



CIPTTEC

COLLECTIVE INNOVATION FOR PUBLIC TRANSPORT

CIPTTEC FINAL CONFERENCE

BE CIPTTEC!

Move public transport forward through
innovation

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CIPTTEC Digital Toolbox

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Introducing innovative measures and solutions for Public Transport in a city is a challenging and demanding action.

What must I do as PT STAKEHOLDER ?

The Toolbox will assist **YOU**:

- to carry out an **effective benchmarking** analysis of innovative trends and real experiences over Europe and **identify** the most promising ones
- to **design** attractive, efficient and cost effective transport solutions **based on the identified objectives** and **needs**
- to **manage** the **implementation** and the **operation** of innovative solutions

Pre-feasibility

Feasibility

Operation

CIPTec Toolbox provides:

- **guidelines** on how to design and to introduce innovative measures and solutions
- a **repository of** selected emerging and new concepts/solutions for PT improvement
- **project's consolidated knowledge**

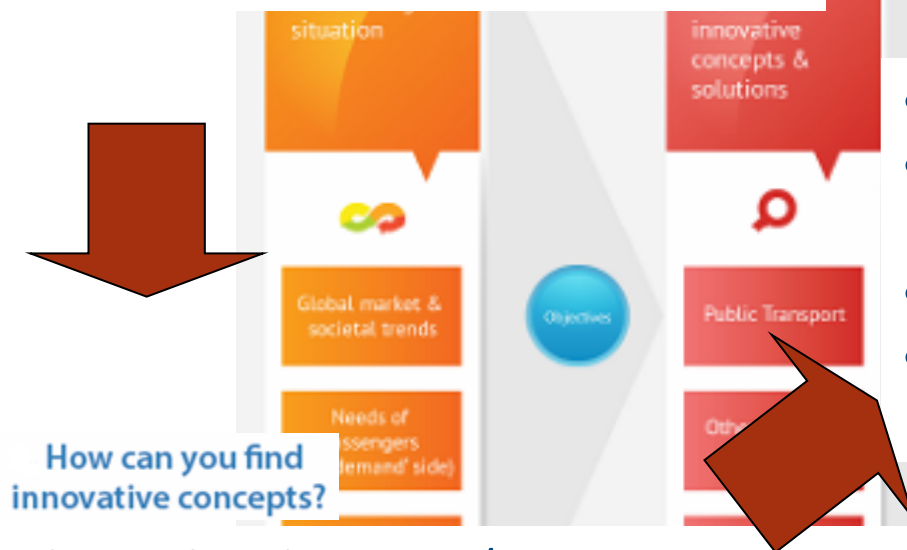
CIPTec Toolbox answers to the PT stakeholder needs as follows:

- **Which recommendations** and **which methodology** for the selection/introduction of innovative measures ?
- How can I easily **access/navigate** the CIPTec **results** ? And how can I **customize** them to my real interests ?
- How can I have a **quick overview** but also **going into details**, when needed ?
- How can I **interact** with it ?
- Will the contents **be outdated** over time ? Do I need to plan more visits ?

The guidelines provided

Evaluate the case, then take a decision

- The local context makes the difference!!
- Type of services, network, regulation, etc.
- Organization, procedures, constraints,..
- Societal trends, evolving needs
co-creation, hidden groups,

