





Innovation for Change

Young Talents | Real Challenges | New Technologies



Ministero dello Sviluppo Economico

CO₂ reduction and air quality improvement in urban areas



«Air Quality at urban level should be a value for every single citizen»

«Stressing too much only one technology may be not beneficial to address the problem»

«A single field solution does not solve the problem»









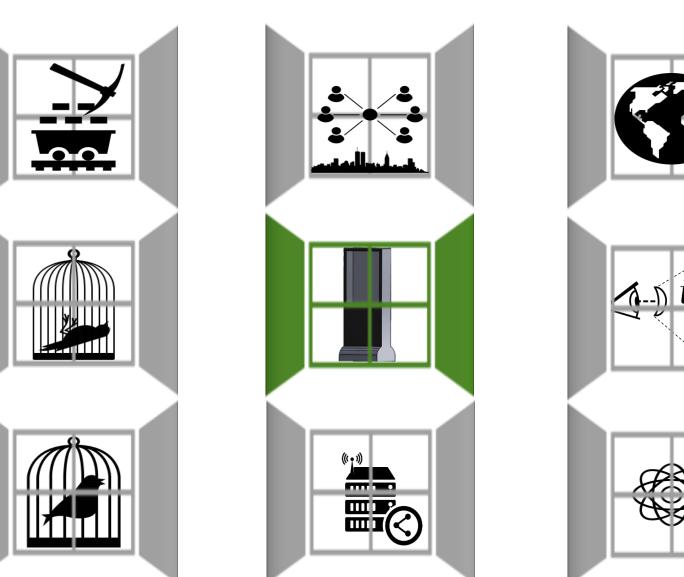
Our vision

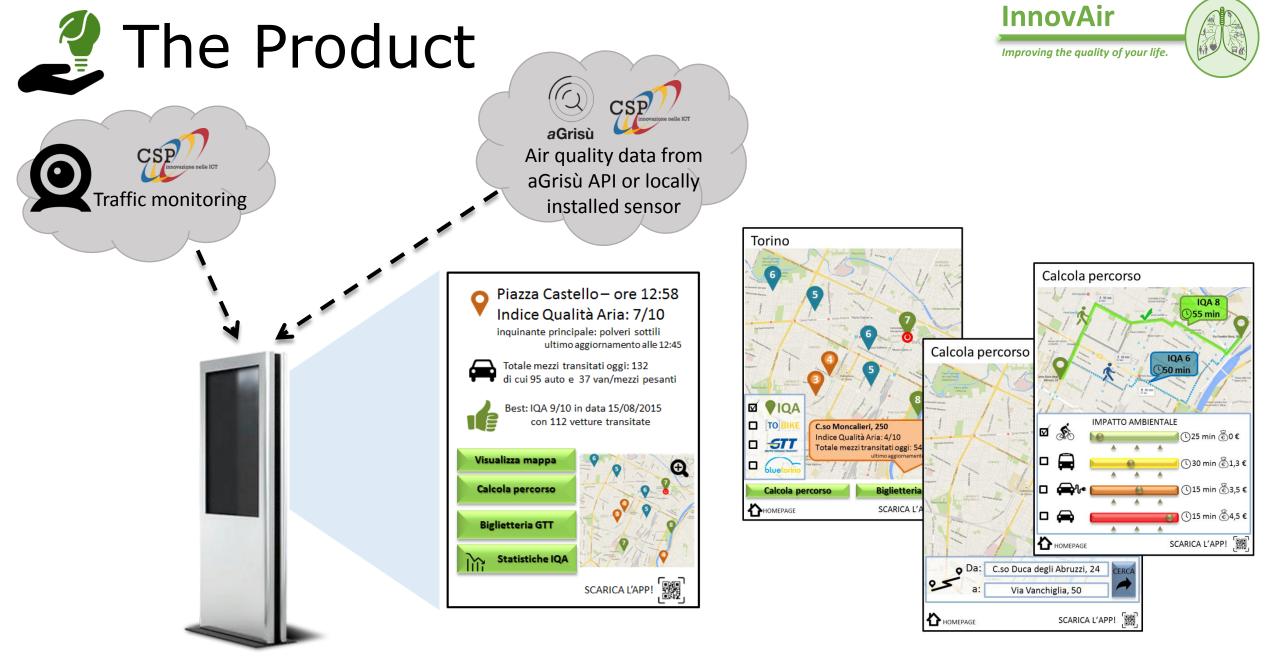
InnovAir Improving the quality of your life.

