



INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

Fostering ITS Policies

Joint Workshop TTS Italia & IRF
Bologna, 5.12.12

Josef A. Czako
Chair, ITS Policy Committee of IRF



Portfolio and Experience of Kapsch TrafficCom Group.



Safety & Security

Road User Charging

Urban Access Management

270 Projects in 41 countries

80% Of Multi Lane Free Flow (MLFF) Systems worldwide are supplied by Kapsch TrafficCom

100 Cars per second are passing through Kapsch TrafficCom's MLFF tolling points

64 Million drivers that use our OBUs (On Board Units) as a means of payment

4 of 6 National truck tolling schemes in Europe use Kapsch TrafficCom's technology and services

12 Months (average) to deliver complete national truck tolling schemes (for the Czech Republic and Austria)



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What challenges does the road sector face today?



The Doomsday Scenario

©Kapsch TrafficCom

Parking Problems

Sick People

Financing Problems

Accidents

Water Pollution

Congestion

Bad Air Quality

City Hall
Education Center
Health

[illegible]



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Challenges in Road Transport – ITS is an Answer



**Financing
road
infrastructure**

**Optimising
traffic flow,
reduce
congestion**



**Protecting the
environment**

**Improving
road safety**



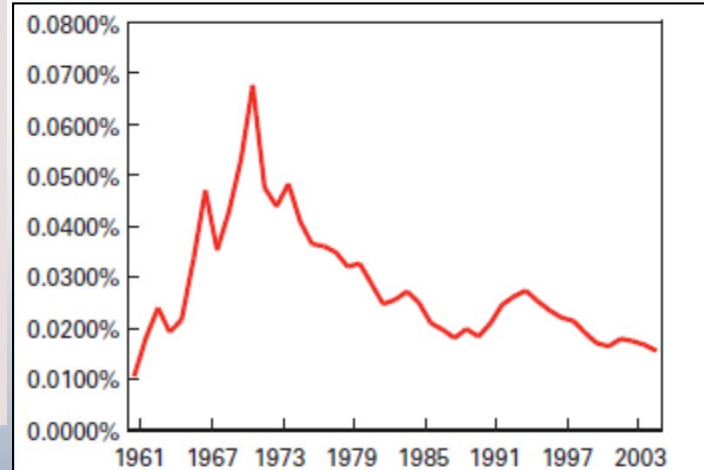
ITS

Better roads, better world.



Some challenges in figures:

- **United Nations figures:**
1,3 million road deaths a year, 50 million injured, costing society 100 billion US\$ annually



Public-sector transportation research and development as a percentage of GDP (USA)

- **Urban congestion in US 2007:**
4,2 billion hours wasted in traffic jam, 87 billion US\$ congestion costs
- **European Union:** 1,9 % of GDP “eaten” by congestion, i.e. 233 b€

