

SMILE - Smart Green Innovative urban Logistics for Energy efficient mediterranean cities

Overview of the SMILE Project

Motivation

- Urban areas consume up to 70% of the energy produced
- Transport is a leading sector consuming non renewable energy and producing the biggest amount of greenhouse gas (GHG) emissions in cities (30% of total emissions)

In this context, Urban freight distribution requires for **innovative solutions**



These should be able to:

- Rationalize and improve the efficiency of transport
- Promote the use of innovative renewable energy



thus

Reducing energy consumption & associated greenhouse gas (GHG) emissions



while

Promoting economic development

Basic Data

In the framework of the MED Programme (2017-2013)

Approval:

13th December 2012 Marseille

Official notification:

19th March 2013 (official letter)

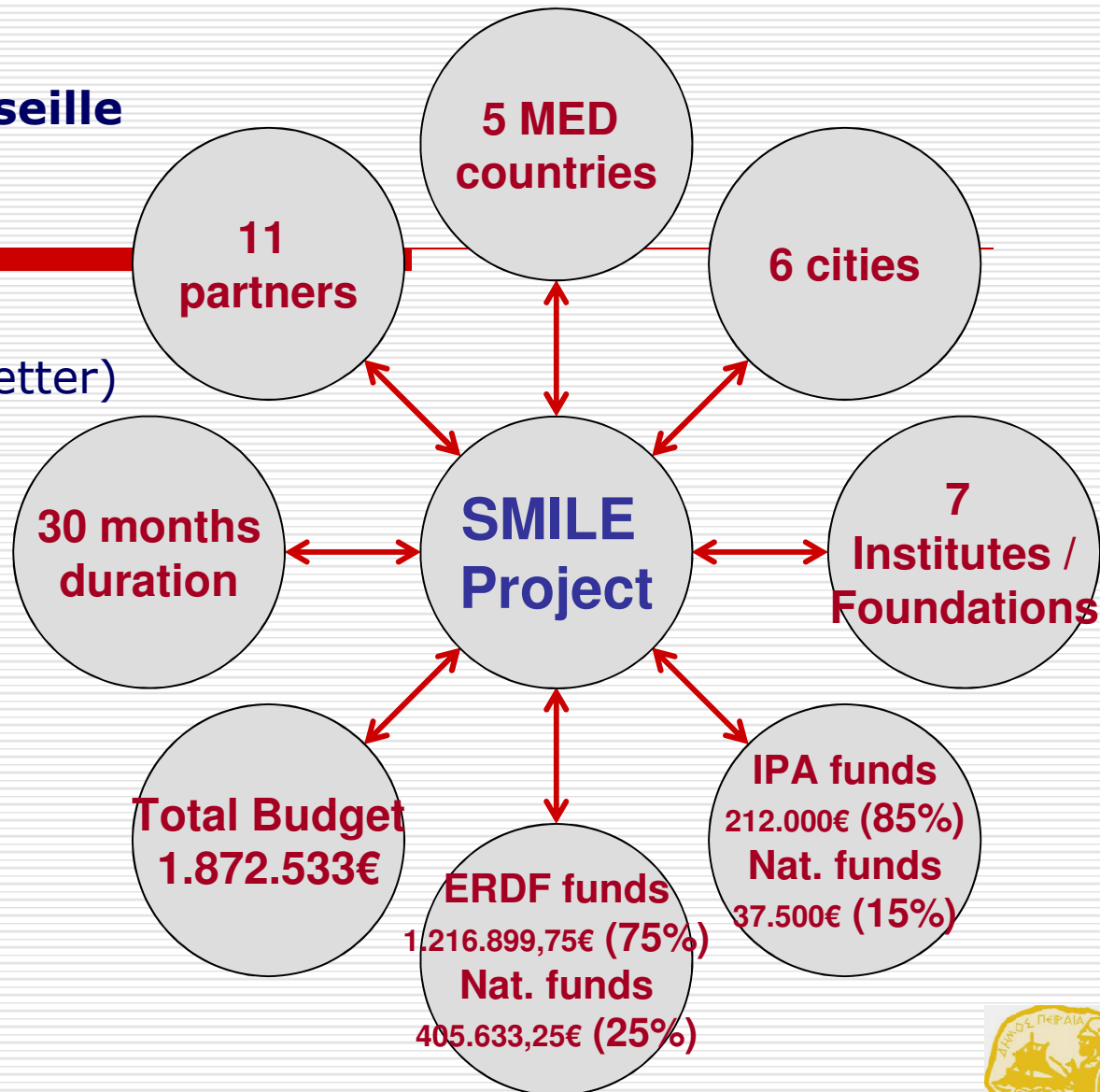
18th March 2013 (e-mail)