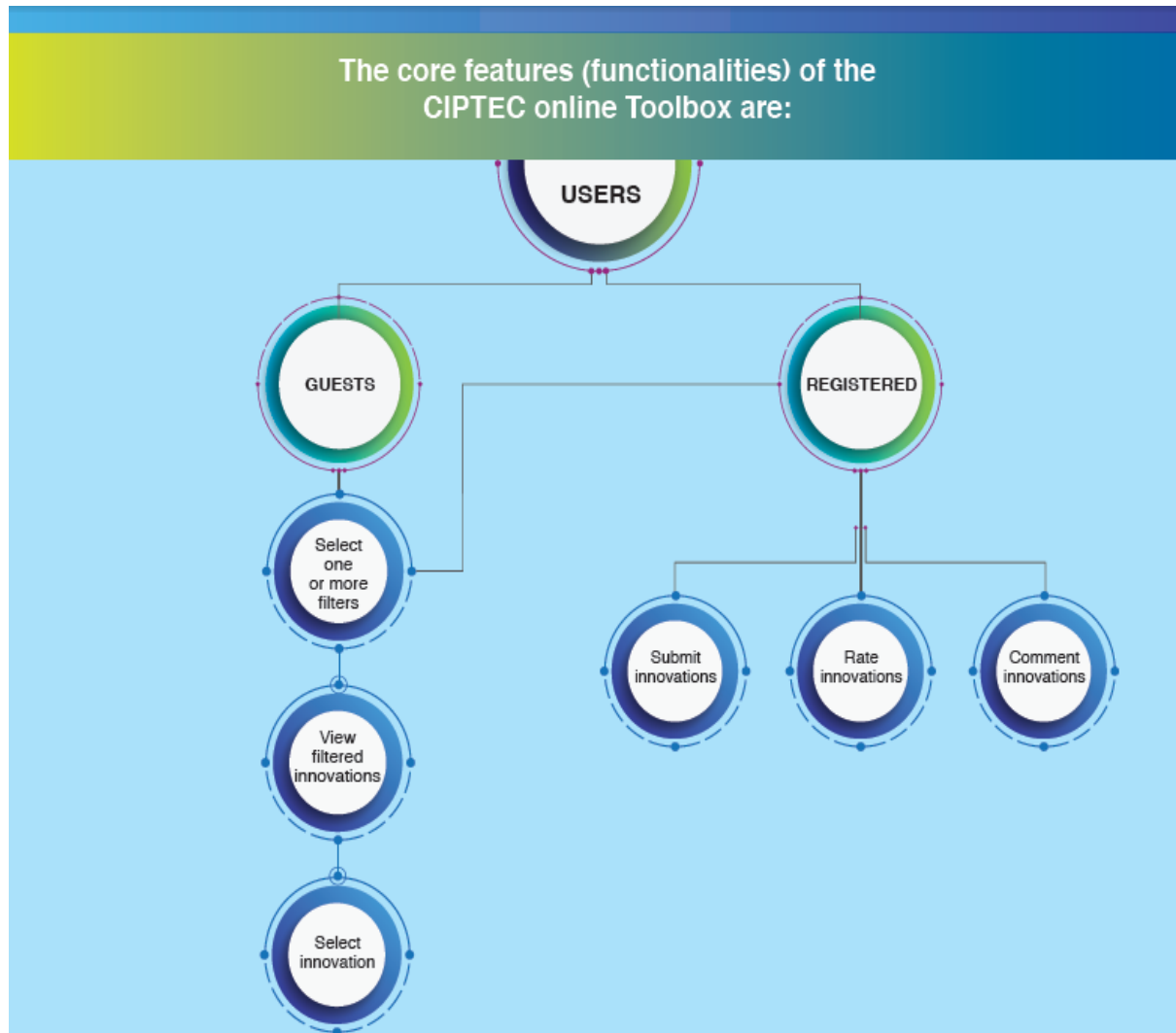


- Call for tender/contracting
- Stakeholder role, allocation of resources, procedures, ..
- Business models,
- Integration (synergies) with other services