- **World Health Organisation:**
urban air pollution kills 1.2 million annually



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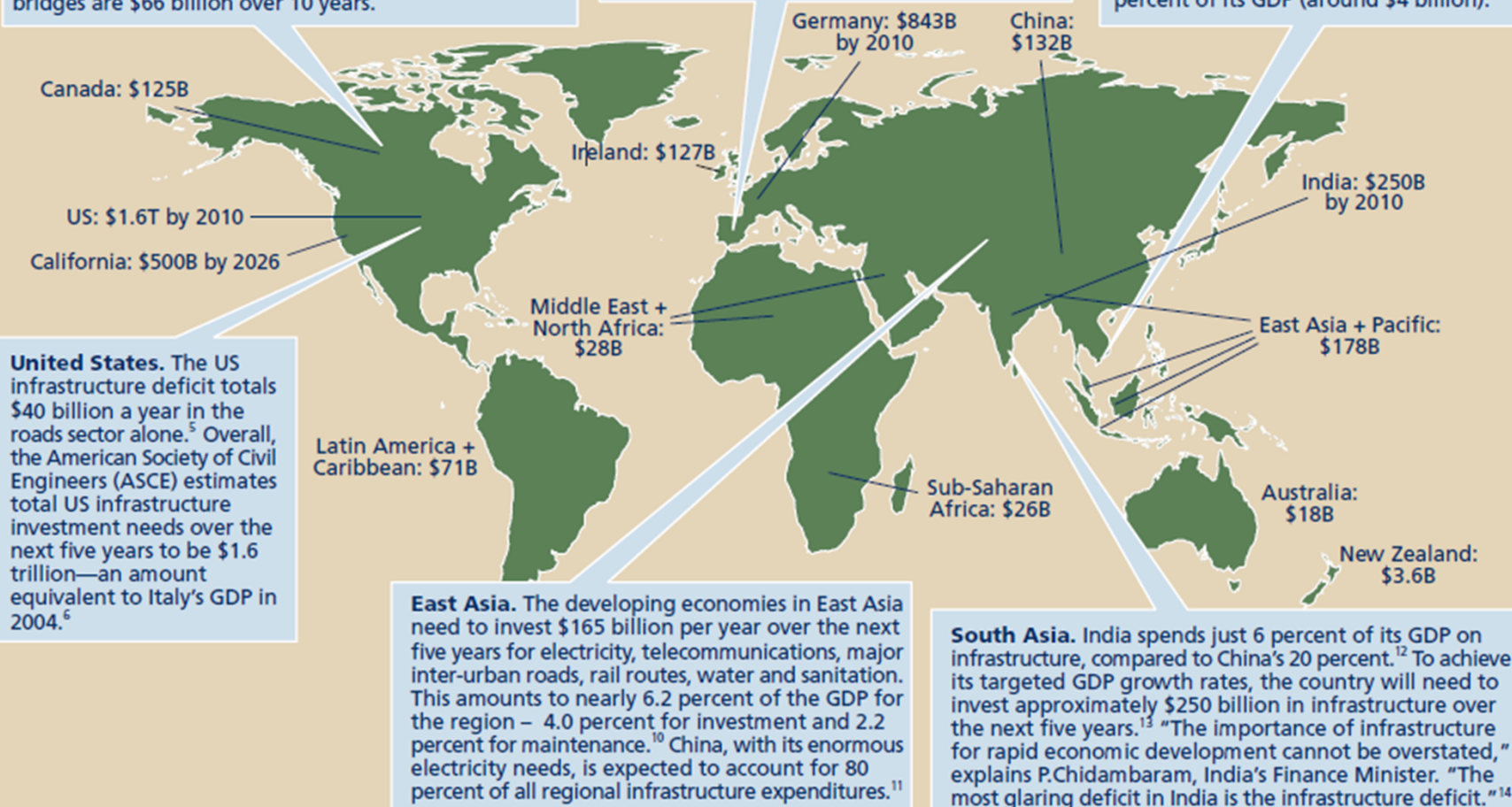
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Figure 1. Projected Infrastructure Investment Needs

Canada. Plugging Canada's infrastructure gap requires an investment of six to ten times the level of current annual government infrastructure spending. Canada's local governments alone face a \$60 billion annual infrastructure deficit—a number growing at a rate of \$2 billion a year.⁷ Investment needs for urban roads and bridges are \$66 billion over 10 years.

Europe. The infrastructure needs for the European Union run into trillions of dollars. The energy sector alone requires \$1.2 trillion over the next 20 years.⁸ Approximately \$90 billion is needed for infrastructure investment in Germany alone each year.⁹

South Pacific. A survey by Econotech and the Australian Council for Infrastructure Development (AusCID) puts Australia's infrastructure deficit at \$19 billion.¹⁵ Meanwhile, the infrastructure deficit in New Zealand is estimated at 5 percent of its GDP (around \$4 billion).¹⁶



Sources: World Bank, American Society of Civil Engineers, McGill University, ProjectFinance, A&L Goodbody Consulting, RailPage Australia, Business New Zealand, Government of India



Some challenges hard to express in numbers:

Governance - Living up

to principles:

- Participation
- Decency
- Transparency
- Accountability
- Fairness
- Efficiency

Social equity:

- Access to mobility
- Affordability
- Gender equality



Better roads, better world.⁸



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How does IRF address the challenges?



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Focus Areas



Projects



Advocacy





Why does IRF look at ITS

- Increase of traffic, urbanization, accident, financial bottlenecks, environmental problems
- Vision and Mission & Role of ITS:
Safe, Sustainable and Efficient Roads
- ITS / Smart Technologies to be included in Transport Policies ; new trending developments
 - Vehicle-to-Infrastructure (V2I) communications
 - Intelligent infrastructure



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ITS PC Activities 2012 at ITS World Congress in Vienna Oct 2012



**Launch of IRF Vienna
Manifesto on ITS**



Participation of IRF at
Ministerial Round Table



Special Interest Session
“How to Sell ITS to Politicians”



