

Intelligent Transport System & ITS World Congress 2012, Vienna



The Problem

- Safety
 - 1,4 Mio. fatalities/y worldwide, ca. 40.000 in Europe
- Environment
 - Increasing emmissions, polutions, land use, etc.
- Efficiency
 - Traffic jams, delays, etc.

Loss for European Economy about 200 bn Euro/year

Sustainability Goals

- (close to) Zero fatalities
- (close to) Zero emmissions
- (close to)Zero traffic jams

Organisation of traffic - today

Traffic control

distributed



Inland navigation Sea navigation



Individual Traffic

central



Rail



Air

19th ITS World Congress, 22 to 26 October 2012

Tomorrow – cooperative traffic management

distributed

Vs.

central



More central responsibility:

- Automatic traffic data logging
- Traffic information
- Traffic control

Trend

Less central responsibility:

- more information into the vehicle
- Decision support system for the train driver, for the captain
- Improved use of existing infrastructure
- Linking transport modes
- High quality mobility information and
- planning services (persons, goods)

tomorrow

distributed

central





Common applications



Tactical Traffic Image Strategic Traffic Image

Providing minimum set of data for

- traffic information
- traffic planning
- traffic forecast

Three pillars for Co-operative Traffic

Management

Infrastructure to Vehicle Communication 12V

Autonomous Vehicle driving

Vehicle to Vehicle Communication V2V

Intelligent Transport System – todays research activities

- Technological approach:
 - intelligence': the capability of the system to react on a (critical) situation in short term (almost immediate)

Intelligent Transport System research activities of tomorrow

- Management approach :
 - intelligence': the capability to allocate a capacity in the infrastructure to an individual demand (for transportation) – predictive operation

Common Goal:

 Maximise utilisation of existing/available infrastructure capacity in an efficient way

To:

assure users of the transportation system being

,smarter on the way'

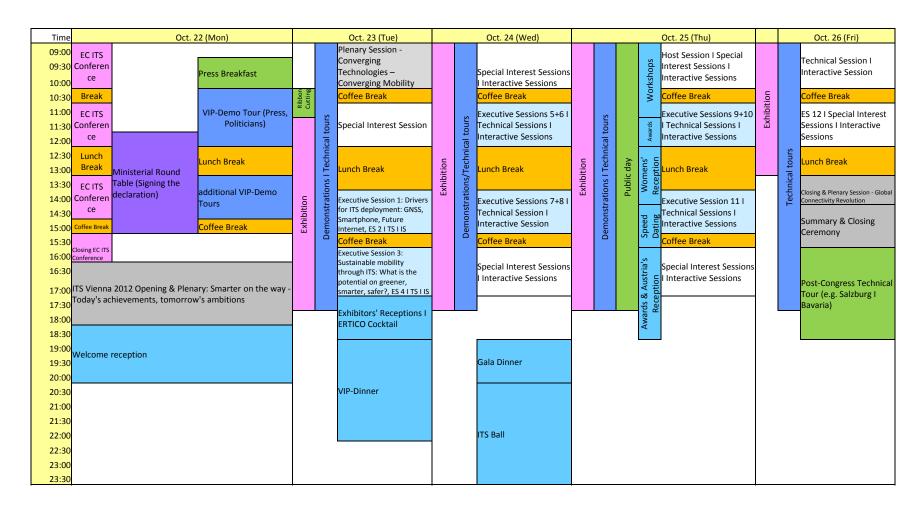


19th ITS World Congress Oct. 22-26 2012, Vienna



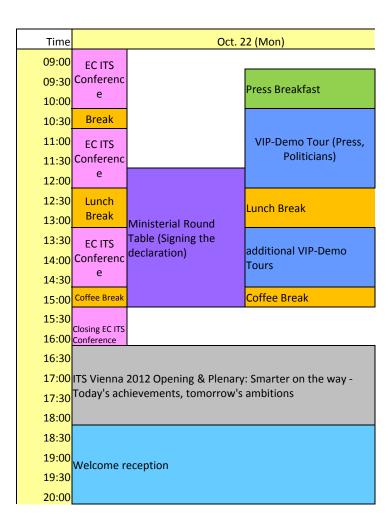
Overview of ITS World Congress Oct. 22.-26., 2012, Vienna

