The SuperGreen project

a project led by the
National Technical University of Athens
(NTUA)

Asst. Prof. Dimitrios V. Lyridis

Intelligent ICT and Green Logistics
4 - 5 NOVEMBER 2010
BREMEN, GERMANY

7th Framework Programme

- Theme title: Transport (including Aeronautics)
- Type of project: Coordination and Support Action
- Project full title: Supporting EU's Freight Transport Logistics Action Plan on Green Corridors Issues
- Project acronym: SuperGreen

Background

Freight Transport Logistics Action Plan (2007)

- Green transport corridors for freight.
- Green Corridors should in all ways be environmentally friendly, safe and efficient.
- Emissions, internal as well as external costs should be considered.

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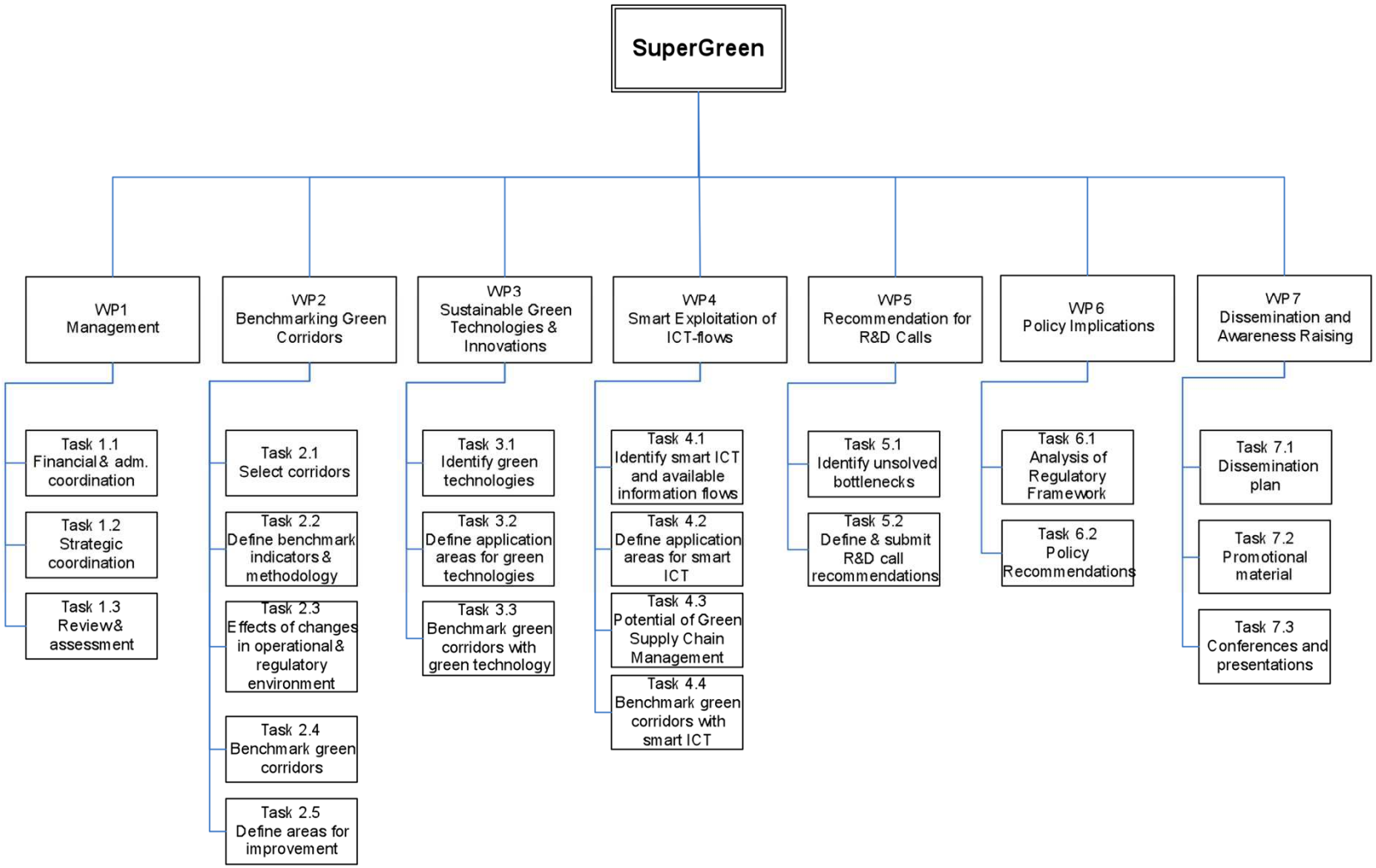
Objectives

- *Provide* ***support and recommendations*** on Green Corridors to EU's Freight Transport Logistics Action Plan.
- ***Encourage co-modality*** for sustainable solutions.
- ***Benchmark*** Green Corridors based on selected KPIs covering all aspects related to transport operations and infrastructure .
- Conduct a programme of ***networking activities between stakeholders*** to facilitate information exchange, dissemination of research results and communication of best practises and technologies.

