



3rd Annual Meeting

Workshops Report

Transport & Logistics and Attractive Cities

November, 11th

Workshop Attractive Cities

Group 1: Sustainable Cities

Facilitator: Karin Marins, USP

13 Participants: BNDES, SAAB AB, Risiko, ICLEI, Lund University, Remer Consulting, São Bernardo do Campo Municipality, USP, UFRJ and IMT.

CHALLENGES	<ul style="list-style-type: none">• Improve integration among different sectors, specially in decision making processes
SOLUTIONS	<ul style="list-style-type: none">• Implement renewable energy in public transport;• Develop cooperative communications between government and society;• Implement a pilot in an area where it has autonomy to implement technologies, systems and to decision processes, so it can be analyzed and disseminated.
STAKEHOLDERS	<ul style="list-style-type: none">• Intern – Participants;• External – Municipality interested in host a pilot Project;• Others: to be defined.

Workshop Attractive Cities

Group 2: City Management

Facilitator: Kristian Lundberg, SAAB AB

12 Participants: Fraunhofer Chalmers Centre, IPT – São Paulo, SAAB AB, Curitiba Municipality, UFPA, KTH, UFCG, UFSC, Swedish Agency for Econ. and Growth, SAAB Brasil, Swedish Embassy and São Bernardo do Campo Municipality.

CHALLENGES	<ul style="list-style-type: none"> • Crime rates, lack of trust and mobility. Severe environmental effects due to climate change AND rapid urbanization with poor urban planning processes.
SOLUTIONS	<p>On a national level:</p> <ul style="list-style-type: none"> • Improve good governance – inclusion <p>On a city level:</p> <ul style="list-style-type: none"> • Improve strategic planning processes and corresponding ICT technology (Includes better long term forecasts of i.e. energy consumption, environmental impact, predicted urbanization and to communicate these forecasts in a multi-stakeholder environment) • Improve operative management with better information sharing and coordinated actions • Improve Crisis management. If strategic decision making and operative decision making improves, crisis management efficiency will also improve <p>Projects ideas:</p> <ul style="list-style-type: none"> • On a strategic level – exchange of indicators between cities, best practice (i.e. BRT benchmarking • Operational level – Information integration between stakeholders and service distribution as feedback. Can be implemented cross sectorial or between stakeholders in one sector.
STAKEHOLDERS	Universities, Cities, ICT companies, companies with domain expertise and others to be defined

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Group 3: Urban Mobility

Facilitator: Marcio Lobo, USP

09 Participants: CISB, USP, SAAB AB, Scania, FEPI, Dataprom, São José dos Campos Municipality, Student Competition.

<p>CHALLENGES</p>	<ul style="list-style-type: none"> • Systematic planning of urban infrastructure - long term, observing the entire set; • Systemic planning (broad) the traffic control - thinking the whole, composing global and local solutions; • Rethinking mobility - education - alternatives to displacements.
<p>SOLUTIONS</p>	<ul style="list-style-type: none"> • Perform extensive study on existing solutions, even partial ones, in the context of supporting urban mobility management; • Reassess and propose flexible work schedules, classes,...; • Explore social networks, developing applications that can help mobility; • Open data of mobiles (GPS) impersonally, to support central control mobility (CET); • Create software to integrate information sources and traffic control systems; • Add intelligent procedures for predicting traffic conditions and routes proposition; • Implement communication system via radio to support urban traffic (integrated with GPS devices).
<p>STAKEHOLDERS</p>	<ul style="list-style-type: none"> • CET, Municipality • Companies qualified to develop traffic control systems; • Automotive companies; • IT companies and internet service providers; • Universities; • Others: to be defined

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Group 4: Traffic Management

Facilitator: Angelo Souza, I3 Systems

09 Participants: Chalmers University, CISB, Scania, CRC, UFMG, Geotechnologies, SAAB AB.

CHALLENGES	Reduce the period that people spend in traffic
SOLUTIONS	Develop a project focused on marketing and education of individuals and companies, in order to generate actions to optimize mobility, such as: <ul style="list-style-type: none">• Improve information sharing with new technology;• Elimination of unnecessary travels (Lunch at Work, Home Office);• Flexible working schedules.
STAKEHOLDERS	Internal: <ul style="list-style-type: none">• Participants External: <ul style="list-style-type: none">• Government• IT companies• A pilot company• Academia• and others to be defined

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Group 5: Energy Planning

Facilitator: Semida Silveira, KTH

13 Participants: MCTI, Uppsala Univ., USP, Sena Arquitetura, Science Partner SE, UniSEB, Student Competitions, UNESP, UTFPR, Osram, IPT – São Paulo and Lopes e Lemos Advogados.