Full AF issued

on 12/4/2012, Piraeus

End Date

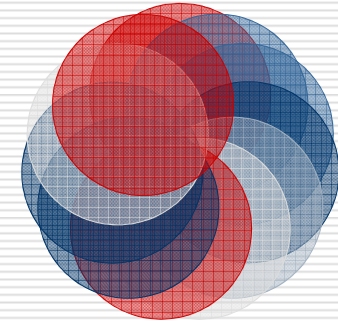
30th June 2015



The Consortium

4 city authorities:

Mobility Department of Barcelona city Council
Municipality of Montpellier
City of Rijeka
Municipality of Piraeus



7 specialised Institutes / Foundations:

**Centre for Research and Technology Hellas /
Hellenic Institute of Transport (GREECE)**

**The Valenciaport Foundation for Research,
Promotion and Commercial Studies of the
Valencian region (SPAIN)**

**Institute for Transport and Logistics
Foundation (ITALY)**

**Foundation of the Valencian Community for
Strategical Promotion, Development and
Urban Innovation (SPAIN)**

**Center for Innovation in Transport
(CENIT) / Technical University of
Catalonia (UPC) (SPAIN)**

**AFT - Délégation Régionale
Languedoc Roussillon (FRANCE)**

**Regional Energy Agency
Kvarner (CROATIA)**

7 Non Partner Structures support SMILE Project

**1. Municipality of Valencia,
Local Authority (Spain)**

**2. DHL Exel Supply Chain Spain,
other (Spain)**

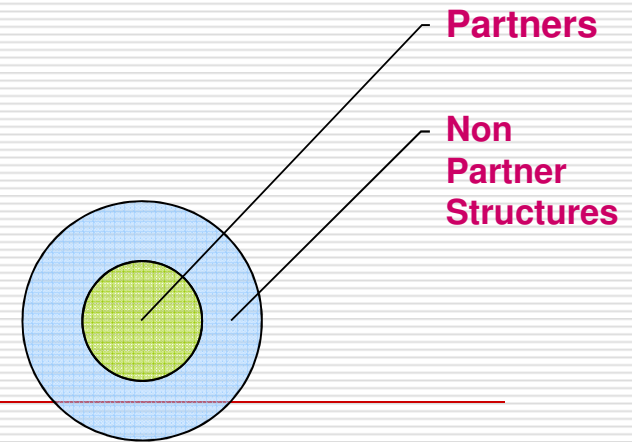
**3. KLOK Kooperationszentrum Logistik e.V. ,
Regional Development Agency (Germany)**

4. IFSTTAR, Technological and scientific research center (France)

5. Emilia-Romagna Region, Regional Authority (Italy)

**6. University of Westminster, University or institute of applied
sciences (UK)**

7. AVELE, Technological and scientific research Center (Spain)



Theme of the Project (1/2)

Development & Implementation of innovative strategies, plans and measures on energy efficient mobility solutions for smart MED cities

By Utilising:

Available technologies
Previous experiences
On going initiatives

Taking into account

Technical issues
Cost issues
other related issues

Theme of the Project (2/2)

In this framework the Project will:

Define
Plan
Test
Share
& Promote

Public policies
Strategies &
Measures
for intelligent
urban freight
solutions

Aim & key objective (1/2)