IRF ITS Policy Committee Meeting



Launch of the IRF Vienna Manifesto on ITS



- Launch during ITS World Congress 2012
- Inception of IRF Policy Committee at ITS World Congress 2008 in New York
- 12 meetings and exchanges during 2009-2011 around the globe
- Key messages gathered in IRF Vienna Manifesto on ITS
- **Manifesto on ITS:**
Positive movement embracing technology to improve quality of transport and thus of life



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IRF Manifesto on ITS

Endorsed by global ITS leaders





The Role of ITS for Sustainable Mobility

IRF Manifesto on ITS



**Sustainable
Mobility and
Transport**

Challenges



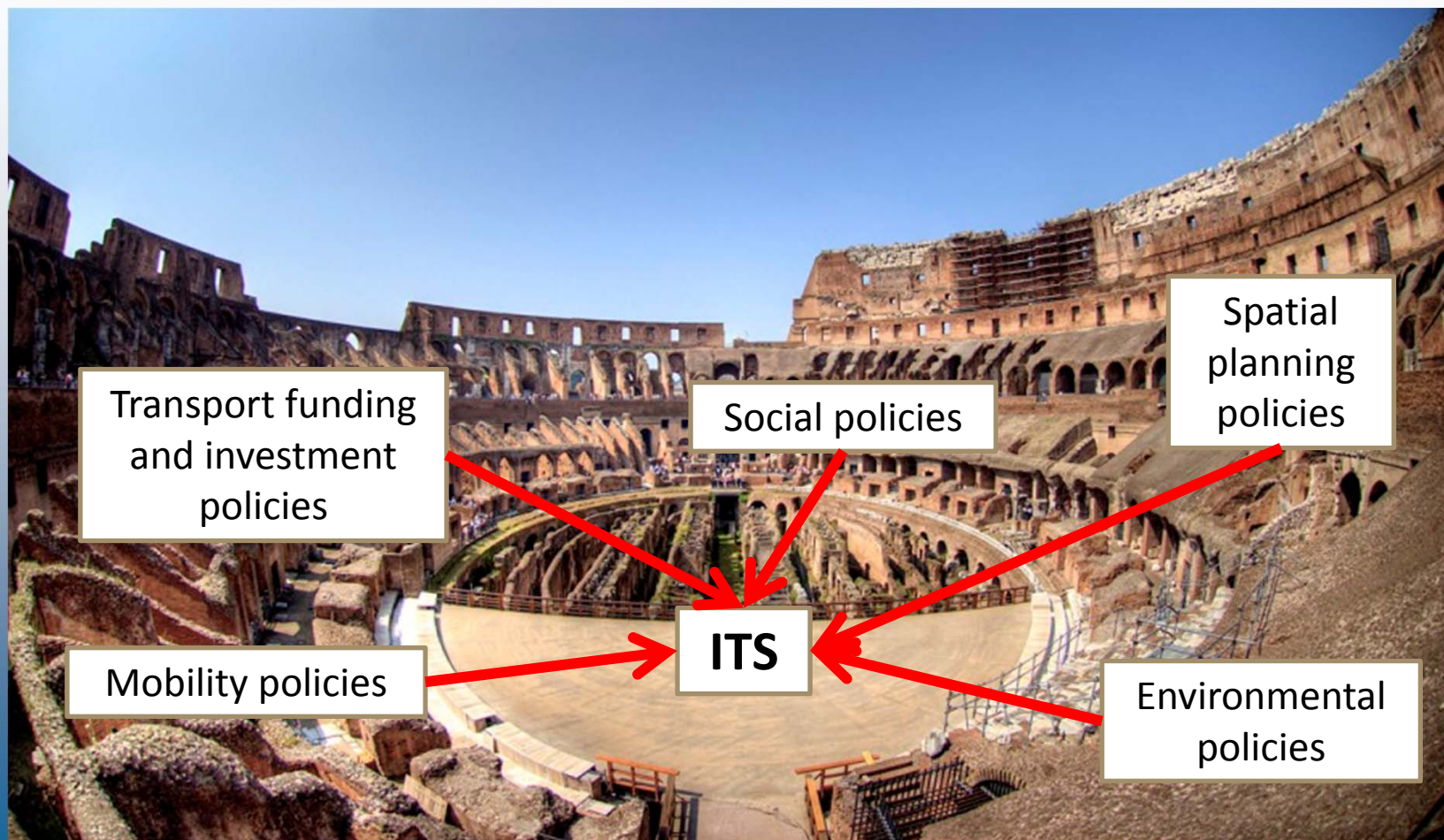


Access to Sustainable Mobility required

- The key: sustainable mobility as **human right**
- Transport and mobility **important enablers** of social and economic development
- Mobility will increase, but **options to expand** transport networks are very **limited**
- ITS : ability to improve safety, efficiency and sustainability



