



Tiger Demo

GENOA FAST CORRIDOR

Port & Shipping Tech 2013

Genova, 19 Settembre

Genoa Fast Corridor Demonstrator Leader

Maurizio Anselmo

Terminal San Giorgio – Managing Director



Agenda

Dove siamo arrivati

Framework operativo TIGER\GFC

Opportunità Future

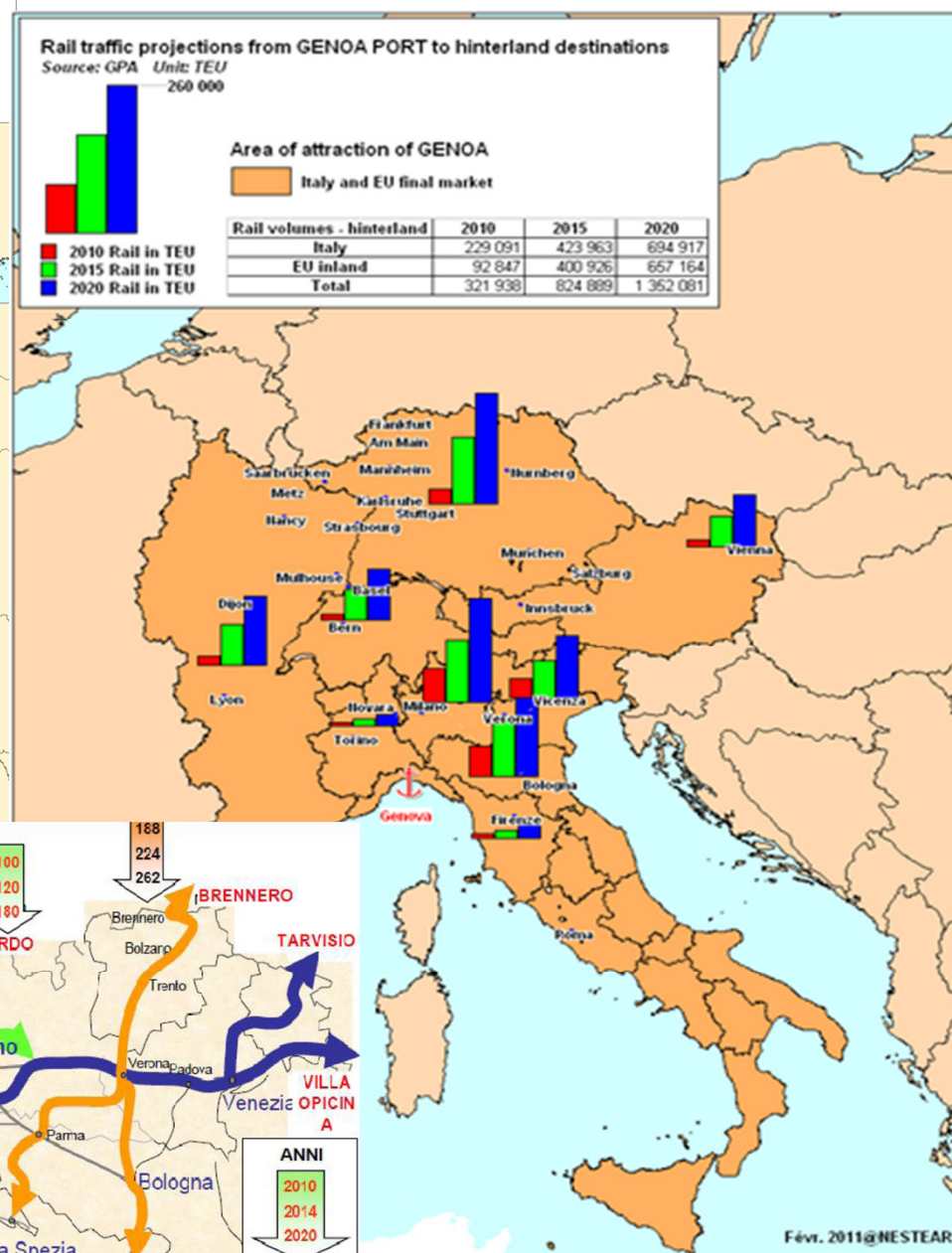
- Corridoio Intermodale Internazionale
- Liguria quale snodo tra Sud Est asiatico e Nord Europa

Obiettivi del progetto Tiger

- **Genoa port decongestion:** exploitation of the existing infrastructures connecting rail and dry port facilities.
- **High quality “door to door” delivery service** : through improved rail transport and intelligent digital systems.
- **Transit time reduction via Genoa port:** creation of new best practices, implementation of, the “extended port” approach and exploitation of “railway dry port”
- **“Door to door” transport cost reduction** connection of the whole logistic chain via train shuttle service.
- **Environmental cost reduction** switching from traditional road transport system to railway transport + conversion from paper-based data exchange to digital systems.