Objectives, contd.

- *Deliver **studies*** addressing topics important for the further development of Green Corridors.
- *Deliver **policy recommendations*** at a European level for the further development of Green Corridors.
- Provide ***recommendations concerning new calls for R&D*** proposals to support development of Green Corridors (eliminate bottlenecks).

Work package structure



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SuperGreen stakeholders

- transport operators
- terminal operators including ports
- infrastructure operators
- cargo owners (shippers)
- industry/consultants
- non Governmental Organisations (NGOs)
- environmental organisations
- authorities responsible for social and spatial planning
- R&D organisations and universities

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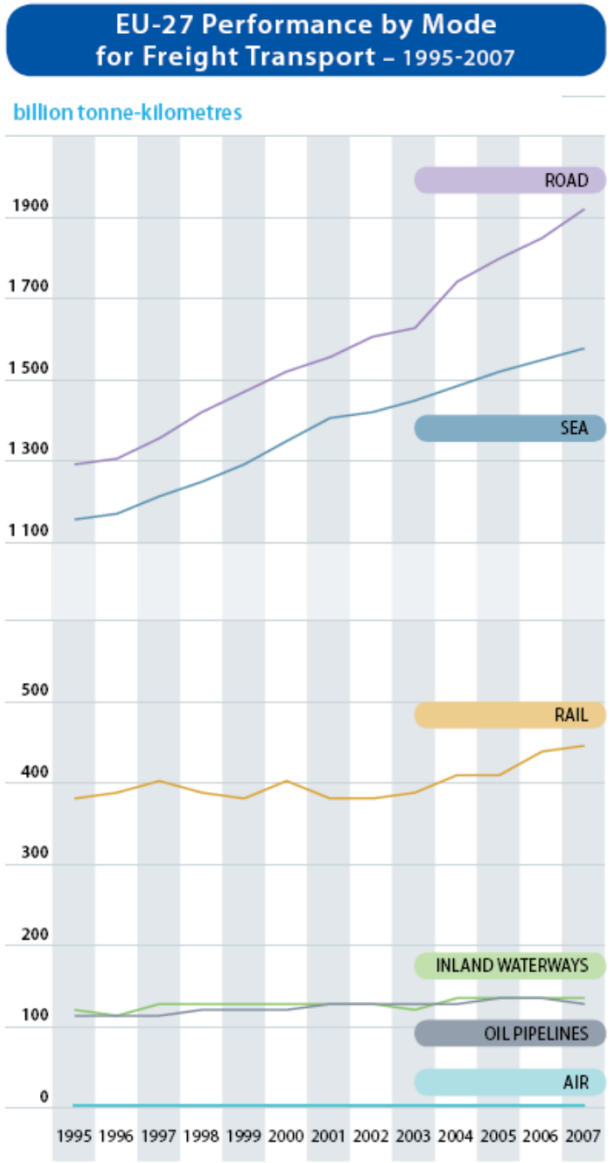
Modes covered

