

company profile, offering, projects









Company Profile

 Kiunsys offers integrated HW-SW-RFID technologies for Smart Urban Mobility, Smart Parking and City Logistics

Outcomes

- 2014: University of Pisa Spin off
- 2014: UE sales agreement with Deutsche Telekom AG
- 2014: more than 600,000 UHF RFID Mobility Pass distributed
- 2013: admission to TTS Italia Italian ITS Association
- more than 10 R&D projects











A suite of products to make...



Solutions (1/2)

Solution	PARKING APP MANAGEMENT	FREE PARKING MANAGEMENT	APPS AND SENSOR MANAGEMENT	PUBLIC PARKING MANAGEMENT	
Brief Description	 Use of Tap&Park to find and pay for available parking places. Enables law enforcement to track legal occupancy of parking places. 	 Equips public parking spaces with sensors. Uses Tap&Park to find available parking places through the use of sensors. 	 Equips public parking spaces with sensors. Uses Tap&Park to find and pay for available parking places using sensors. Enables law enforcement to track legal occupancy of parking places. 	Manages any kind of parking policy in regulations issued by a city. Uses RFID to integrate parking permit management and monitoring. Cities willing to digitally manage all aspects of their parking services.	
Use Case Scenario	Cities willing to digitize the management of parking payments without excessive investments.	Cities willing to have real time knowledge of free parking availability.	Cities willing to digitize the parking payment process and monitor in real time parking availability.		
Hardware Components					
Parking sensors		V	√	/	
Data collector		1	1	1	
RFID cards	7			√	
RFID gates	7	7			
RFID reader					
Software Components					
Manage parking spaces	√	√	√	√	
Manage permits				√	
Analyze mobility data					
App for drivers	√	✓	/	√	
Regulation enforcement	√		/	/	

Solutions (2/2)

	COMMERCIAL / OFF-STREET			
Solution	PERMIT MANAGEMENT	DYNAMIC PERMIT MANAGEMENT	PARKING AND MOBILITY MANAGEMENT	COMMERCIAL PARKING MANAGEMENT
Brief Description	 Uses RFID based card management. Enables law enforcement to track and monitor use of permits with portable devices. Allows citizens to use Tap&Park. 	 Uses RFID based card management. Uses RFID gates to track mobility of driver categories across city areas. Enables law enforcement to track and monitor use of permits with portable devices. Allows citizens to use Tap&Park. 	 Monitors how categories of parking permit owners use their permits moving across the city. Uses RFID gates to track mobility of driver categories across city areas. 	 Integrates different modules in existing infrastructures to optimize information on occupancy and increase efficiency. Uses RFID technology to improve customer service and retention.
Use Case Screnario	Cities needing to digitize management of parking permits for businesses and citizens	Cities needing to digitize and monitor in real time the management of permits issued to businesses and citizens	Cities willing to digitally manage and monitor in real time all aspects of their parking services	Businesses willing to digitize the management of their commercial parking services
Hardware Components				
Parking sensors			√	√
Data collector			✓	1
RFID cards	√	√	✓	1
RFID gates		/	✓	V
RFID reader	√	√	√	
Software Components				
Manage parking spaces			√	√
Manage permits	√	√	√	1
Analyze mobility data		1	√	/
App for drivers			√	✓
Regulation enforcement	√	_	1	



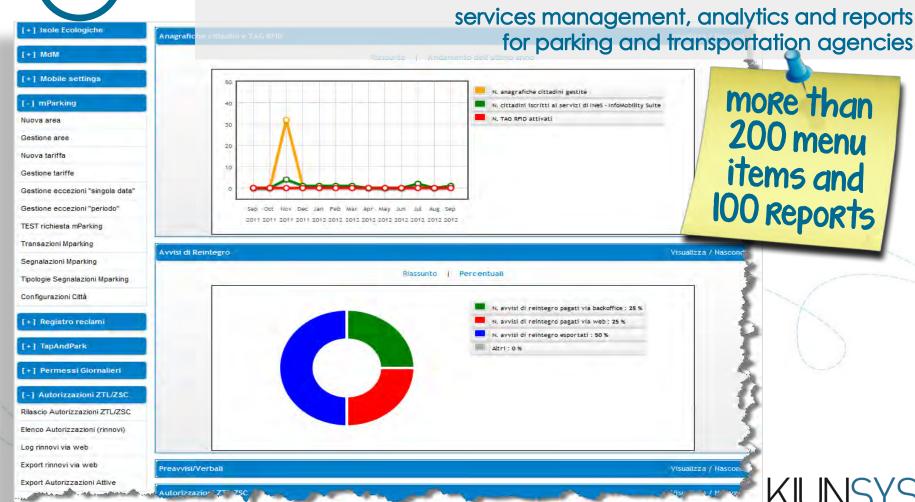
INeS CLOUD | front end

e-gov services for citizen and companies: information, payments and direct management of own services