**To improve the energy efficiency of
Mediterranean cities by providing intelligent
and sustainable mobility solutions**

-
- Improving public & private actors knowledge in the topic
 - Promoting innovative 'green' & cost effective solutions for the topic
 - Addressing the target of green and smart urban development

while at the same time

Imposing a direct energy saving impact to the cities

Aim & key objective (1/2)

In more details, Project's contribution to the development of smart and energy-efficient Mediterranean cities, will be promoted by:

-
- Increasing the awareness of the strong impact that urban logistics may have on the energy efficiency of cities
 - Improving the knowledge of successfully proven energy-efficient urban logistics solutions
 - Supporting public policies, strategies and plans on energy-efficient urban logistics issues
 - Reducing energy consumption related to logistics and transport
 - Reducing transport greenhouse gas (GHG) emissions
 - Minimizing congestion and other disruptions caused by the urban freight distribution activity

Geographical area

5 different Mediterranean countries: Spain, France, Italy, Croatia and Greece

Special focus on 6 MED cities: Barcelona, Valencia, Montpellier, Bologna, Rijeka and Piraeus

SMILE Project brings together:

3 large sized cities



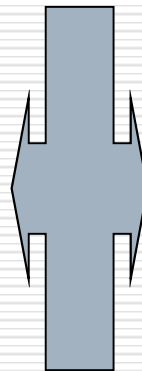
Bologna

Valencia

Barcelona

(exceeds 4M inhabitants)

} (around 1M inhabitants)



3 medium sized cities



Montpellier

(around 225.000 inhabitants)

Rijeka

(around 140.000 inhabitants)

Piraeus

(around 170.000 inhabitants)

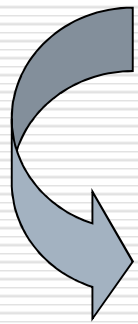
Geographical area

SMILE cities **encompass a broad spectrum** of issues, challenges, opportunities, market needs and infrastructure conditions.

At the same time they **share common goals** for the development of cost-effective and energy-efficient urban logistics activities.

Of course there are **distinct differences** between them

But they also share **specific common characteristics** which will be carefully considered:



- **The existence of 'complex' historic city centers**
- **4 of the participating cities are actually port-cities**
(Piraeus, Barcelona, Valencia and Rijeka)

Project structure

SMILE Projects consists of:

5 work packages, coordinated by one partner (WP0 was preparation actions)

Each WP includes **(usually 3 or 4) distinct phases, also coordinated by one partner**

Each phase has **a specific duration, specific deliverables & accepts input by all partners**

WP.1: Administrative and financial management of the project / coordination of the partnership (4 phases-10 deliverables) **CPartner:** Municipality of Piraeus

WP.2: Information, awareness raising and capitalisation (4 phases-20 deliverables) **CPartner:**AFT-Délégation Régionale Languedoc Roussillon

WP.3: Measuring and modelling urban freight distribution (3 phases - 7 deliverables) **CPartner:** Institute for Transport and Logistics Foundation

WP.4: Policies, strategies, plans and measures on innovative energy efficient solutions in urban transport (3 phases - 6 deliverables) **CPartner:** Centre for Research & Technology Hellas / HIT

WP.5: Test of smart city solutions and action plans to implement energy efficient measures (3 phases - 4 deliverables) **CPartner:** The Valenciaport Foundation

Project structure

WP.1: Administrative and financial management of the project / coordination of the partnership (inc.WP0)

CPartner: Municipality of Piraeus

Phase 1.1: Start-up actions ensuring the efficient coordination of the partnership

(AF) Start date: 1/01/2013

End Date: 3/06/2013 del. 1

CP: LP

Phase 1.2: Administrative and financial management

(AF) Start date: 1/01/2013

End Date: 30/06/2015 del. 3

CP: LP

Phase 1.3: Day-to-day project management and quality control

(AF) Start date: 1/01/2013

End Date: 30/06/2015 del. 4

CP: LP

Phase 1.4: Coordination of transnational activities and strategic guidance

(AF) Start date: 1/01/2013

End Date: 30/06/2015 del. 2

CP: LP

Project structure

WP.2: Information, awareness raising and capitalisation

CPartner: AFT-Délégation Régionale
Languedoc Roussillon

Phase 2.1: Proposals for constructive capitalization and utilization of results approach

