

Intelligent Transport Systems

Trends, Advancements and Best Practice in Europe

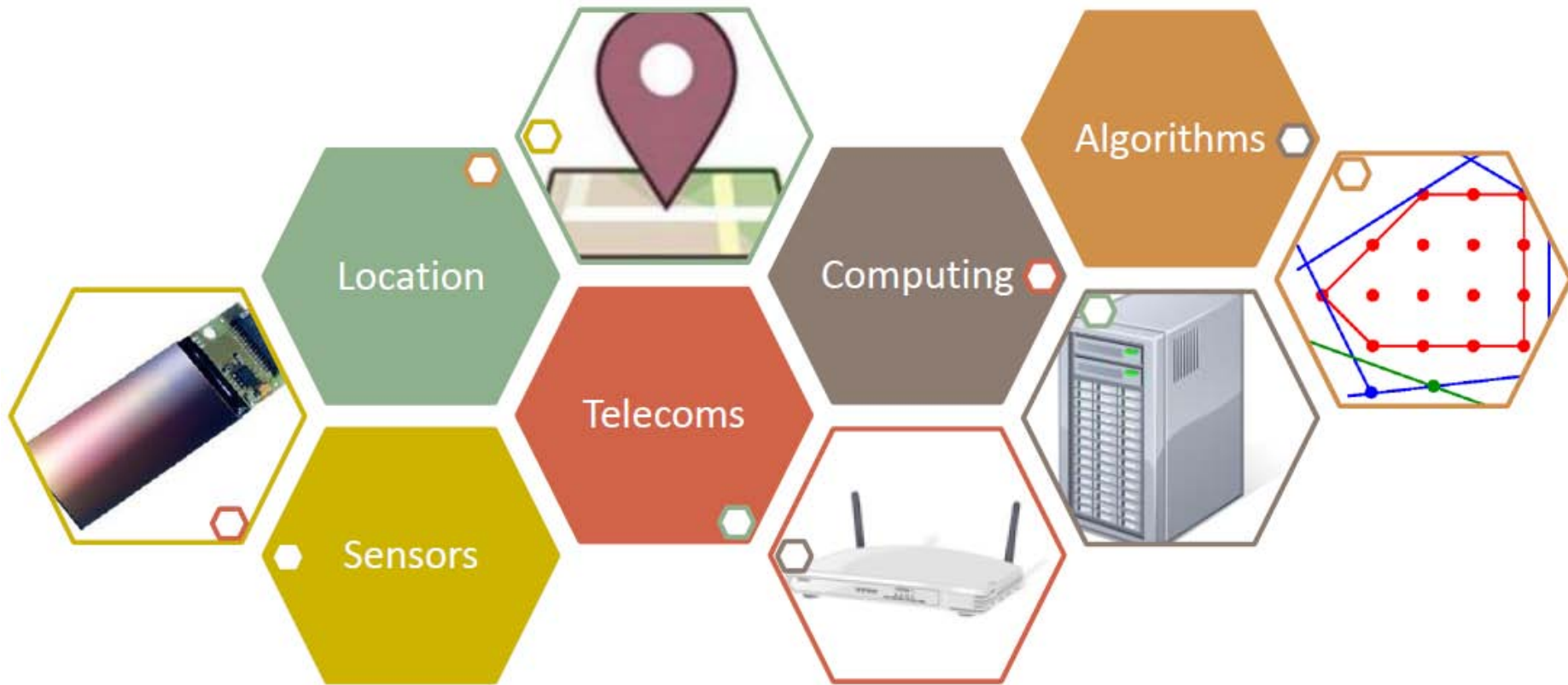
Ing. Antonio Violi

UNIVERSITÀ DELLA CALABRIA





ITS Technologies



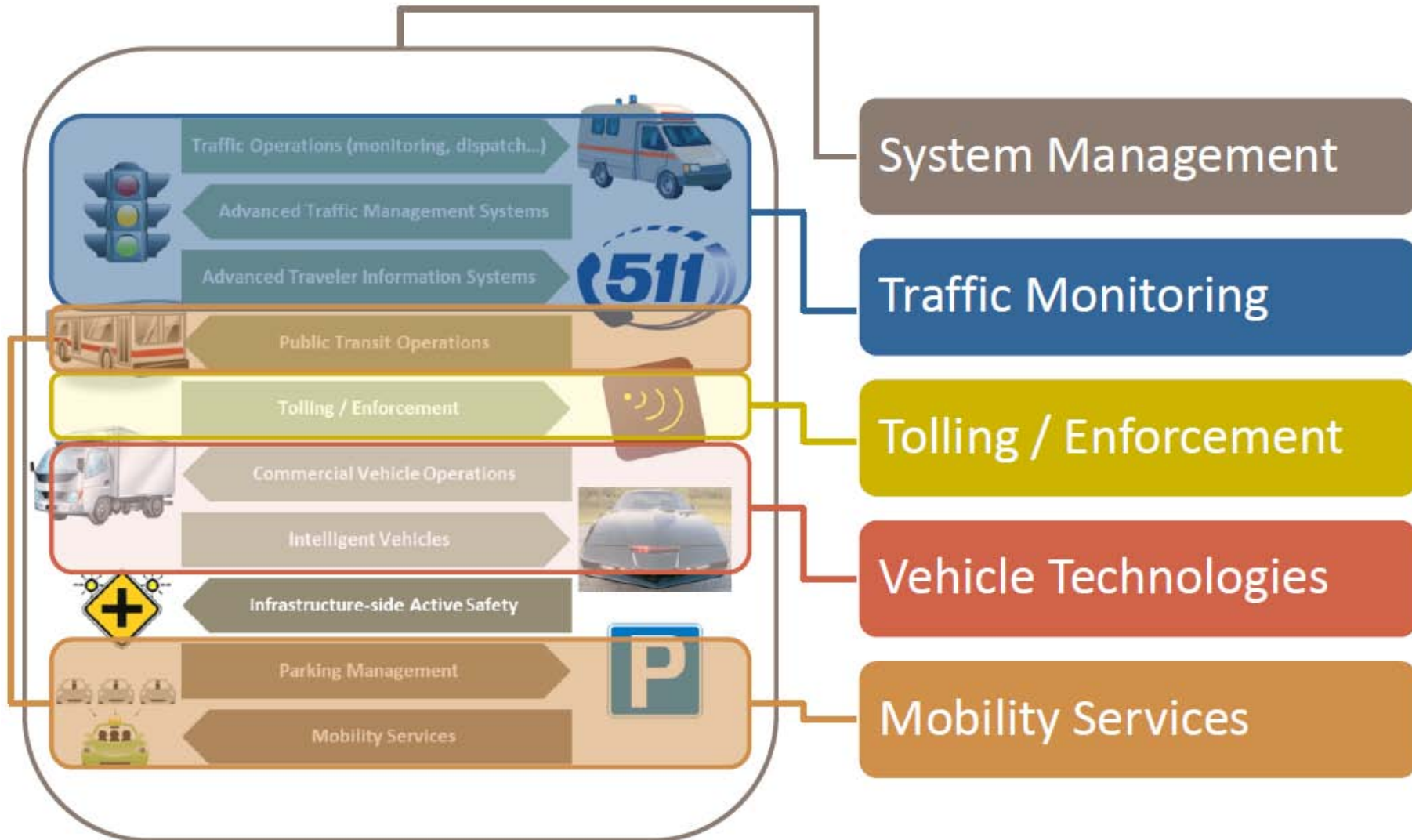


ITS Applications





Main Areas





Traveler Information (Infomobility)

511 On the phone. 511 On the web. 511.org On your way.

SF Bay Area TRANSPORT TRAFFIC TOLLS BICYCLING 511 INFO LINKS

Travel Tools and Info

TransLink is here!

For AC Transit and Golden Gate Transit & Ferry. Discount fares available!

Get your TransLink card now.

FASTRAK

Get your FasTrak toll tag at select Costco and Safeway locations today.

Apply Now

Looking for a company on your bike ride to work? Find a BikeBuddy!

511 Promotions and Features

PLAN YOUR DRIVING TIME NOW

Losing money at the pump? Calculate the costs of driving solo.