ITS in the Policy Arena





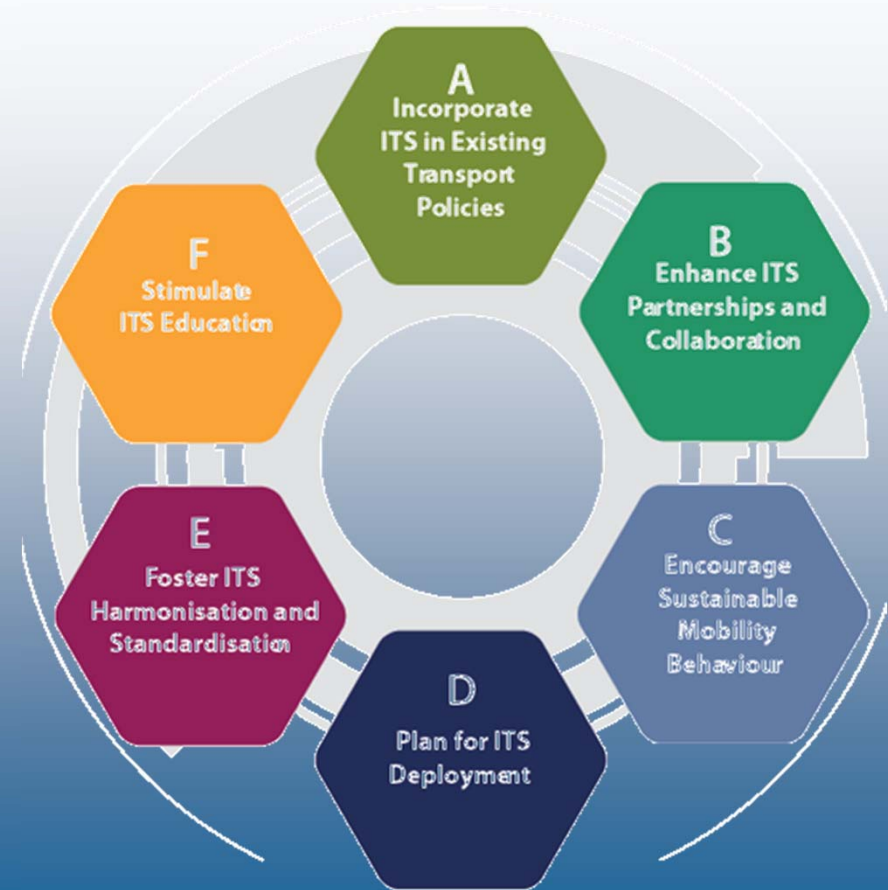
Role of ITS in Sustainable Transport

Safety	Environment	Reducing congestion	Innovation, jobs, business development
<ul style="list-style-type: none">• 3 E's: Education, Engineering and Enforcement• Measures that smoothen traffic flow, improving speed compliance• Incident detection & management & response• In-car driver support & safety tools etc.	<ul style="list-style-type: none">• Modifying people's & vehicles' behaviour rather than restricting demand• Encouragement (incentives) & enforcement• Facilitation of greener choices, awareness raising• Monitoring and comparing impact on emissions of traffic management	<ul style="list-style-type: none">• Knowing the performance of road networks• Managing available road capacity• Offering different paradigm for paying for mobility and funding roads• Provision of tailored real time travel information• Supporting compliance to traffic regulations	<ul style="list-style-type: none">• Networking effect in ITS value chain, leading to job creation• Higher level of innovation, replacing traditional methods for traffic management• Enhanced information exchange, leading to greater cooperation within the market and the creation of new products and services



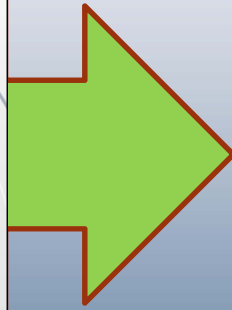
ITS Policy Recommendations in IRF Manifesto

- Smart Technologies are here
- now is the time to commit
- Recognise the importance
- create proper ITS policy frameworks in Road Transport





IRF ITS PC & Manifesto – The Way Forward



Continue the efforts and commitment:

- Active involvement of all Stakeholders
- National initiatives to address ITS policy
- Joining forces and collaboration with stakeholders
- International Forums and Organizations
- Workshops
- Distribute Manifesto in **your** Network



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IRF ITS Policy Committee Calendar of Events 2012 / 2013