(AF) Start date: 1/01/2013

End Date: 30/06/2015

del.5

CP: AFT

Phase 2.2: General communication and capitalization for policy making

(AF) Start date: 1/01/2013

End Date: 30/06/2015

del.8

CP: AFT

Phase 2.3: Regional and local communication

(AF) Start date: 1/01/2013

End Date: 30/06/2015

del.4

CP: AFT

Phase 2.4: SMILE knowledge management

(AF) Start date: 1/01/2013

End Date: 30/06/2015

del.3

CP: AFT

Project structure

WP.3: Measuring and modelling urban freight distribution

CPartner: Institute for Transport and Logistics Foundation

Phase 3.1: Capitalizing data & experiences and modelling baseline

(AF) Start date: 1/07/2013

End Date: 31/12/2013 del.3 CP: ITL

Phase 3.2: Urban freight model adaptation and re-calibration with the new SMILE approach

(AF) Start date: 1/11/2013

End Date: 31/03/2014 del.1 CP: ITL

Phase 3.3: Modelling and measuring real cases

(AF) Start date: 1/02/2014

End Date: 31/05/2014 del.3 CP: CERTH/HIT

Project structure

WP.4: Policies, strategies, plans and measures on innovative energy efficient solutions in urban transport

CPartner: Centre for Research
& Technology Hellas / HIT

Phase 4.1: Energy-efficient urban freight distribution measures

(AF) Start date: 1/01/2014

End Date: 30/09/2014

del.2

CP: CERTH/HIT

Phase 4.2: Policy framework supporting energy-efficient urban freight distribution

(AF) Start date: 1/04/2014

End Date: 30/04/2015

del.3

CP: ITL

Phase 4.3: Urban freight action plans

(AF) Start date: 1/09/2014

End Date: 30/06/2015

del.1

CP: CERTH/HIT

Project structure

WP.5: Test of smart city solutions and action plans to implement energy efficient measures

CPartner: The Valenciaport Foundation

Phase 5.1: Planning of test pilot demonstrators

(AF) Start date: 3/02/2014

End Date: 30/06/2014 del.1

CP: The Valenciaport Foundation

Phase 5.2: Test of smart city solutions and energy efficiency measures for the analysis