COMPETITIVE REACH

Structure of the services of combined transport of Genova



TIGER Project: the Partners

- Terminal San Giorgio
- Rivalta Terminal Europa
- Autorità Portuale di Genova
- Regione Liguria
- Voltri Terminal Europa
- P&T, Novaconsult, NewDeal, Circle
- Joint Research Center
- Agenzia delle Dogane (con una collaborazione esplicita relativa al progetto Il Trovatore)
- ATI Ignazio Messina & C – TSG



Direzione Centrale Tecnologie per l'Innovazione

TIGER DEMO - GFC - concepts extension

TIGER Pilot

TIGER DEMO
Transition & Upgrading

GFC corridor

GFC

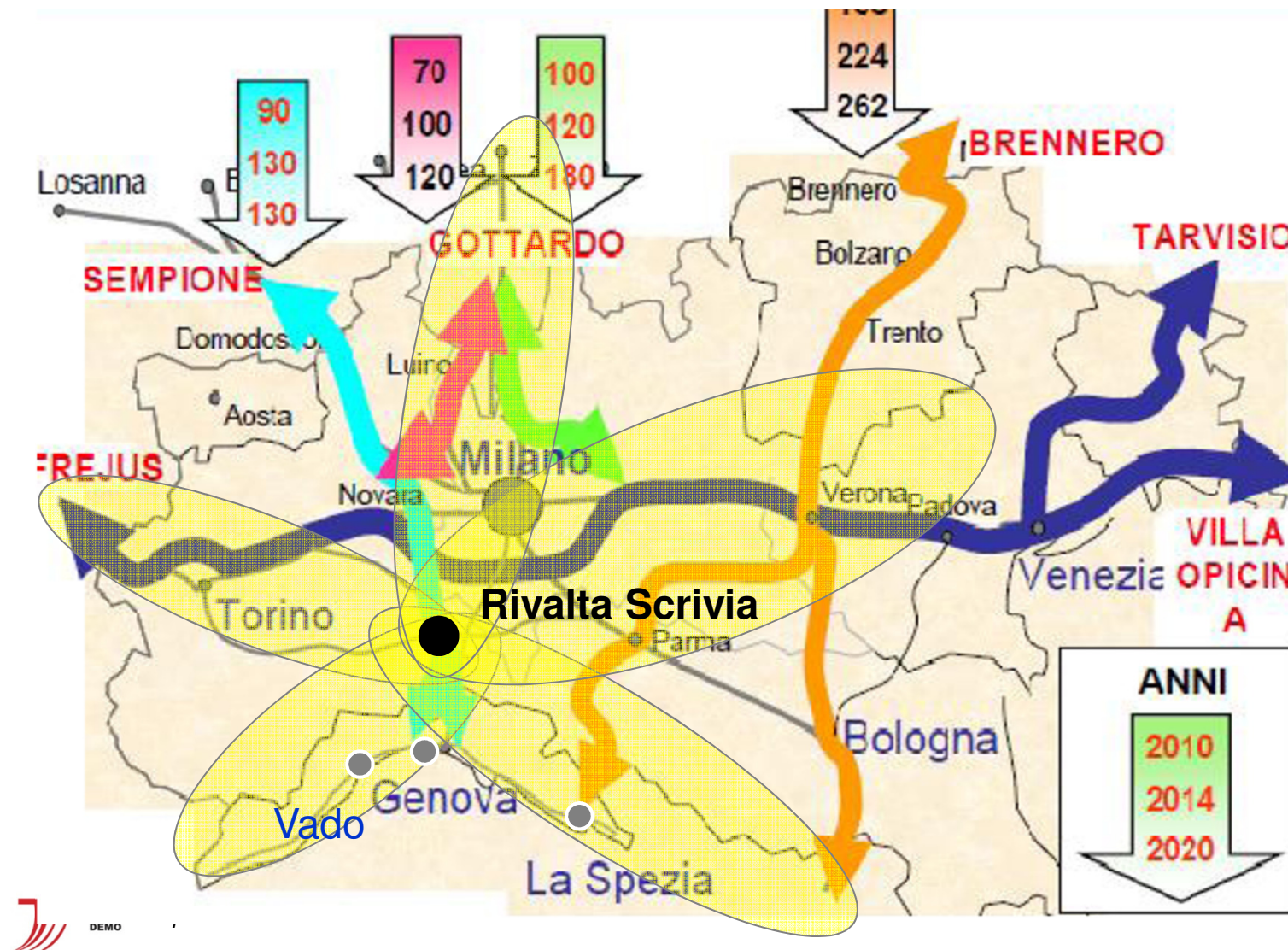
- **Industrialized shuttle train services to/from Genoa-RTE**
- **Innovative industrialized tracking & tracing** supported/shared by Italian Customs Agency for e-customs/RTE
- **Innovative RFID e-Seals** for trains & reach stackers in large scale movements, for real time information
- **Cooperation with intermodal partners**, for managing integrated traffic flows and related information
- **Full rail traffic management system**, simulation & monitoring in RTE.