Congress at a glance



Highlights Monday, 22 October 2012

- ITS-Conference of European Commission
 - 9.00 16.30
- Press Breakfast
 - Minister Bures, Asfinag, National Industry
- Press Event Demonstrations
 - VIP Demo Tour
- Ministerial Round Table
 - 12.00 15.30
- Plenary Session
 - "smarter on the way today's achievements, tomorrow's ambitions"



Ministerial Round Table

Participants:

Vice President Kallas, Minister Bures, Zypriot. Ministeractual EU Presidency

- Invitation to Ministers from US, Russia, China, Japan, etc.
- Topics
 - Legal framework
 - privacy, security, standardisation
 - Cross border cooperation
 - seamless transportation
 - Monitoring of deployment
 - Report at annual ITS World Congress

Highlights TUE - FRI

- Tuesday
 - Plenary Session: Converging technologies Converging mobility,
 - Ribbon cutting exhibition,
 - Exhibitors receptions
 - VIP Dinner, (sponsored by Swarco)
- Wednesday
 - Sessions focussing urban mobility
 - Gala Dinner & ITS Ball, (sponsored by Siemens & Kapsch)
- Thursday
 - Public day
- Friday
 - Plenary Session: Global Connectivity Revolution,
 - Closing Ceremony, 2.30 pm
 - Post congress tour Salzburg, departure 4.00 pm

VIP Dinner at the City Hall

- 250 VIP's
 - 100 Persons from Host region
 - 50 Persons from ITS Europe
 - 50 Persons from ITS Amerika
 - 50 Persons from ITS Asia Pacific
- Performance: MoZulu Art & Ambassade Quartett
- Sponsored by Swarco



Gala Dinner at the Hofburg Vienna

- Honoured guest:Minister Doris Bures
- Four-course banquet (starts at 19.00)
- ITS Ball 21.00-midnight Performance
- Midnight Quadrille
- 1200+ participants



Public day:

- Students' presentations of results and best practice examples from ITS school-projects
- Award ceremony with Minister Doris Bures, two catagories:
 - Young academic professionals and researchers
 - Pupil ITS application competition
- Women's reception with welcome speech by Minister Doris Bures and statements by successful professional female experts
- "Speed dating" for pupils with ITS experts
- Award ceremony, two categories:
 - User Generated Content Action
 - Congress Navigator Challenges
- Welcome to Austria booth (reception)
- Guided tours for the public
- Demonstrations and technical tours for the public

Plenary Session & Closing Ceremony

- Plenary session: "Global Connectivity Revolution", 13.30 – 14.30
 - Honoured guest: Neelie Kroes, VP EC
- Closing Ceremony, 14.30 16.00
 - Video: Review ITS Vienna 2012
 - Summary of the conference sessions (15 min.)
 - Video presentations and invitations (speeches) to:
 - 20th ITS World Congress (Japan)
 - 21st ITS World Congress (Detroit)
 - Handover of the globe (Vienna to Tokio/Japan)

Executive Sessions

12 Executive Sessions covering the main topics

- ITS and the economy doing more for less
- New concepts for smart mobility
- Traffic Management Infrastructure Deployment Models
- Elements of ITS Policy and Global Cooperation
- Traffic data and traveller information in the cloude transport era
- Global Vehicle Safety Systems Impact of Cooperative Services
- ITS Harmonisation and Cooperation for a Global Vision
- Comfortable an resilient system for the next generation Telecom
- ITS enabling future sustainable mobility
- Future Trends in Urban Mobility
- New GNNS Services—boosting ITS
- Making multimodality the pillar for urban life the role of ITS

Paper submissions

- Overall: 1,085 papers
- Total Europe: 682
- Total Asia Pacific: 294
- Total America: 109

Sessions Summary

- 3 Plenary Sessions
- 7Executive Session
- 74 Special Interest Sessions (5-6 speakers each)
- 100 Technical/Scientific Sessions (4-5 speakers each)
- 7 Interactive Sessions (10-15 presentations each)

Total number of speakers/presentations about: 1100

Additional Events in conjunction with ITS World Congress

- Pre Congress Workshops:
 - O IBEC
 - ITS Crash Courses
 - O NEARCTIS
 - US-EU ITS Cooperation Meeting
 - o etc
- EuroCities Assembly
- GALILEO EXPO