CHALLENGES	<ul style="list-style-type: none">• Develop and Implement sustainable smart grid solutions;• Create solutions adapted to national realities.
SOLUTIONS	<ul style="list-style-type: none">• Studying a strategy for building a smart neighborhood (micro sectors);<ul style="list-style-type: none">• Small regions for planning and intelligent energy management;• USP campus or area of Ribeirão Preto with systemic control.• Implementation of Community electricity sales;
STAKEHOLDERS	Internal: Academy, Private Sector
	External: Municipality, Utilities and others to be defined

Workshop Transport & Logistics

Group 1: Port Automation

Facilitators: Rosario Castro (LSP), Rui Botter (CILIP/USP)

09 Participants: Brasil Terminais Portuários, EBEI, Portocel, WLM Systems, Lindholmen Science Park, CILIP/USP and USP.

CHALLENGES	<ul style="list-style-type: none"> • Difficulty on finding a common automation solutions for terminals of different types; • How to automate a determinate phase of the operation.
SOLUTIONS	<ul style="list-style-type: none"> • Consider different types of automation for different phases of operations; • Simulation of short term operations to provide alternatives for the operations (benchmarking).
STAKEHOLDERS	<ul style="list-style-type: none"> • Academia • Software development companies • Equipment development companies • Terminals (Containers, General Loading, Bulk) representatives

Workshop Transport & Logistics

Group 2: Port Efficiency and Security **Facilitators:** Bo Norrhem(LSP), Rafael Levy (CISB), Afonso Medina (CILIP/USP),

12 Participants: DHL, Dataprom, Portocel, SAAB Brasil, Scania, Lindholmen Science Park, CISB, ESALQ/USP, CILIP/USP, IMT and UFPA.

CHALLENGES	<ul style="list-style-type: none"> • Cargo congestion at terminals; • Complex and inefficient procedures (bureaucracy); • Traffic Control of Waterways.
SOLUTIONS	<ul style="list-style-type: none"> • System to optimize the terminal resources use (state of the art studies); • Build a port model that works with more intelligent procedures (“intelligent bureaucracy”) (benchmark); • Technology for waterways traffic control.
STAKEHOLDERS	<ul style="list-style-type: none"> • Sector associations • Government • Terminal managers • Sweden: Port of Gothenburg • Academia

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Group 3: Sea Traffic Management

Facilitators: Per-Erik Holmberg (Viktorias ICT), Daniel Mota (CILIP/USP), Newton Pereira (CILIP/USP)

10 Participants: BNDES, SAAB AB, StoraEnso, Saab Traffic, Santos Brasil, Viktoria Swedish ICT, KTH, CILIP/USP and LabTrans/UFSC

<p>CHALLENGES</p>	<ul style="list-style-type: none"> • Improve efficiency of Short Sea Shipping (Cabotage) ; • Congestions and lack of capacity for moving goods from Santos to final destinations (Distribution); • Traffic management for Inland Shipping (Tiete-Parana, Parana-Paraguay) • Lacking of a Vessel traffic management in Port of Santos
<p>SOLUTIONS</p>	<ul style="list-style-type: none"> • Knowledge gaps of the state of the art studies; • Find solutions and incentives for distribution in a workshop-based projects; • Cabotage study simulating alternative routes; • Pre-study of the prerequisites and the state of the art of traffic management; • Investigate traffic stream; • Adapt solutions to waterways; • Dialogue process at CISB, involving related stakeholders, in order to identify existing barriers and possible enablers to address the missing Vessel Traffic Management capability at port of Santos.
<p>STAKEHOLDERS</p>	<ul style="list-style-type: none"> • Academia • Truck drivers representative • Related unions • Carriers representatives • Terminals • Road traffic authorities • Port authority • Cargo owners • Ministry of transport

Contact

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