Super - system

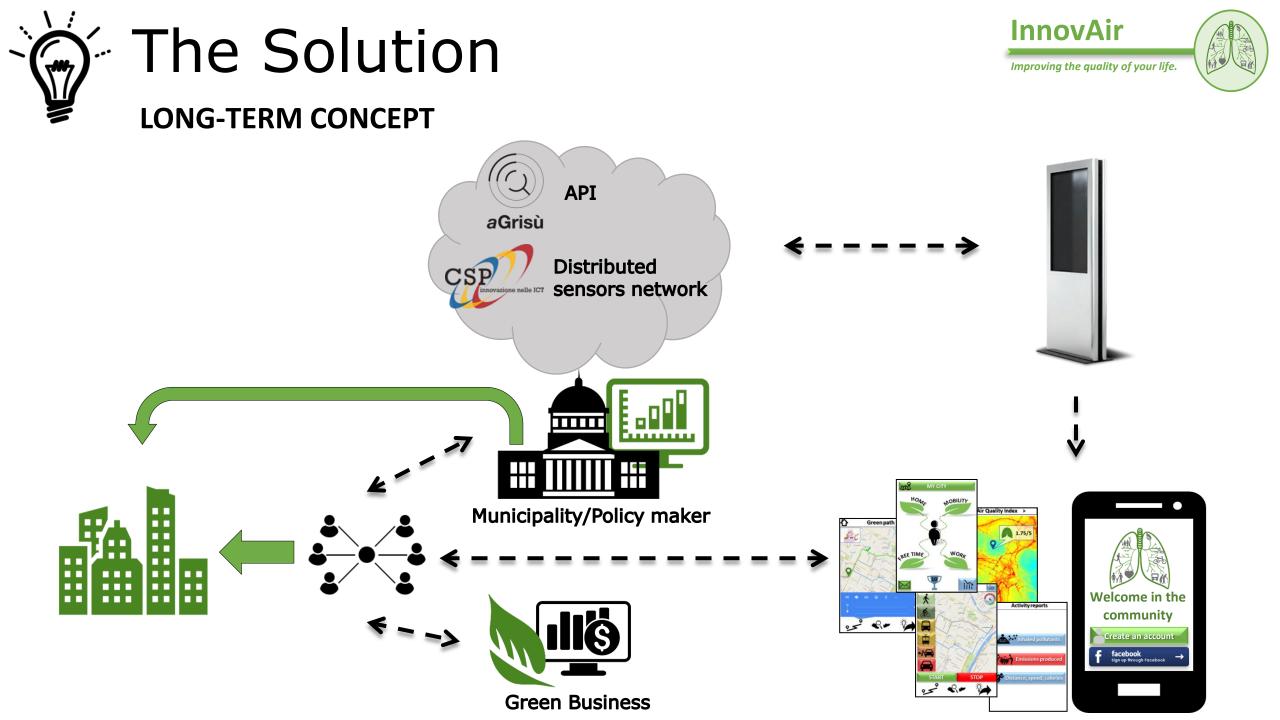
System

Sub - systems





A SERVICE TO CITIZENS TOWARDS SMART CITIES.





People's voice INTERVIEWS AND QUESTIONNAIRES

Interviews & Survey

Key Evidence

- 30+ face2face interviews in Turin
- 100+ online questionnaires (*Turin, Milan, London, Madrid..*)

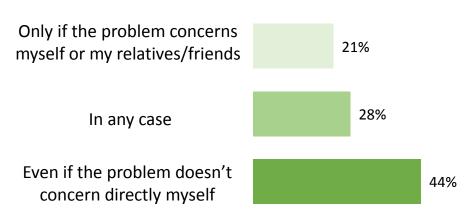
Key Evidence



value important to inform citizens about air quality issues

Key Evidence

Could you reduce some personal comfort to solve common problems?



