1 Conceptual issues and review of global change assessment and analysis to identify optimal adaptation strategies
- D 2.1 Analysis of key determinants of costs and benefits of mitigation policy
- D 2.2 Estimation of energy demand and demand for environmental quality at household level
- D 2.3 Analysis of key factors that affect European competitiveness
- D 3.1 Report on models development and results of sensitivity analysis
- D 4.1 The socio-economic costs of global challenges, without adaptation
- D 5.1 Optimal adaptation and mitigation scenarios to global challenges
- D 6.1 Managing the uncertainties associated to global challenges



# 10- Dissemination

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- All the results produced by Global-IQ will be posted and publicly available on the website: [www.global-iq.eu](http://www.global-iq.eu)
- Annual E-newsletter send to sent to scientific organisations and interested parties/stakeholders/policy makers
- Working papers
- Policy Briefs & Recommendations
- Publication in scientific and policy journals
- Presentation of the results during international conferences



# 11- Timeline

	2011					2012						2013						2014																	
	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	jun	jul	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	jun	jul	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	jun
WP 1 - Understanding global changes																																			
WP2 - Non market impacts and behavioral analysis of key sectors																																			
WP 3 - Models to estimate socio-economic impacts of global changes																																			
WP 4 - Scenarios of socio-economic impacts of global changes																																			
WP 5 - Autonomous and planned adaptation: total impacts of global change																																			
WP 6 - Discounting, risk and uncertainty in modelling impacts																																			
WP 7 - Dissemination																																			
WP 8 - Management																																			

 Milestones

 Deliverables



# 12- Project partners

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**Fondation Jean-Jacques Laffont / TSE (France) - Coordinator** [www.tse-fr.eu](http://www.tse-fr.eu)



**Fondazione Eni Enrico Mattei (Italy)** [www.feem.it](http://www.feem.it)



**Internationales Institut für Angewandte Systemanalyse (Austria)** [www.iiasa.ac.at](http://www.iiasa.ac.at)



**Potsdam-Institut für Klimafolgenforschung (Germany)** [www.pik-potsdam.de](http://www.pik-potsdam.de)



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THE LONDON SCHOOL  
OF ECONOMICS AND  
POLITICAL SCIENCE

**London School of Economic (United Kingdom)** [www.lse.ac.uk](http://www.lse.ac.uk)



**Graduate Institute of International Studies in Geneva (Switzerland)** [www.graduateinstitute.ch](http://www.graduateinstitute.ch)



**The Vienna Institute for International Economic Studies (Austria)** [www.wiiw.ac.at](http://www.wiiw.ac.at)



**Centre for Economic Policy Research (United Kingdom)** [www.cepr.org](http://www.cepr.org)







# GLOBAL IQ

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## Thank you !

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