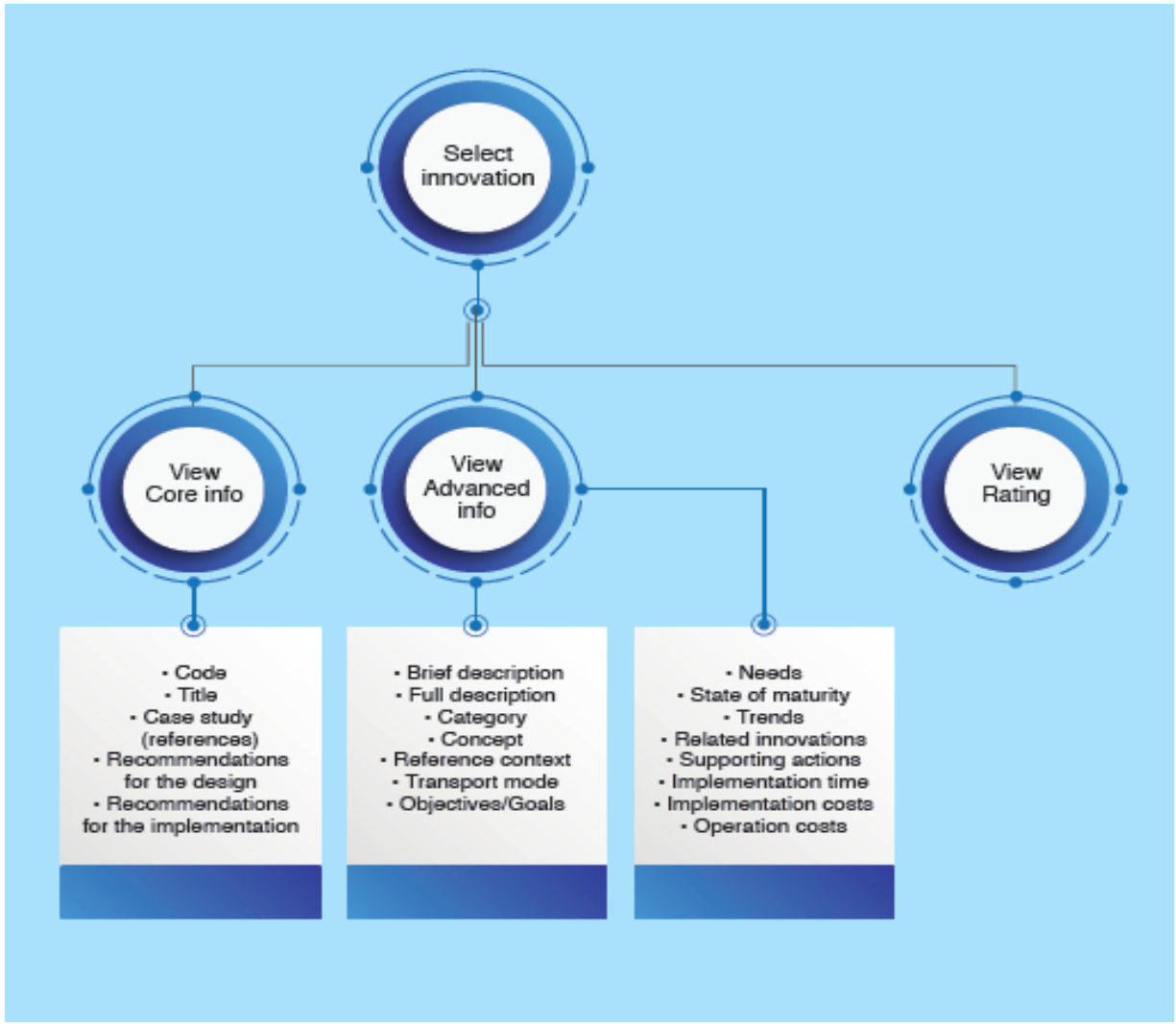
Guidelines for feasibility

- Which are the objectives/targets
- Benchmarking with comparable experiences
- Guidelines for pre-feasibility

Operation flow: a simplified scheme (1/2)



Operation flow: a simplified scheme (2/2)



ToolBox background

Reference context

Configuration Panel

Goals

Needs

Trends

Search

Clear filters



PTC.11

Bus Lane with Intermittent Priority

CIPTec SCORE: 3.6



OBN.2

Monitoring transport operators' performance

CIPTec SCORE: 3.2



PT4.18

Internet of Things

CIPTec SCORE: 3.8



PTN.9

Innovative "light" system for fleet monitoring and provision of users information