- **ALL SURFACE MODES**
  - Road
  - Rail
  - Sea
  - Inland Navigation



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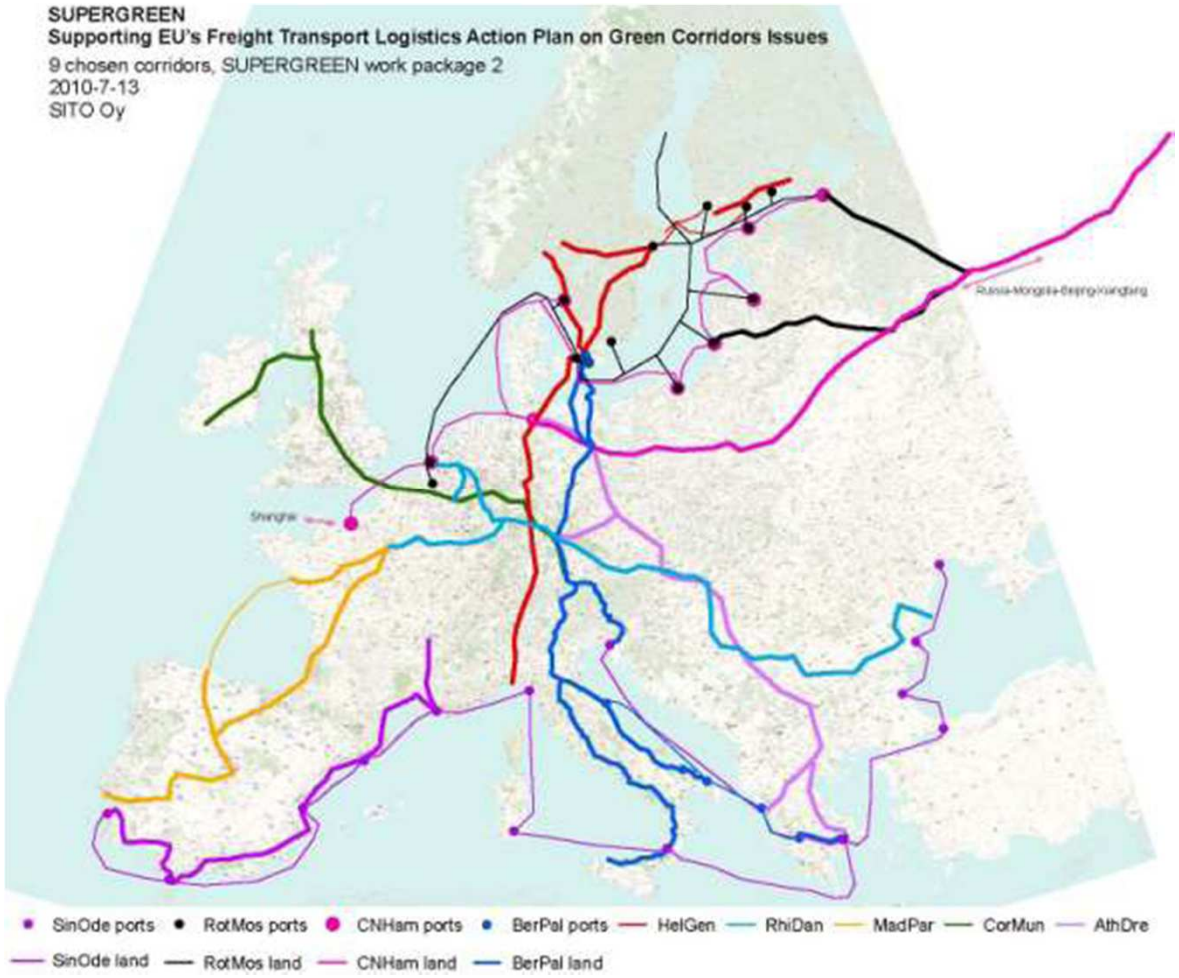
SuperGreen Corridors



SuperGreen Corridors

BRIEF DESCRIPTION- BRANCHES	NICKNAME
Malmö-Trelleborg-Rostock/Sassnitz- Berlin-Munich-Salzburg-Verona-Bologna-Naples-Messina-Palermo Branch A: Salzburg-Villach-Trieste (Tauern axis) Branch B: Bologna-Ancona/Bari/Brindisi-Igoumenitsa/Patras-Athens	**Brenner**
Madrid-Gijon-Saint Nazaire-Paris Branch A: Madrid-Lisboa	**Finis Terrae**
Cork-Dublin-Belfast-Stranraer Branch A: Munich-Friedewald-Nuneaton Branch B: West Coast Main line	**Cloverleaf**
Helsinki-Turku-Stockholm-Oslo-Göteborg-Malmö-Copenhagen (Nordic triangle including the Oresund fixed link)- Fehmarnbelt - Milan - Genoa	**Edelweiss**
Motorway of Baltic sea Branch: St. Petersburg-Moscow-Minsk-Klapeida	**Nureyeev**
Rhine/Meuse-Main-Danube inland waterway axis Branch A: Betuwe line Branch B: Frankfurt-Paris	**Strauss**
Igoumenitsa/Patras-Athens-Sofia-Budapest-Vienna- Prague-Nurnberg/Dresden-Hamburg	**Two Seas**
Odessa-Constanta-Bourgas-Istanbul-Piraeus-Gioia Tauro-Cagliari-La Spezia-Marseille-Barcelona-Valencia-Sines Branch A: Algeciras-Valencia-Barcelona-Marseille-Lyon Branch B: Piraeus-Trieste	**Mare Nostrum**
Shanghai-Le Havre/Rotterdam-Hamburg/Göteborg-Gdansk-Baltic ports-Russia Branch:Xiangtang-Beijing-Mongolia-Russia-Belarus-Poland-Hamburg	**Silk Way**