(AF) Start date: 1/05/2014

End Date: 31/03/2015 del.1

CP: The Valenciaport Foundation

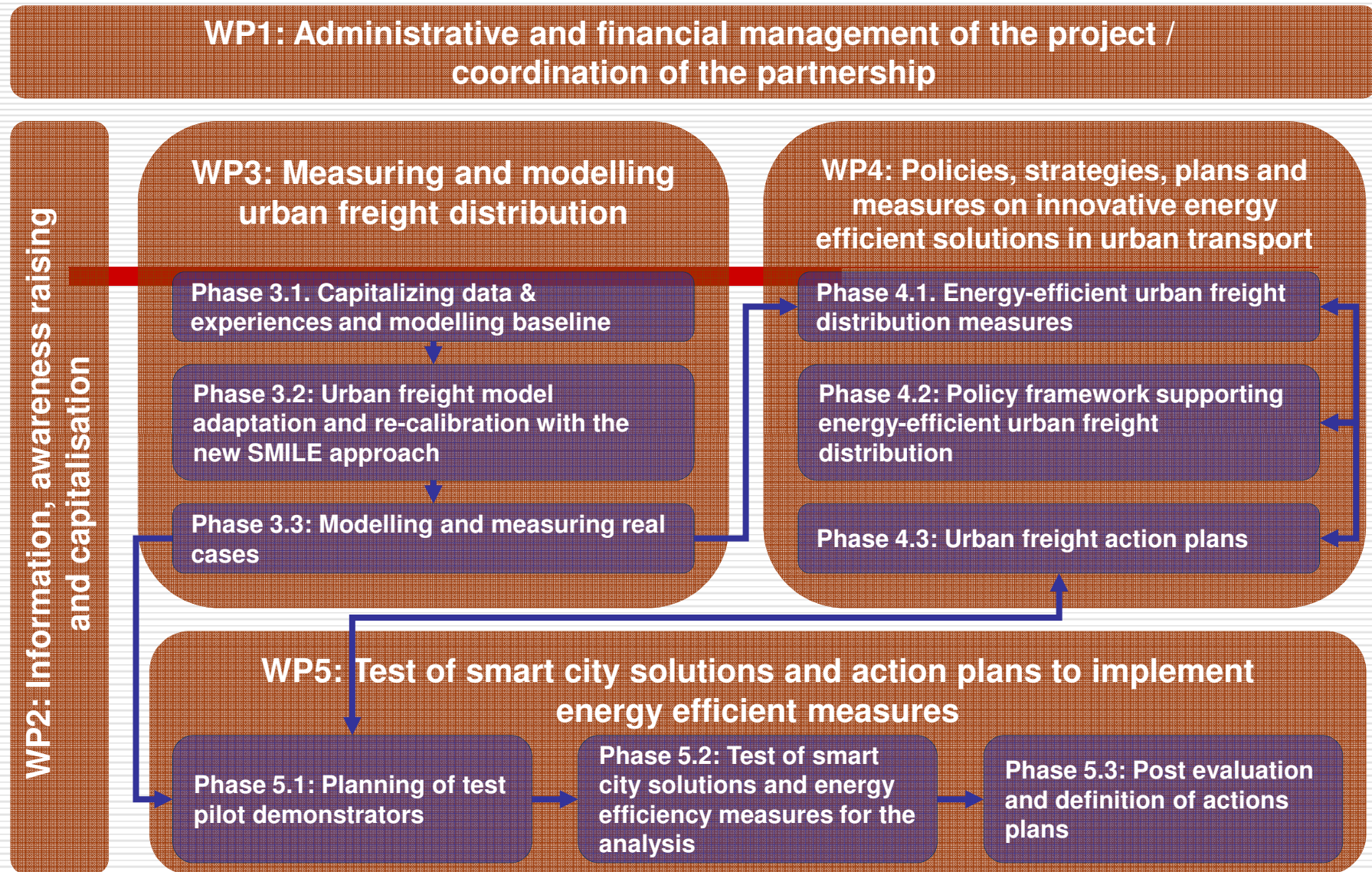
Phase 5.3: Post evaluation and definition of actions plans