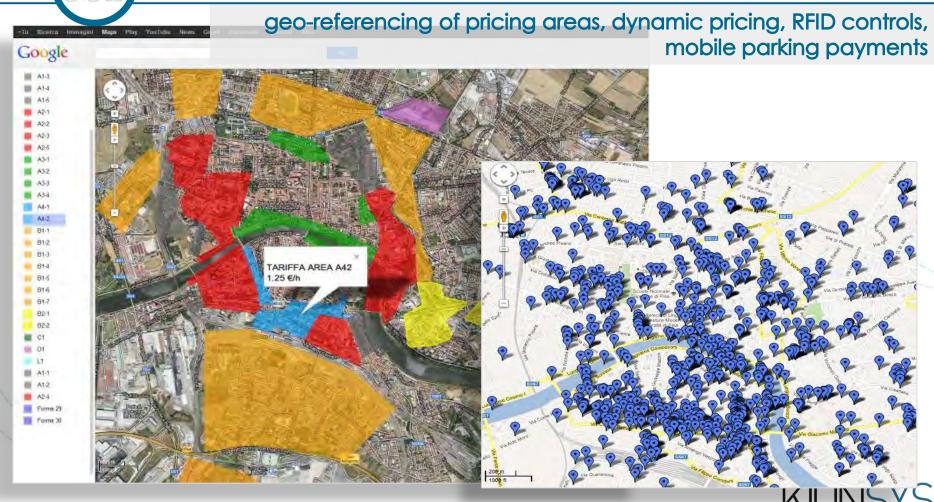


INeS CLOUD | back end



INeS CLC

INeS CLOUD | back end





MOBILITY PASS



passive UHF RFID transponders for identification of vehicles, disabled, commercial vehicles, goods and any other city assets





MOBILITY PASS



paper badge with passive UHF RFID + QR Code + barcode + serial number





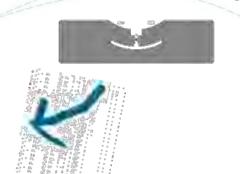
Disabled Blue Badge

EU Recommendation 98/376/EC Italian Government D.P.R. July 30, 2012, n. 151

 the European Disabled Blue Badge can be provided with an electronic chip in order to prevent any counterfeiting activities: no more intrusions in the LTZ, no more illegal parking in the reserved parking area for disabled



RFID tag inside disabled blue badge







TAP&PARK + TAP&PARK Advertising



parking payments, infoparking, geo advertising

PARK



SEARCH



REMIND



GEO ADV







TAP&PARK Analytics

geo analysis: parking information collected by Tap&Park





LAW ENFORCEMENT

Identification (by plate number or MobilityPass reading), integrated with INeS CLOUD for controls and fines