TTS Italia / IRF Workshop “Fostering ITS Policy”

- 5 December 2012 – Bologna, Italy
- In conjunction with TTS Italia/Club Italia Nuovo Mondo conference



ITS Arab / IRF Workshop “ITS Deployment in the MENA Region”

- 20 March 2013 – Marrakech, Morocco
- In conjunction with IRF Regional Conference North Africa & Mediterranean



European IRF Workshop on ITS Policy Deployment

- 25 April 2013, Brussels, Belgium
- In cooperation with ERF – European Road Federation



Asia IRF Workshop on ITS Policy Development

- 11-12 September 2013 – Singapore or Hong Kong, China



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**Get YOUR copy
of the IRF Manifesto on ITS on
www.irfnet.ch
and forward it to your community !**

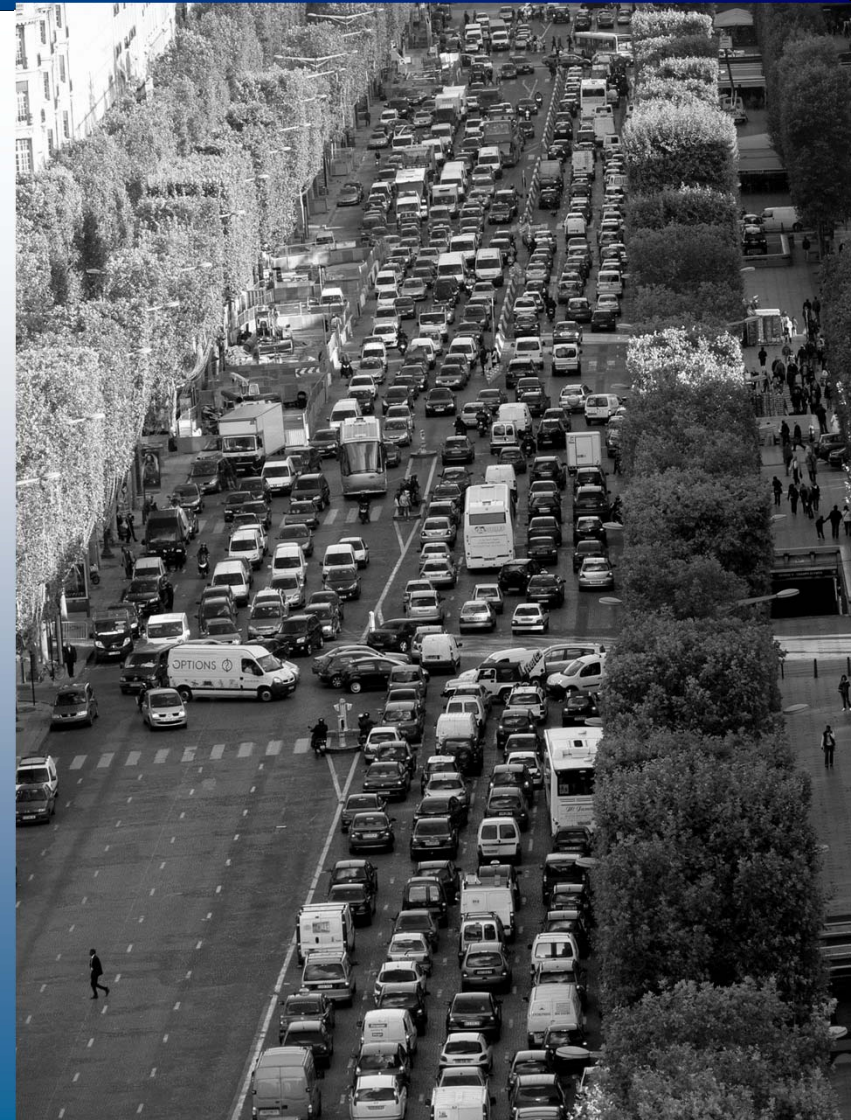




Conclusions



- Intelligent Transportation Systems solve challenges in Road Transport: Financing, Environment, Congestion, Road Safety
- ITS has high return of investment
- ITS technologies exist, ready for use
- ITS needs to be included in Transport Policies



From Doomsday to Paradise

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Think of Sustainable Mobility as an Opportunity !

Josef A. Czako

Vice President, International Business Development
Chair, IRF Policy Committee on ITS



Kapsch TafficCom AG

Am Europlatz 2 | 1120 Vienna | Austria

Phone +43 50 811 2150 | Mobile +43 664 628 2150

Mailto: josef.czako@kapsch.net

www.kapsch.net