(AF) Start date: 1/12/2014

End Date: 30/06/2015 del.2

CP: The Valenciaport Foundation

SMILE Project structure

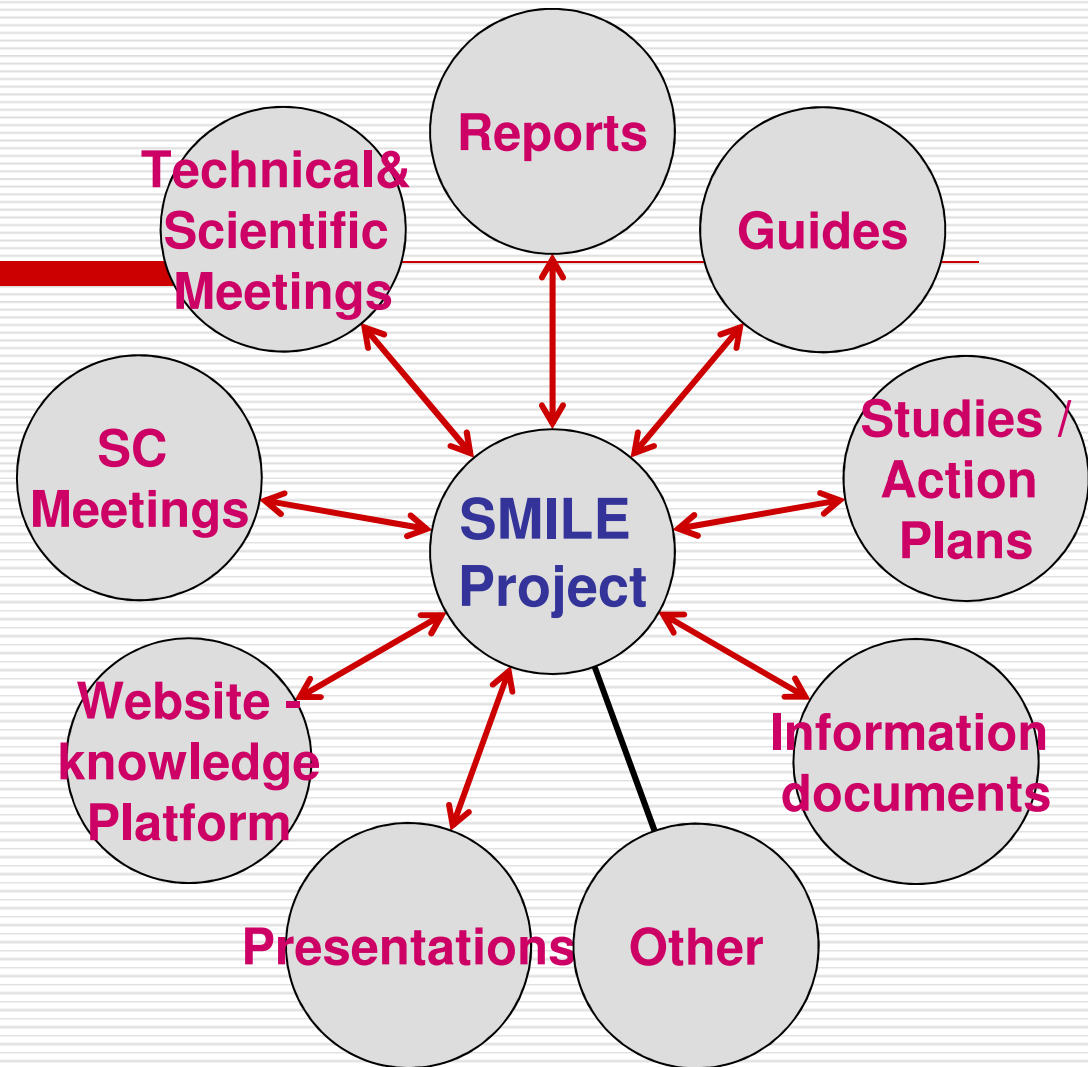


Deliverables

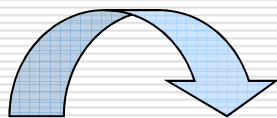
SMILE Project will produce a variety of deliverables

155 in total

49 reports
8 guides
12 studies
42 information documents
1 website
1 knowledge platform (included in the site)
42 other (meetings, events, presentations, conference, ect)



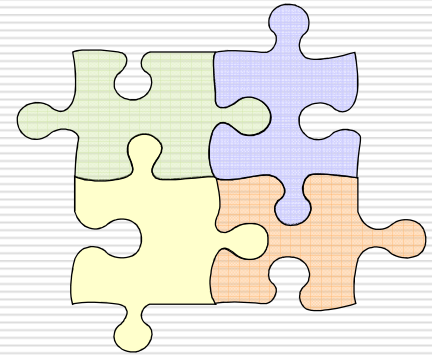
Timetable of SMILE actions



	2013												2014												2015					
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32
WP1 new																														
P1.1. new																														
P1.2. new																														
P1.3. new																														
P1.4. new																														
WP2 new																														
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WP4 New																														
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WP5 New																														
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Focusing on Management

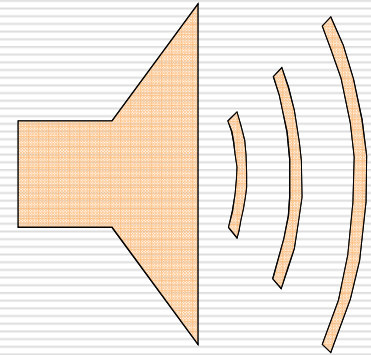
Just a look on basic actions & principles