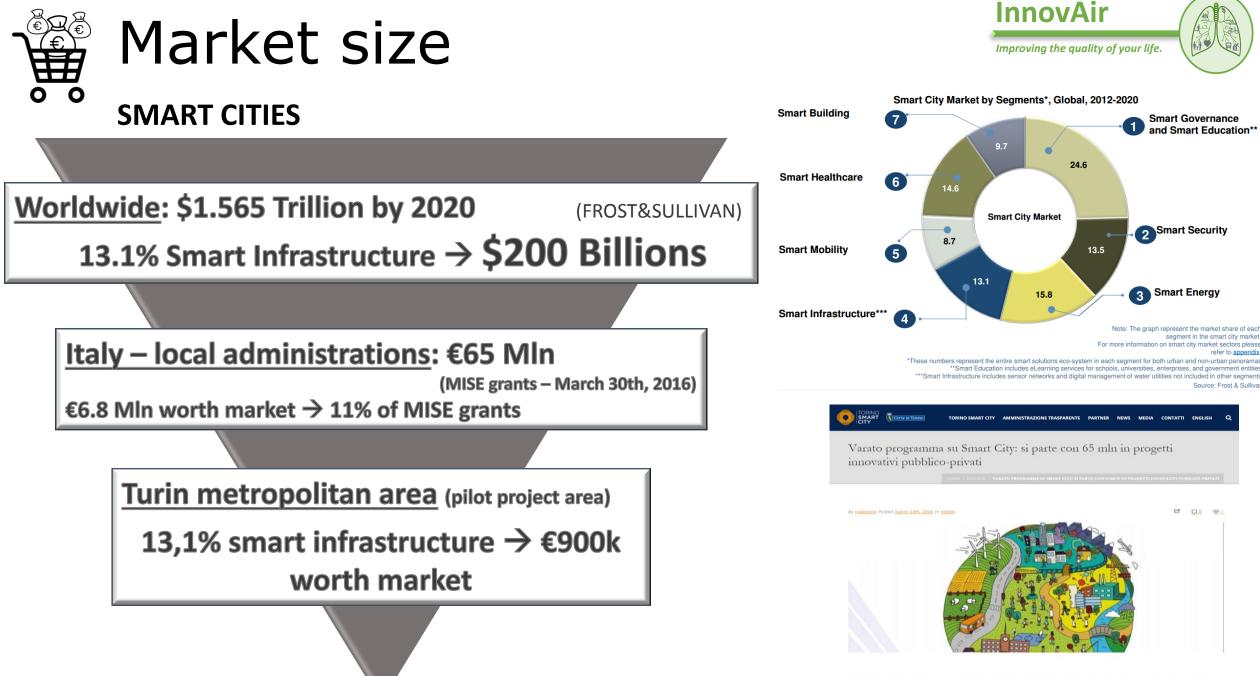


citizens are not aware of the problem

Key Evidence

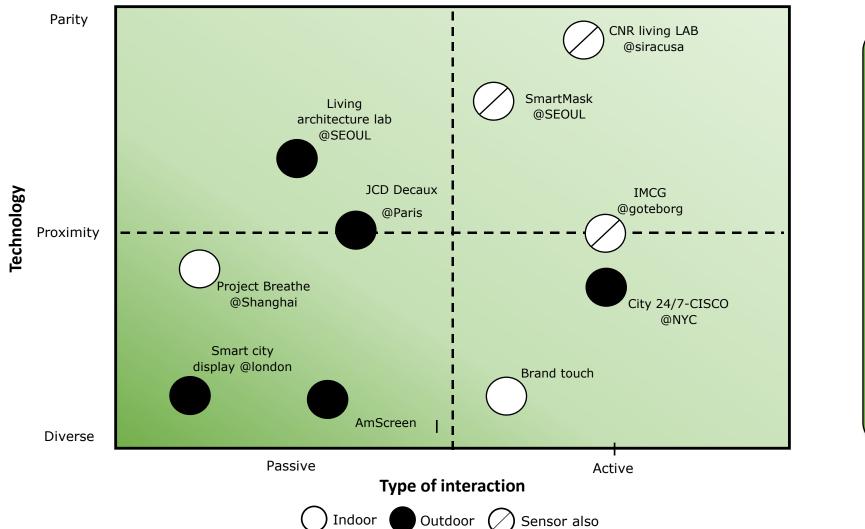


Government don't do enough to improve the air quality



Con una dotazione iniziale di 65 milioni e con la firma, da parte del Ministro Federica Guidi, dell'Atto di Indirizzo in materia di Smart City viene Ianciato il primo programma di intervento del Ministero dello Sviluppo Economico per le Città Intelligenti.