CIPTec SCORE: 3.3



PT2.8

Ticket Vendor



PTC.1

Development of the



OT2.7

Shared Mobility Agency



PTC.9

Widget for indicating the

toolbox.ciptec.eu/innovations/details/2/37

Page 1 of 6

Start Prev 1 2 3 4 5 6 Next End

List of Innovations

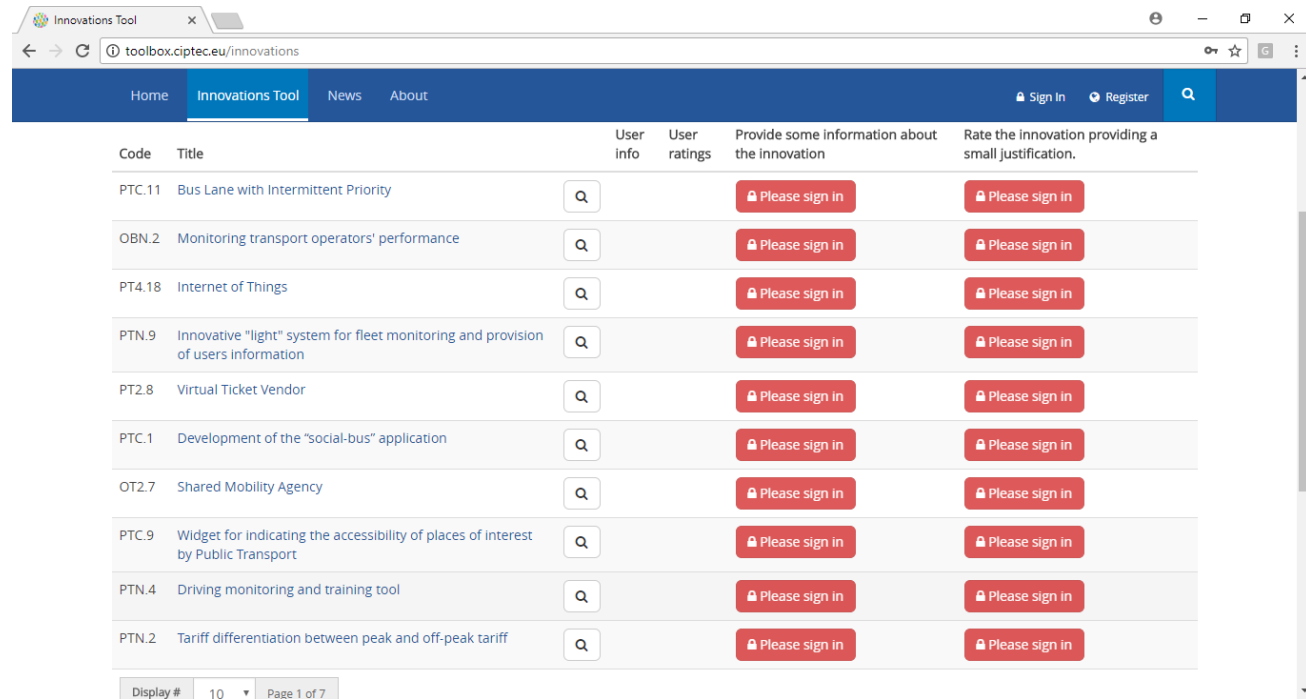
The Toolbox

Innovation

Public Transport Innovation

Target Audience

LIST OF INNOVATIONS



The screenshot shows a web browser window with the URL toolbox.ciptec.eu/innovations. The page features a navigation menu with 'Home', 'Innovations Tool', 'News', and 'About'. There are 'Sign In' and 'Register' buttons in the top right. The main content is a table of innovations with columns for Code, Title, User Info, User ratings, Provide some information about the innovation, and Rate the innovation providing a small justification. Each row includes a search icon and a 'Please sign in' button. At the bottom, there is a 'Display #' dropdown set to 10 and 'Page 1 of 7'.

Code	Title	User Info	User ratings	Provide some information about the innovation	Rate the innovation providing a small justification.
PTC.11	Bus Lane with Intermittent Priority	<input type="text"/>		Please sign in	Please sign in
OBN.2	Monitoring transport operators' performance	<input type="text"/>		Please sign in	Please sign in
PT4.18	Internet of Things	<input type="text"/>		Please sign in	Please sign in
PTN.9	Innovative "light" system for fleet monitoring and provision of users information	<input type="text"/>		Please sign in	Please sign in
PT2.8	Virtual Ticket Vendor	<input type="text"/>		Please sign in	Please sign in
PTC.1	Development of the "social-bus" application	<input type="text"/>		Please sign in	Please sign in
OT2.7	Shared Mobility Agency	<input type="text"/>		Please sign in	Please sign in
PTC.9	Widget for indicating the accessibility of places of interest by Public Transport	<input type="text"/>		Please sign in	Please sign in
PTN.4	Driving monitoring and training tool	<input type="text"/>		Please sign in	Please sign in
PTN.2	Tariff differentiation between peak and off-peak tariff	<input type="text"/>		Please sign in	Please sign in