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- ✓ **All administrative and financial procedures will be held on time**
 - ✓ **All deliverables will be produced on-time & in a high quality**
 - ✓ **Dissemination of information among partners will be easy & on time**
 - ✓ **On time schedule /coordination of Meetings and Events**
 - ✓ **Monitoring & Providing support where needed**
 - ✓ **Intervention through corrective actions where needed**
 - ✓ **Strategic Guidance of the Project**

Focusing on Communication & Capitalization

Just a look on basic actions & principles



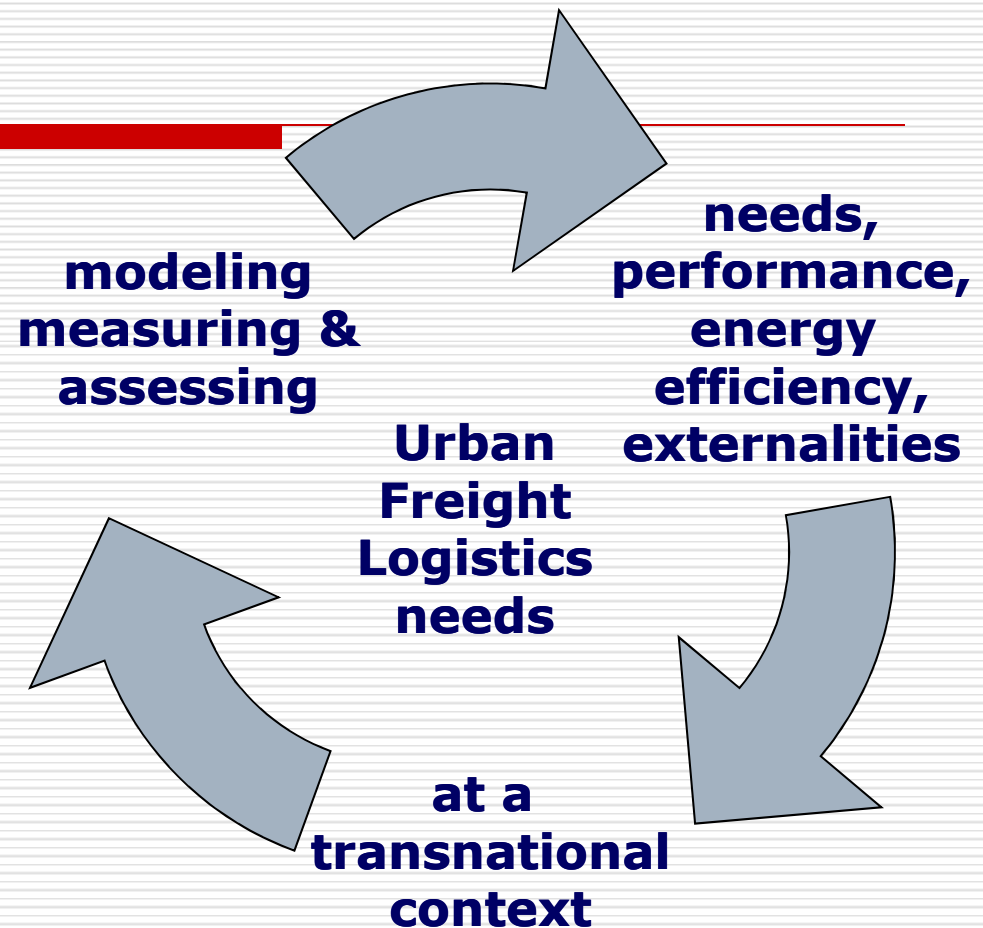
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- ✓ **Constructive capitalization and dissemination strategy according to Projects demands/results**
 - ✓ **Focus on specific target groups & stakeholders**
 - ✓ **Focus on Regional & Local authorities also through targeted workshops**
 - ✓ **Wide use of all media & internet technologies**
 - ✓ **SMILE knowledge management platform**