Competitors Assessment





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VALUE PROPOSITION	Increase the number of users of public transport means (bus, bike sharing,) by enhancing citizens' awareness on air pollution issues.
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COST STRUCTURE



VALUE DRIVEN BUSINESS MODEL

- Our business model is not focused on minimizing the totem features cost but on developing the best features in order to maximize the benefits that will involve all the citizens
- The costs are calculated one-year period



GO TO MARKET COSTS



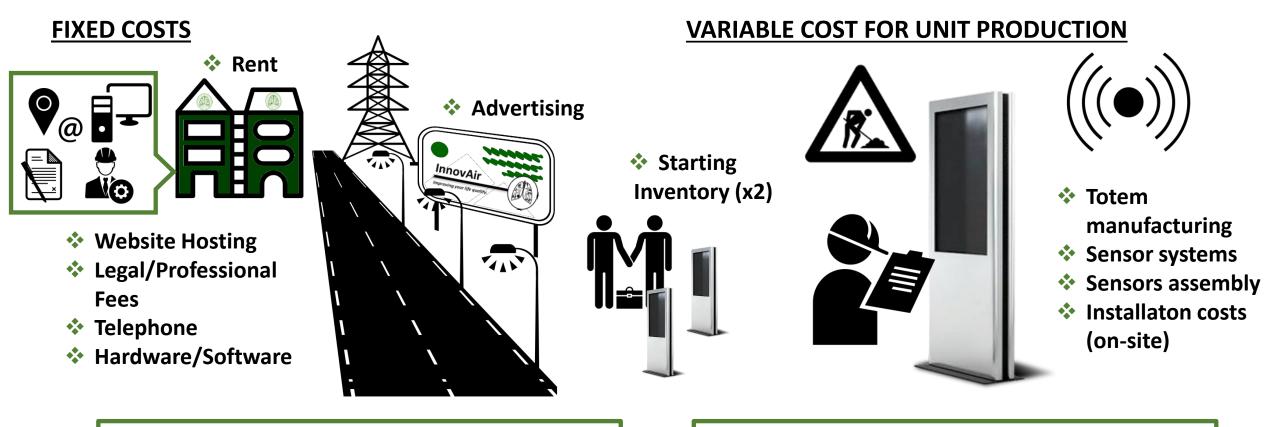
Hardware/SoftwareStarting Inventory

- Website Hosting
- Computer Hardware/Software
- Basic Website





COST STRUCTURE



TOTAL FIXED COST: 26.000 €

TOTAL VARIABLE COST: 5.600 €



REVENUE STREAM: Totem



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Totem selling price to local governments:

7.000 €

REVENUE STREAM: APIs servicesPrivateOur Plans:- 30 days trial period- Up to 100k calls daily- Up to 1000 calls- Up to 100k calls daily- Price per call: 0,02 €- Vp to 100k calls daily







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BACKUP





+ 50.000 €

....To manufacture 2 ready-to-use totemans & set-up the business



Pay Back Time and Business in profit....

Azienda	Tech	Revenue Mln €	Description	Website	Stato InnovAi	Project Active
IMCG	Smart screen	Città di goteborg	Interactive screen that shows energy consumption of the city (Gothenburg)	http://imcg.se/en/project/inner- citys-energy/	On the market	YES
Smart city displays	Passive screen	Solo le fermate di londra	Screen at bust stops that shows schedule	http://smartcitydisplays.co.uk/	In the market from Jan 16 at bus stops in London	YES
City Lights - steles LED	Passive screen		Non uno schermo ma un semplice espositore	https://www.architonic.com/it/pro duct/burri-city-lights-steles- led/1027353	On the market	YEs
JCDecaux	Active Screen	2463	DigitalTotem: cultural activites&municipal Green bus stop – greenrooftop + wifi + charging	http://www.jcdecaux.com/en/Ne wsroom/Press- Releases/2012/JCDecaux-tests-six- Intelligent-Street-Furniture-items- following-the-invitation-to-submit- projects-by-the-Paris-City- Authorities	On the market (2012 in Paris)	Yes in 2012
Amscreen	Screen for adverst		Screen for adveristing with CLEARCHANNEL	http://www.clearchannel.it/it/ho me.aspx	On the market	YES
City 24/7	Interactive screen wtih CISCO		Smart screen that shows latest local news	http://www.cisco.com/c/dam/en_ us/about/ac79/docs/ps/motm/Cit y-24x7_PoV.pdf	Out of the market	NO from 2012
KateSpade	Screen out of shops where you can buy from			http://laughingsquid.com/kate- spade-in-new-york-city- introduces-several-24-hour- interactive-window-shops/		
Smartmask	Mask filter and measure air quality + app		Filter+ air quality measure goes to app	http://www.bbc.com/future/story /20130307-smart-mask-maps- polluted-streets	On the market	YES