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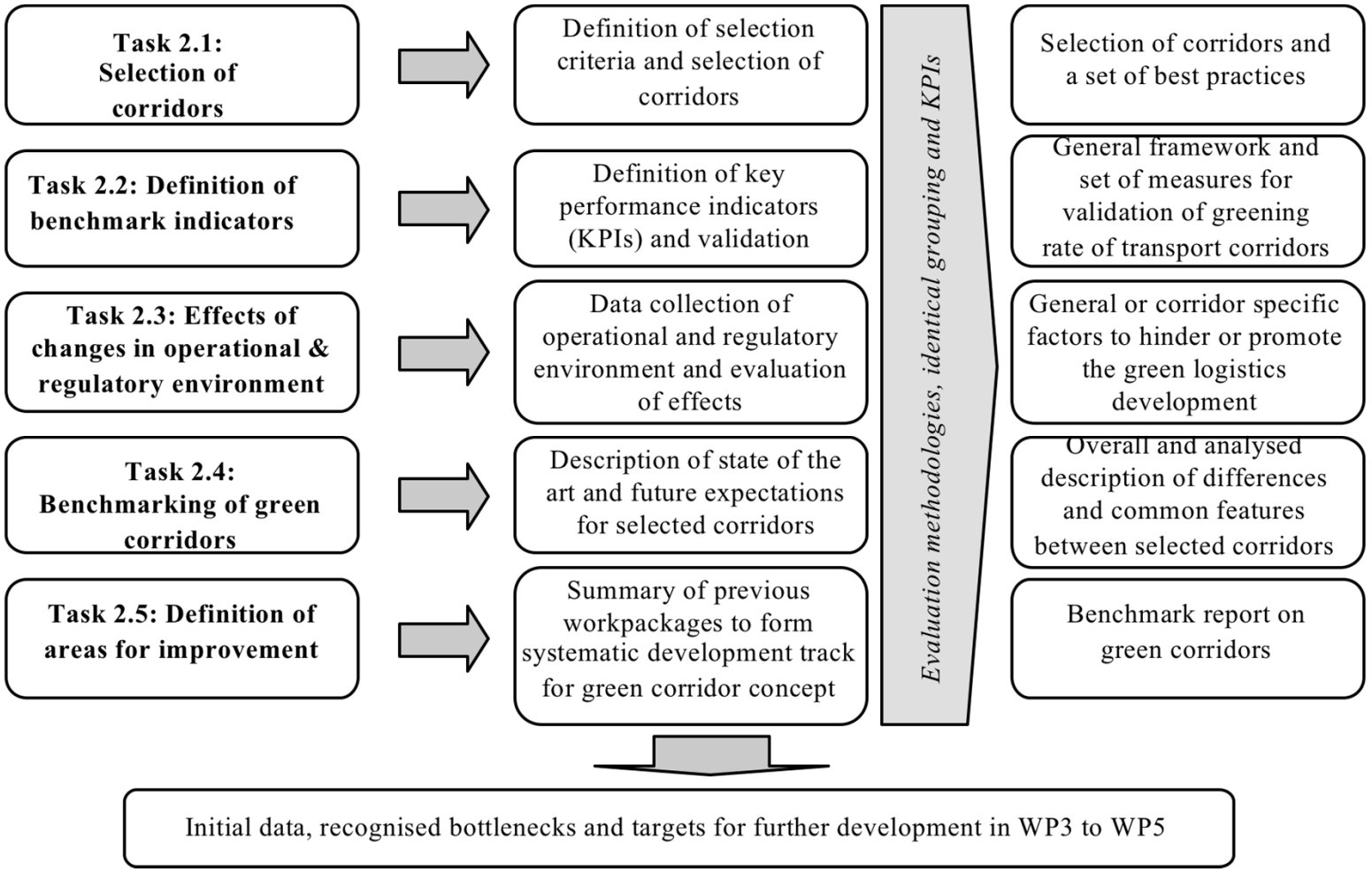
WP2: benchmarking green corridors



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KPI areas

- Efficiency
- Service quality
- Environmental sustainability
- Infrastructural sufficiency
- Social issues

Efficiency KPIs

- Absolute costs (€/tonne)
- Relative costs (€/tkm)

Service quality KPIs

- Transport time
- Reliability
- Frequency of service
- ICT applications
- Cargo security
- Cargo safety