Focusing on Measuring and Modeling

Just a look on basic actions & principles

Adaptation and improvement of the CityGoods model

(Emilia-Romana Region / Cityports Project / CADSES)

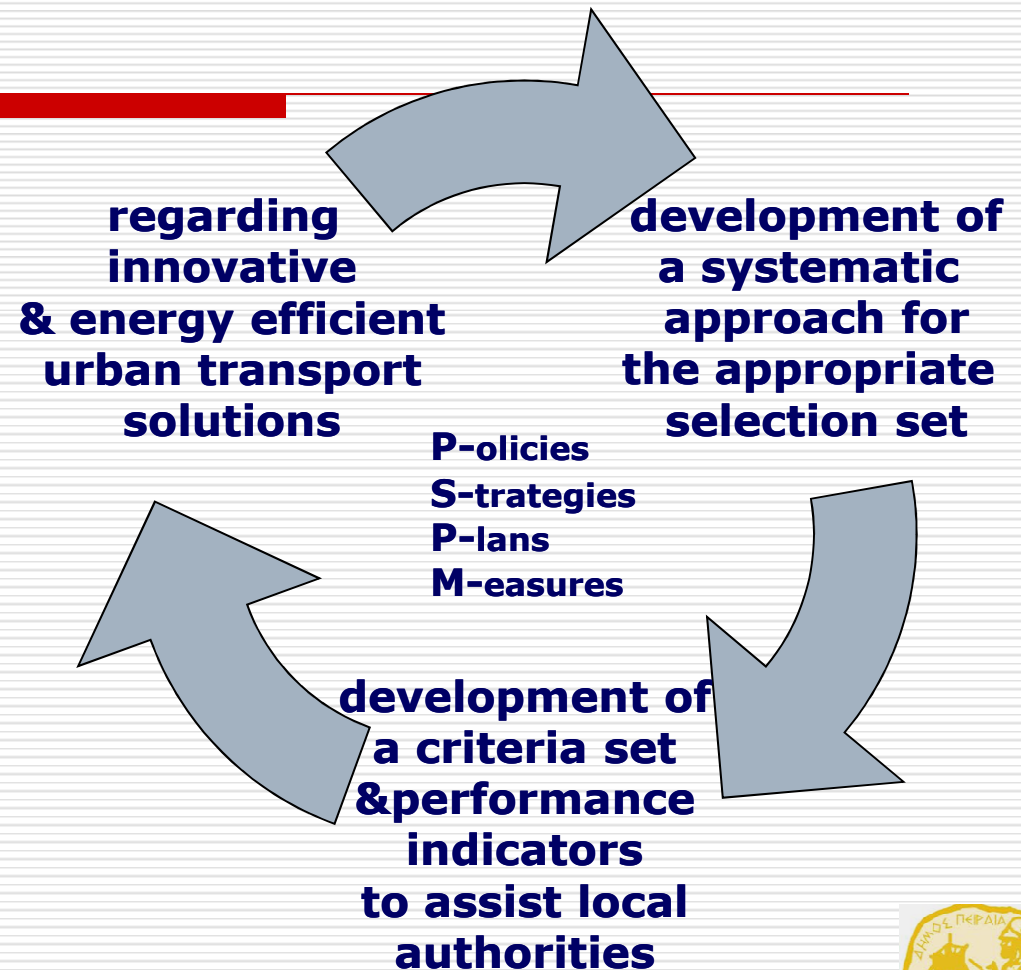


Focusing on policies, strategies, plans, measures

Just a look on basic actions & principles

Definition and assessment of transferable:

- policies
- strategies
- plans &
- measures



Focusing on SMILE cities

Just a hint of basic actions & principles

4 pilot demonstrator activities in 4 main topics (cities at least in 2 topics):

1. Innovative technologies: electric mobility
2. Information tools: ICT solutions for city logistics
3. Operational tools: urban freight centers, optimised waste collection & transport
4. Marketing tools: operators green recognition schemes

will test
smart urban
logistics
solutions

through pilot
demonstration
activities

**SMILE
cities**

involving
public
& private
actors

Thank you for your attention