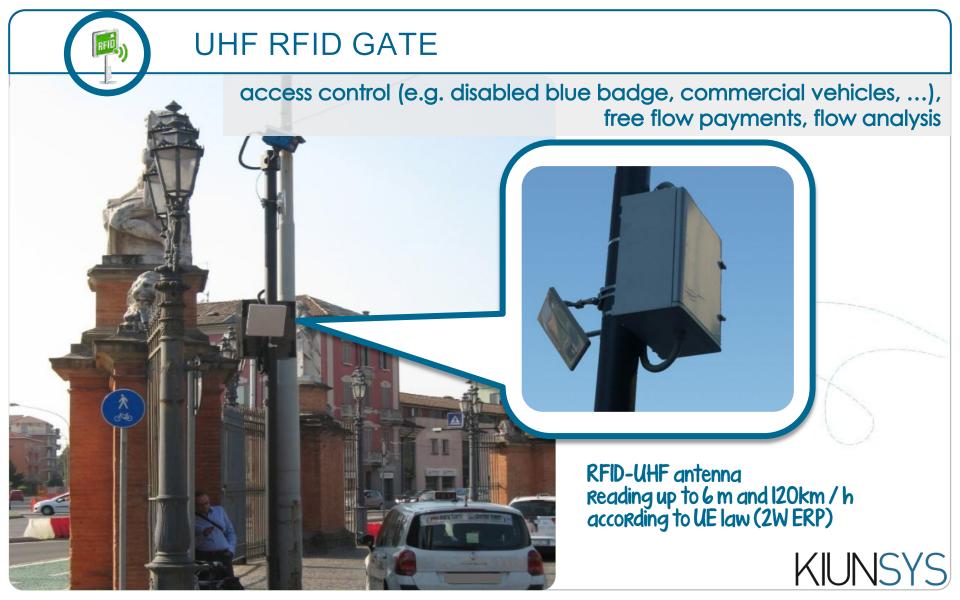


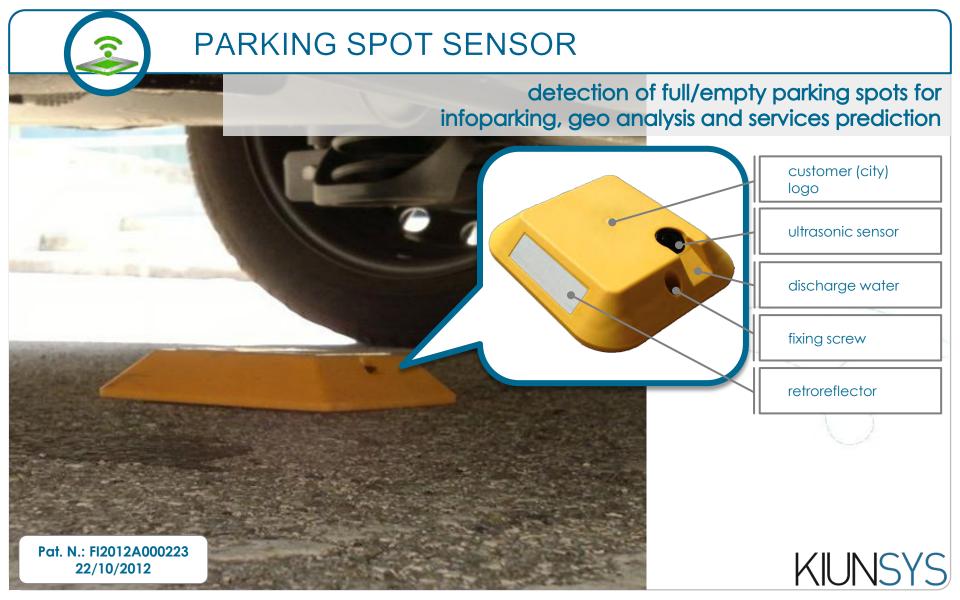




Rugged handheld



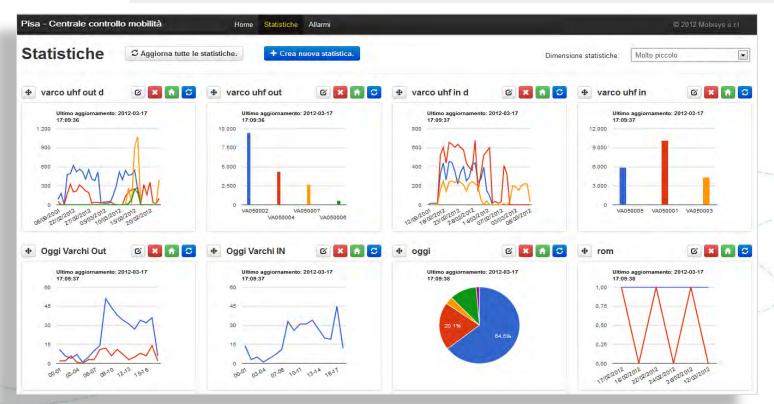






INeS Cloud – Analytics (1/2)

big data analysis collected from UHF RFID Gates and Parking Spot Sensors



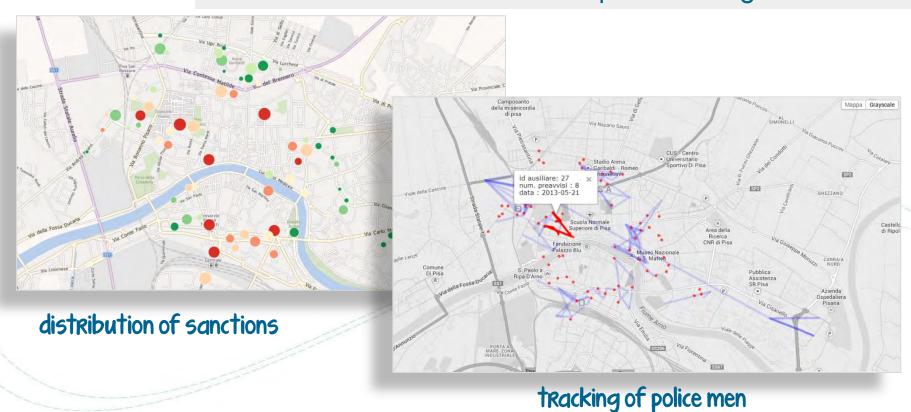
Traffic dashboard: sensors, flows and gates