Galileo Europen Space Expo



Main Sponsors

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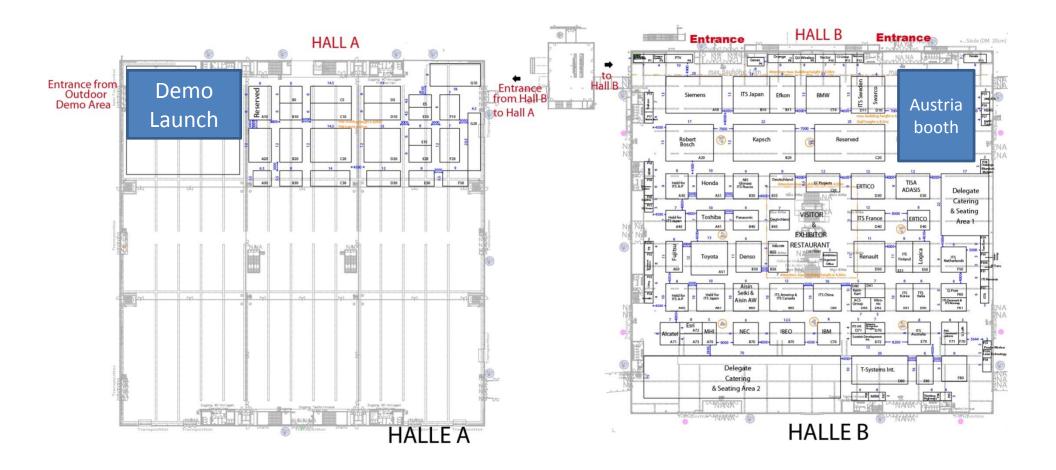
Sponsoring & Cooperations: Daniela Kraft, daniela.kraft@austriatech.org, Phone: +43 676 6140077

Exhibition and Demonstrations

Exhibition

- 14,500 sqm Hall B fully allocated
- Stand sales now expanding into Hall A (3,600 sqm)
- Aim is to connect the exhibition space with the Demonstration Launch Area in Hall A
- Continuing interest in exhibiting being received
- Targeting for some 7,000 non-delegate exhibition visitors in addition to delegate attendance

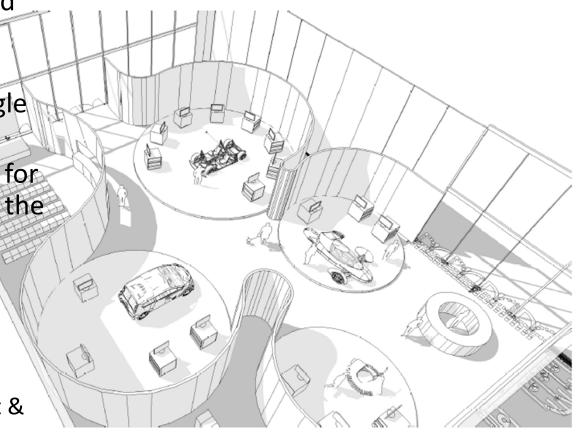
Exhibition



1st Demo Launch (Hall A)

 Central registration and information point

- Introduction area and explanation of the single demo tours
- Colour coding scheme for topics (in hall A and at the outside parking area)
 - Cooperative Mobility
 - E-Mobility
 - Navigation
 - Public Transport
 - Network Management & Operations



Hall A: A2 - Demonstration Launch Area





Demonstration tours start/end



Cooperative mobility demo

- Partners: Testfeld Telematik, Car2Car
 Communication Consortium
- Drive of 30 min. with 8-10 Traffic efficiency related use cases on urban roads and
- motorways (A23, A4)with VMS gantries
- 2 road safety related use cases on parking area
- Link to P&R



Mobile App: Congress Navigator

Mobile App: Congress Navigator/functions

Modul B – My Congress

Congress information (sessions, speaker...)

Personal calendar

Challenges (playing element)

Modul C – Outdoor Routing

Mobility in Vienna

Multimodal routing in Vienna

Special information (hotels...)

Modul A -

Service Interface

Interface to Brintex
Handling of module-requests
Design

Modul D - Indoor Routing

Georeferencing of the congress area
Routing and localisation at the congress
Interface to outdoor routes

Modul E – Feedback

Rating and feedback to sessions, speaker...

Questionarry

Integration of services as Twitter

Navigator | Impressions:







ITS Vienna 2012, always online

- Website: <u>www.itsworldcongress.com</u>
- Facebook: <u>www.facebook.com/itsvienna2012</u>
- Twitter: http://twitter.com/#!/itsvienna2012
- Youtube: www.youtube.com/itsvienna2012



We look forward to seeing you in Vienna!



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