GFC extended

- **Powerful system supporting** an enlarged traffic volume for optimizing T&T of different flows at the same time
- **Integrated and upgraded** customs procedures and integration
- **Intermodal management and tracking**, gate automation, focus on integration between rail components and truck transport

Il Genoa Fast Corridor Demonstrator

“Extended port” and “railway dry port” strategy shared and supported by public (Liguria Region and Genoa Port Authority) and private (RTE and TSG) GFC partners.



Genoa Fast Corridor: overall results

- **666** TEUs per month;
- **28.091 TEUs** global transit from April 2010 to July 2013.
- «total costs» reduction concerning shuttle trains up to **26%**;
- Reduction of «operative costs» related to terminal up to **10%**;
- transit time port – dry port up to 37,1%
- dwell time reduction (due to various aspects, among which customs) up to **40%**;
- CO₂ Emissions Reduction : estimated **4 kg/TEU**.

GFC – Results

Best Practices	<ul style="list-style-type: none"> ▪ Cooperation between 3 different terminals in the Genoa Port: PSA Voltri-Prà, ATI Ignazio Messina - TSG ▪ Introduction of new operational concept involving processes + technologies + rules ▪ RTE authorized as Genoa Port Customs Area ▪ Deployment of ICT Technologies in the whole logistic chain: T&T, Integrated CTS management systems producing shorter transit time & service improvement
Technologies & innovations	<ul style="list-style-type: none"> ▪ New Business Model for “shuttle train loading and dispatching” ▪ E-customs, E-seals, E-freight
Investments	<ul style="list-style-type: none"> ▪ TSG - € 1.600.000 eligible costs (Pilot+Demo) ▪ RTE - € 3.700.000 eligible costs (Pilot+Demo) ▪ TSG+RTE invested more than € 10 MM on GFC ▪ In addition to RTE investments of € 100 MM
Results & Achievements	<ul style="list-style-type: none"> ▪ Sea Port dwell time & transit time reduction 37,1% ▪ Operational costs & service quality improvements ▪ Improved geographical accessibility and competitive reach ▪ Extended quay concept: 9050 TEUs moved in 28 month. (April 2011 – July 2013)

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Genoa Fast Corridor



GFC – PROBLEMS SOLVED

Port Terminal



Operative System

Wireless RFID
Vehicular
Handheld

Tracking & Tracing

Customs

eSeals

Genoa Port Authority
ePort System

RFID
Seals



Italian
Customs
Agency



Train Systems
GPS

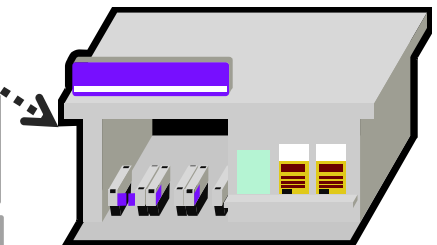


Wireless RFID
Vehicular
Handheld

Operative System

ERP

Dry Port



Repairs, Additional
Services, Logistics



Brussels, August 6th 2013

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Complete Intermodal Connection



GFC Corridor – the Fastest Way to Central Europe





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