INeS Cloud – Analytics (2/2)

big data analysis of law enforcement smartphone readings and sanctions







GOVs and Traffic Agencies: benefits overview

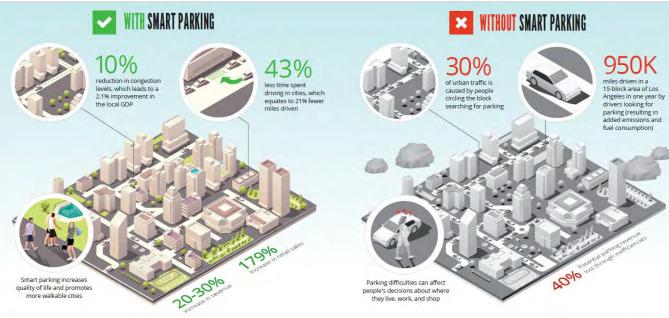


Parking Matters*1 An increasing number of cities are re-thinking parking by taking advantage of the revolution in technology, innovation, and sustainability that has transformed the industry during the past few years.

Smart parking is where technology, economics, and the customer experience converge to create more livable, sustainable communities. Collaboration between parking experts and decision-makers early in the planning phase of any project can reap big rewards.

Smart parking can include:

- Credit card accepting payment technologies
- Pay-by-cell functionality
- Parking guidance technologies
- Real-time data and analytics
- Sustainable technology, design, and innovation
- Real-time and predictive enforcement and collections
- Demand-based pricing



Smart parking helps if you're constrained by existing resources, limited budgets, and aging infrastructure. Here's why:

248 Million

Number of cars and light trucks on the road in the U.S., third quarter, 2013

95%

Amount of a car's life spent sitting in a garage, lot, or parked on the street

90%

Growth in the number of registered vehicles in the U.S. since 1970

\$121 Billion
Total cost of traffic congestion in 2011

Sources:
2010 Binleging Therdal in Parking Report, Informational Parking Institute
2010 Libra Medicity Report: Recur Adult Transportation menture
2010 Libra Medicity Report: Recur Adult Transportation menture
2011 Libra Medicity Recurs Adult Transportation menture
2011 Libra Medicity Recurs Adult Transportation Medicity Recurs Adult Transportation Adult Adult Transportation Parkins Transportation Parkins Clade Report, SMA 2011
3. Smaller Transportation System System SMA 2011
3. Smaller Transportation System SMA 2011
3. Smaller Transportation System SMA 2011
3. Smaller Transportation SMA 2011
3. Smaller Transpor











GOVs and Traffic Agencies: intangible benefits

investment and OPEX cost reduction

- cloud architecture: no investment in ICT infrastructure
- Kiunsys' technologies and skills: rapid roll out of the project

management cost reduction (saving)

- more than 200 menu items and over 100 reports
- financial analytics
- high reduction in paper
- less staff at the counter
- complaints reduction

interoperability

• rapid integration with third-part systems: municipal registry, LTZ gates, parking meters, etc.

real time control and monitoring

- full/empty parking areas
- thanks to MobilityPass, detailed origin-destination matrices (Mobility Pass)
- productivity of personnel at the counter and parking enforcement



GOVs and Mobility Agencies: economic benefits

	KIND OF BENEFIT	ECONOMIC BENEFIT
parking meter	- TCO reduction	
permits management	- Cost saving with dematerialization based on e-services	
complaints management	- significant complaints reduction	
personnel at the counter and parking enforcement	- Monitoring productivity	
parking meters revenues	- Grow revenues due to accurate street controls	
trafic and environement	- reduction of citizens at the counter : up to -60% - reduction of veichles trafic and CO2 - compliant with Italian Gov Directive for ITS diffusion - compliant with UE Directive 2010/40/UE	4
Return on Investment	- aprox. 1 year	~ € 500.000/y

Hypothesis

- citizens: aprox. 100,000
- Traditional management
- Tecnologies rolled out: INeS + PSS + Gate + smartphone + 5 ys maintenance



Contacts



www.infomobilitysuite.com info@infomobilitysuite.com