Environmental sustainability KPIs

- CO_2-eq
- SO_X
- NO_X
- $PM_{2.5}$

Infrastructural sufficiency KPIs

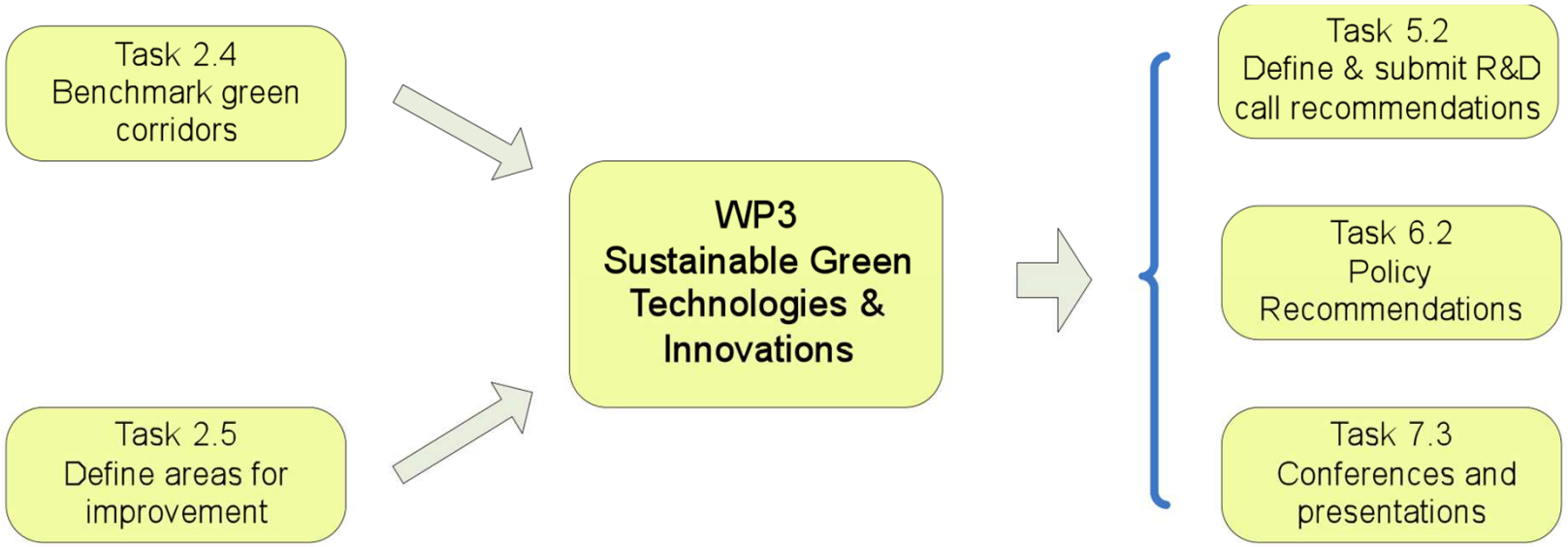
- Congestion
- Bottlenecks

Social issues KPIs

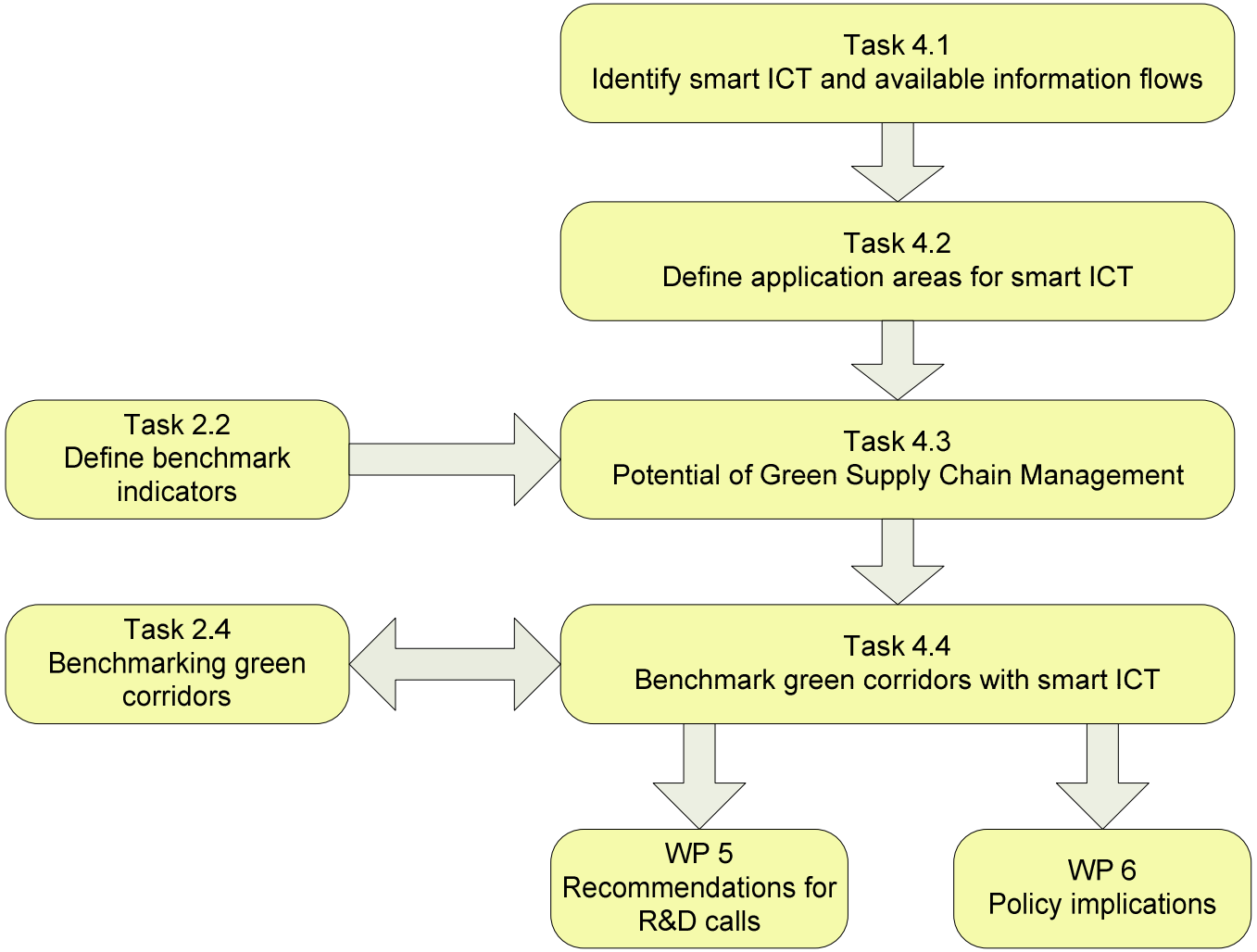
- Land use
- Traffic safety
- Noise

WP3: Sustainable green technologies and innovations

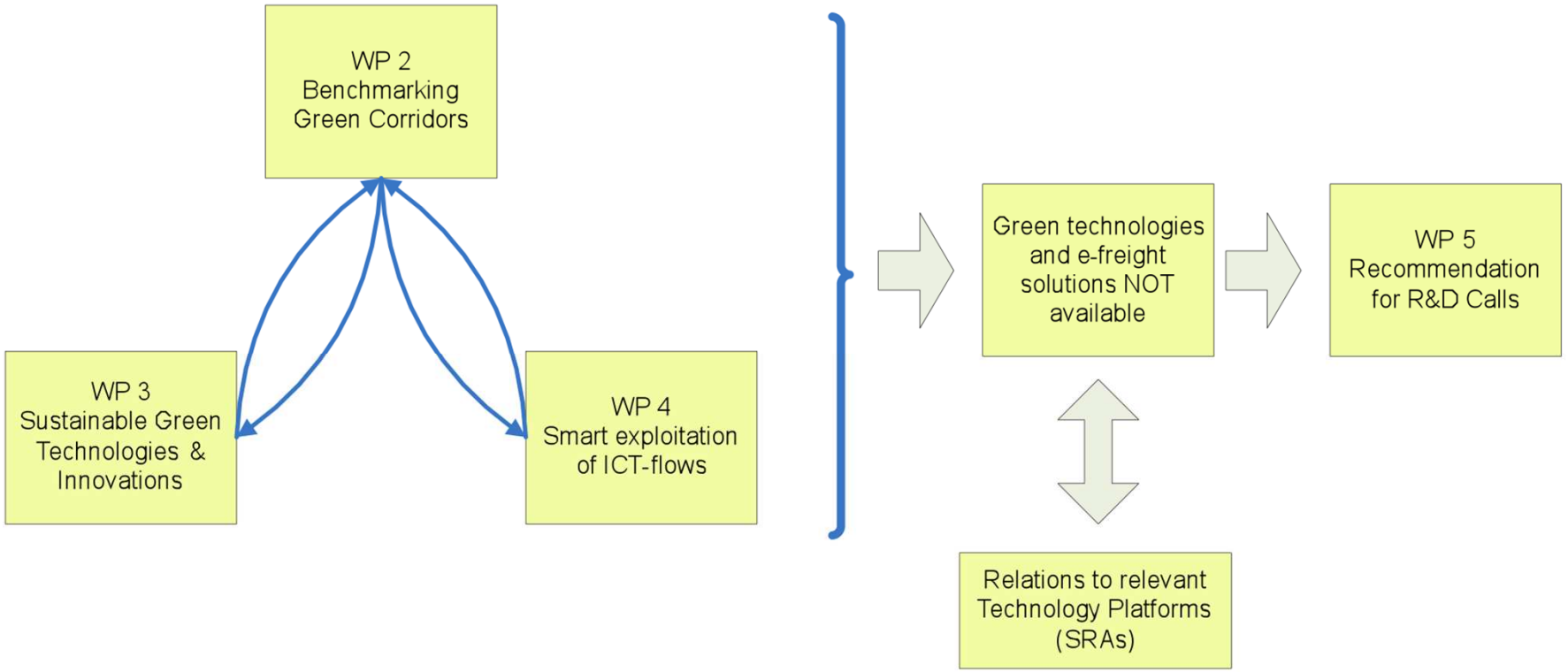
SUPERGREEN - Technologies Collection



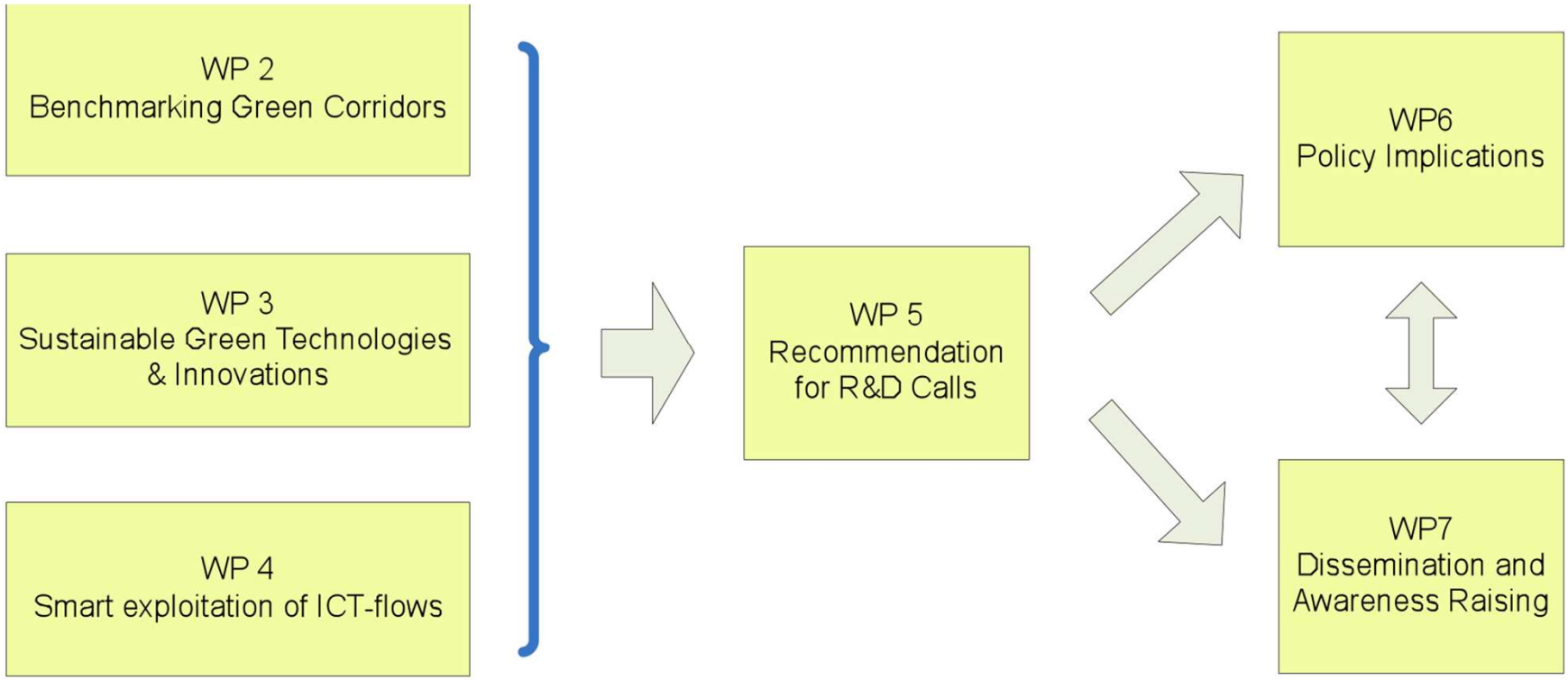
WP4: Smart exploitation of ICT flows



WP5: recommendation for R&D calls



WP6: Policy implications



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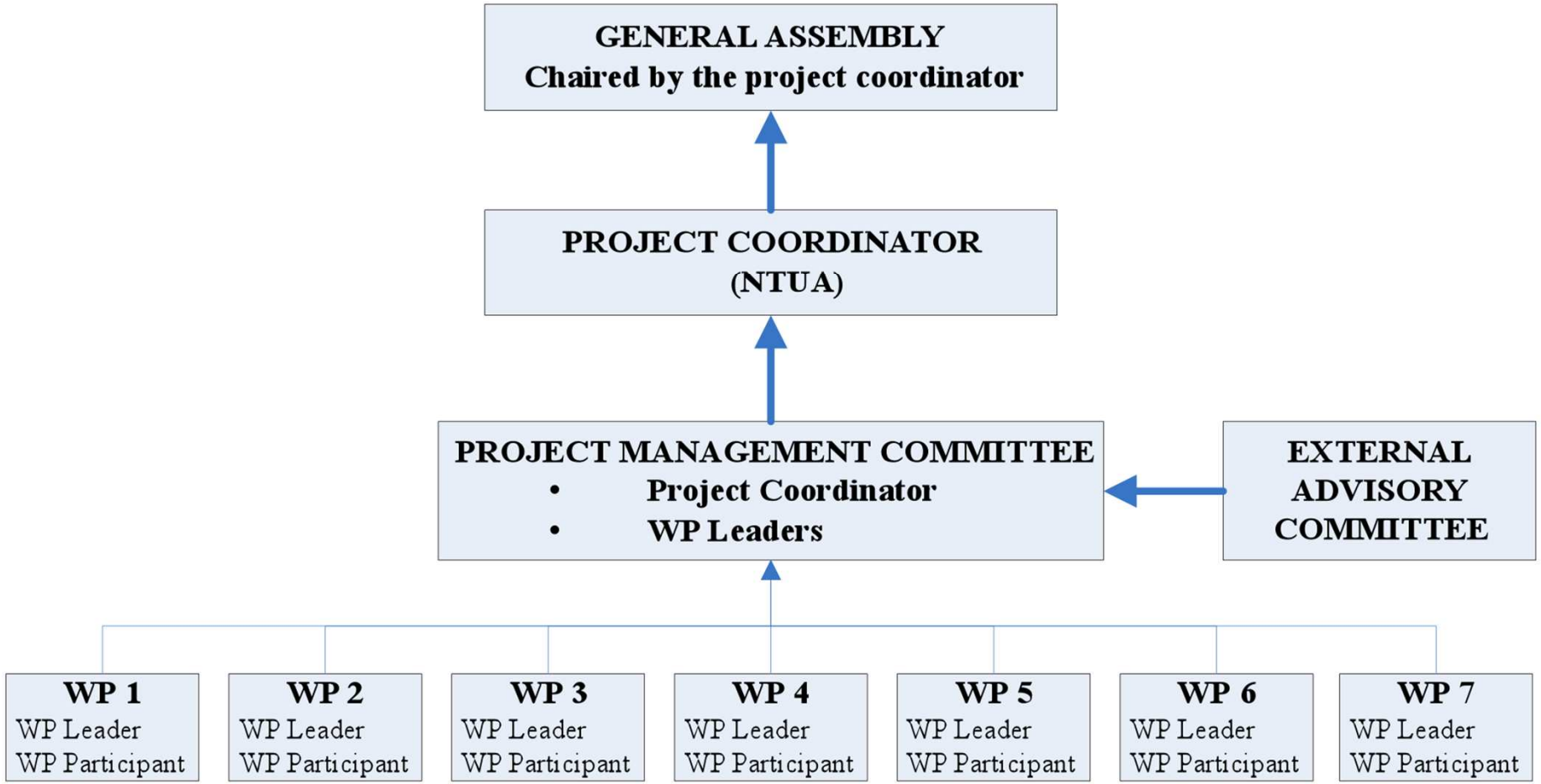