Innovations repository

Filters to select innovations

Reference context

- Metropolitan areas
- Large urban area
- Medium-small urban area
- Any

Category

- Infrastructure and vehicle
- ITS
- Service models, organization and management**
- Finance and business models
- Integration with other services
- Marketing and promotion, customer care
- Societal involvement, new entrepreneurship

Transport mode

Goals

Needs

Trends

Search

Clear filters



PTC.11

Bus Lane with Intermittent Priority

CIPTec SCORE: 3.6



OBN.2

Monitoring transport operators' performance

CIPTec SCORE: 3.2



Selecting the innovation

Internet of Things

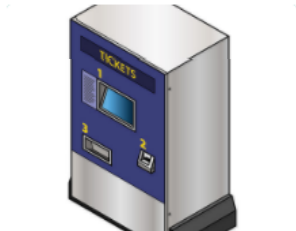
CIPTec SCORE: 3.8



PTN.9

Innovative "light" system for fleet monitoring and provision of users information

CIPTec SCORE: 3.3



PT2.8

Virtual Ticket Vendor

CIPTec SCORE: 3.9



PTC.1

Development of the "social-bus" application

CIPTec SCORE: 2.0



OT2.7

Shared Mobility Agency

CIPTec SCORE: 3.8



PTC.9

Widget for indicating the accessibility of places of interest by Public Transport

CIPTec SCORE: 3.4

Core/Advanced info of the innovations

Core info →

CORE INFO	ADVANCED INFO	RATING
Code	PT4.18	
Title	Internet of Things	
Case study/reference	COSMOS Research Project (2016). COSMOS: Cultivate resilient smart Objects for Sustainable city applications, European Commission, FP7. Available: http://iot-cosmos.eu/ Foell, S., Kortuem, G., Rawassizadeh, R., Handte, M., Iqbal, U., & Marron, P. (2014). 'Micro-navigation for urban bus passengers: using the Internet of things to improve the public transport experience', First International Conference on IoT in Urban Space, Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering	

Advanced info →

CORE INFO	ADVANCED INFO	RATING
Brief description	The Internet of Things (IoT) is the process whereby appliances and devices transmit information over the Internet. IoT applications in Public Transport concentrate around vehicle dynamics monitoring, fleet management and value-added services, providing an unprecedented opportunity for improving passenger experience, increasing service reliability and security and reducing operational costs.	
Full description	The Internet of Things (IoT) is the process whereby appliances and devices transmit information over the Internet. IoT applications in Public Transport concentrate around vehicle dynamics monitoring, fleet management and value-added services, providing an unprecedented opportunity for improving passenger experience, increasing service reliability and security and reducing operational costs.	

CORE INFO	ADVANCED INFO	RATING
Rating	No rating	
User info:	Add info to innovation	
Please sign in : Provide so		
User ratings:	Evaluate the innovation	
Please sign in : Rate the		
Back to list		
View comments	Add comments	
No comments for this innovation		
Newest	Oldest	

Administrator required

Information used for the description of the innovative concepts

CORE INFO

Code

Title

Vote

Case study (references)

Recommendations for
the design

Recommendations for
the implementation

ADVANCED INFO

Brief/full description

Category

Reference context

Transport mode

Objectives/Goals

Needs

Trends

State of maturity

Related innovations

Supporting actions

Implementation time

Implementation costs

Operation costs

Benefits achievable by the Toolbox users

What can you achieve through the Toolbox

- **Coordinated planning** and introduction of any innovative measures based on local needs and background
- **Selection** and **prioritization** of the measures
- Definition of **targets** and guidelines to **assess the** achieved level of **performances**
- **Successful management** of the implementation phase

What can you provide to the Toolbox

- **Stay in contact with the Toolbox, become contributors !!**

Evaluate the toolbox

Take the survey

Evaluate
the Toolbox

The two paper versions



Project Acronym:	CIPTec
Project Title:	Collective Innovation for Public Transport in European Cities
Project Number:	636412
Call:	H2020-MG-2014 TwoStages
Topic:	MG.5.3-2014
Type of Action:	RIA

D5.1

Toolbox for Public Transport Innovation

Final version



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Downloadable at www.ciptec.eu

Thank you for your kind attention !

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