511 PHONE TIP: Press 0 to use touchtones if you are in a noisy area. CLICK HERE FOR MORE TIPS.

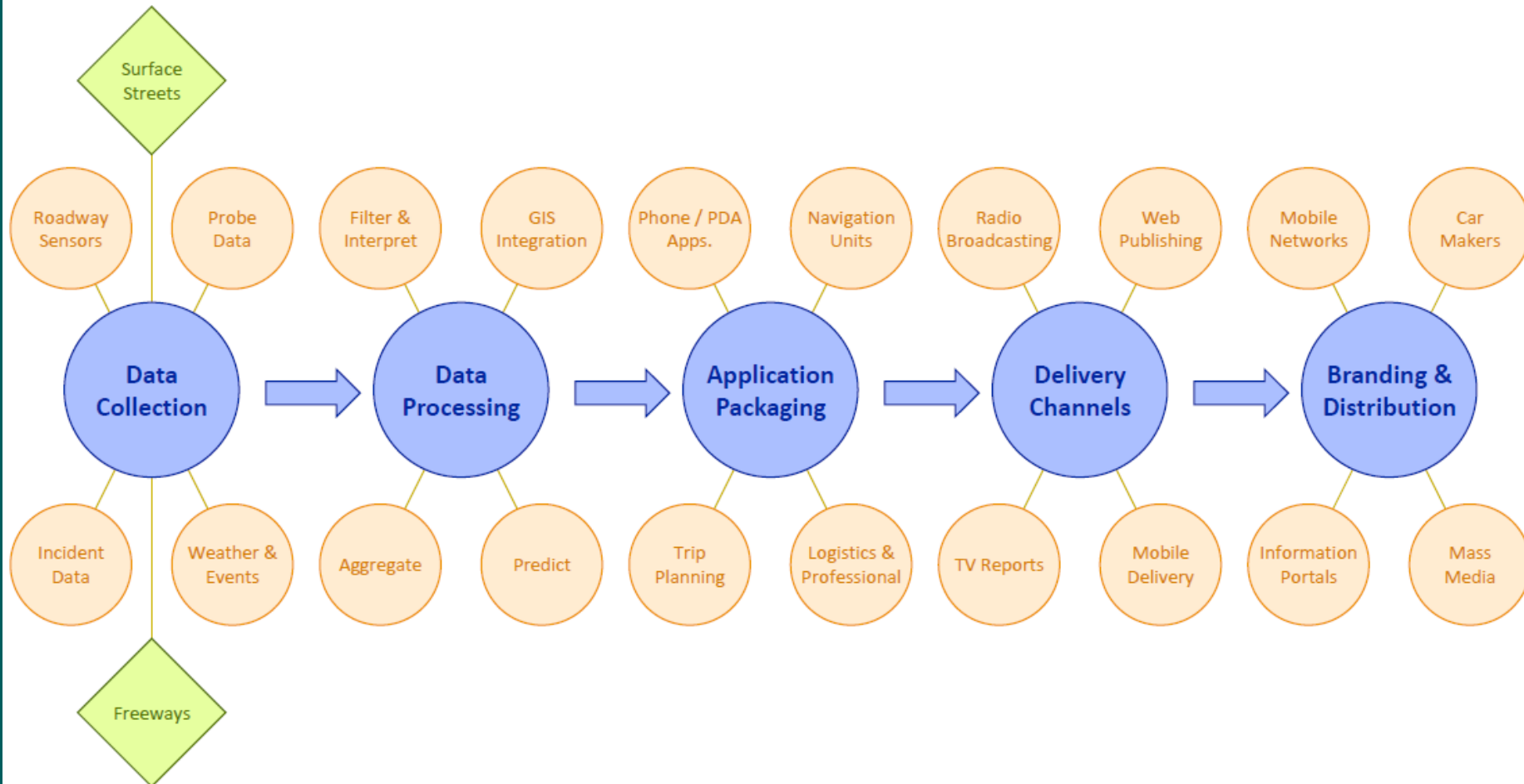
RIDE TRANSIT FREE

on the first 4 hours of the weekday.





Infomobility & Traffic Information





Emerging issue: Information Quality

- ❑ Traffic information has become abundant but quality remains seldom monitored/addressed
 - ❑ End users are relatively clueless about information quality
 - ❑ Margins of error are not well understood and used in practice
 - ❑ There are no widespread metrics or evaluation procedures to measure data quality
 - ❑ Harmonized benchmarking methods would benefit both suppliers and customers
 - ❑ Improved consistency and fairness of evaluations
 - ❑ Lower overall costs by eliminating duplication of efforts
 - ❑ Better recognize true value-added and pull quality upward
-



New models

Crowdsourcing

Mobile Development



SMS Service
Provides arrival information.
For phones with text messaging



Transicast
Searches for nearest stops, provides arrival information, and shows vehicle locations on a map.
For Android



Transit Board
Displays arrival information intended for use on full-size computer screens or kiosk displays.
For web browsers



See where it takes you.



Transit Maps
Displays public transit routes.
For web browsers



Transit Surfer
Provides arrival information.
For mobile web browsers



Transit Time Map
Displays how far you can travel on public transit from a given location in a certain amount of time.
For web browsers





Best practices

- ❑ Wien
 - ❑ Turin
 - ❑ Amsterdam
 - ❑ Barcelona
 - ❑ London
-



Wien 1/2

- ❑ According to Siemens and MRC McLean Hazel Wien is the «first European Smart City»
- ❑ Wide and Reach Infrastructure Network
- ❑ 937 km
 - ❑ 5 Metro Lines
 - ❑ 28 Tram Lines
 - ❑ 90 Bus Lines
- ❑ ITS to coordinate all the mobility services





Wien 2/2

- ❑ Project «Complete Mobility»
 - ❑ Free App to be downloaded from the city web site
 - ❑ Information on bus/tram/metro schedules, real time data about the state of those services, possible problems occurred, etc.
 - ❑ Booking and Pay through smartphone
 - ❑ Platform EKV 3300
 - ❑ Ensure a better V2V and V2I communication for enhance efficiency and security of the traffic network
 - ❑ Give to users news on accidents, particular traffic situations, «seconds for green light» on the traffic lights.
-



Turin

- ❑ ITS provided by the company 5T
 - ❑ Subsystem for traffic monitoring (every 5 minutes)
 - ❑ Subsystem for infomobility on public transport services
 - ❑ Subsystem for real time information (through SMS or via web) about traffic conditions, free parking slots, etc.)
 - ❑ Subsystem for traffic management (priorities for public vehicles, traffic light management, etc.)
 - ❑ Subsystem for parking slots management



**Tecnologie
Telematiche
Trasporti
Traffico
Torino**

Intelligent Transport Systems

Trends, Advancements and Best Practice in Europe

Thank you

UNIVERSITÀ DELLA CALABRIA