WP7: dissemination & awareness raising

- Dissemination plan
- Promotional material
  - Newsletter
  - Web site
- Conferences and presentations
  - 3 major workshops, 4 technical

The consortium

1 (Coordinator)	National Technical University of Athens	NTUA	Greece
2	Norsk Marinteknisk Forskningsinstitutt AS, MARINTEK	MAR	Norway
3	Sito Ltd (Finnish Consulting Engineers Ltd)	SITO	Finland
4	D'Appolonia S.p.A.	DAPP	Italy
5	Autoridad Portuaria de Gijon Gijón Port Authority-	PAG	Spain
6	DNV Det norske Veritas	DNV	Norway
7	via donau Österreichische Wasserstraßen-Gesellschaft mbH	VIA	Austria
8	NewRail - Newcastle University	UNEW	UK
9	CONSULTRANS	CONS	Spain
10	PSA Sines	PSAS	Portugal
11	Finnish Maritime Administration	FMA	Finland
12	Straightway Finland Ry	SWAY	Finland
13	SNCF Fret Italia	SFI	Italy
14	Procter & Gamble Eurocor	PG	Belgium
15	VR Group	VRG	Finland
16	Lloyd's Register-Fairplay Research	LRFR	Sweden
17	Hellenic Shortsea Shipowners Association	HSSA	Greece
18	Dortmund University of Technology	DUT	Germany
19	TES Consult Ltd	TES	Ukraine
20	Turkish State Railways	TCDD	Turkey
21	DB Schenker AG	SCH	Germany
22	The Bellona Foundation	BEL	Norway

Organizational structure



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Advisory Committee

- Unique feature of the SuperGreen project
- Purpose: provide independent advice and feedback on key issues related to the progress of the project, and to validate its main results.
- Will ensure key stakeholder input into the project.
- Will be invited to participate in selected meetings and workshops.

Stakeholder input

- Industry participation in stakeholder workshops
  - 1st: Helsinki, June 28, 2010
  - Regional workshops: spring 2011
  - 2 more plenary workshops (thru 2013)
- Membership to the Advisory Committee
- Link with other projects and related activities

Duration & budget

- Official start: 15 Jan. 2010
- Duration: 3 years
- Total budget: 3,453,747 EUR
- EC contribution: 2,634,698 EUR

THANK YOU

- www.supergreenproject.eu