Azienda	Tech	Revenue MIn €	Description	Website	Stato	InnovAi	Project Active	
Project BREATHE	Totem with filtration system for Indoor		Totem for INDOOR AIR QUALITY that shows level of quality	http://www.purelivingchina.com/2 014/11/project-breathe-makes- waves-and-clean-air-at-workplace- fm-asia-summit-shanghai/		mproving the quan	y oj your nje.	C.
Unitech	Air quality measure with sensors (also PM)		Air quality sensor system (all)	http://www.unitec- srl.com/site/products/etlone/				
CNR	Sensori fissi (installati sui totem turistici) e mobili+app		Sistema integrato sulla città per monitoraggio e app qualità aria a siracusa	http://www.sensorwebhub.org/?p =11911				
Living architecture lab	Facade that shows pollution in the different neigh.		The air quality is measured in real time and used to light up in different ways facade	http://www.livinglightseoul.net/				



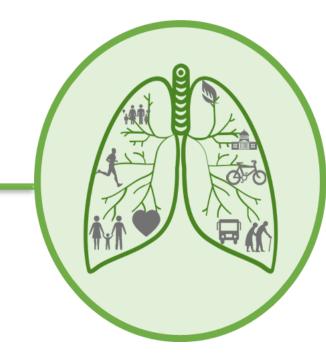
TOTEM PROVIDER

Azienda	Tech	Revenue MIn €	Description	Website	Stato	Project Active
ARACAST			DS Totem Air Bilateral totem	http://aracast.com/totem- landscape-seriea/		
IPMASD	Totem provider		Retual totem	http://www.ipmasd.com/en/tote ms/198-retual-digital-totem-crk- 147-47.html		
Infinity solutions	Interactive totem provider		Provide mobility+restaurant	http://infinitysolutions.ch/PRODO TTI/index.html		
Pandora philisophy	Totem provider		Totem and software solutions	http://www.pandoraphilosophy.it/ it/Totem_Interattivo/		
Temas	Totem provider			http://www.temasteknoloji.com.tr /en/terra-touch-totems/		
Totem Touch- Screen Kiosks			Car dealer			
Brand touch	Totem provider		Mall applications: mall, museum, hotel welcome point	http://brand-touch.com/		





Improving the quality of your life.







AIR QUALITY IN THE CITIES



400'000+ premature deaths in Europe every year

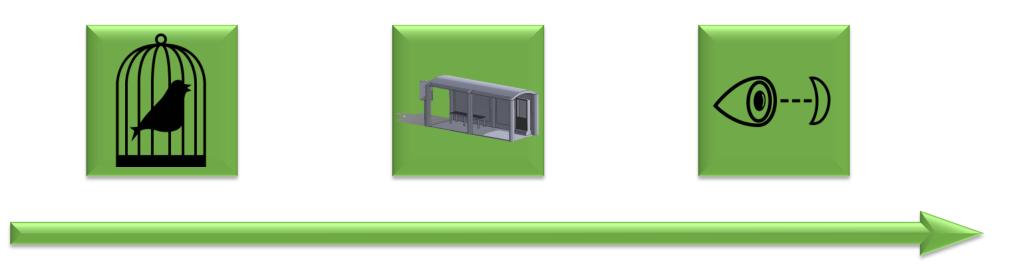
(EEA, 2015)

A 10-40% reduction of key air pollutants is estimated to bring a net welfare gain of 34 to 48 billion euro for 2020 (Nam et al, 2010)

Lack of information and awareness by end users as to the efficacy of abatement technologies is a major barrier to exploitation of market ready technologies. (EPEC, 2011)

Our vision



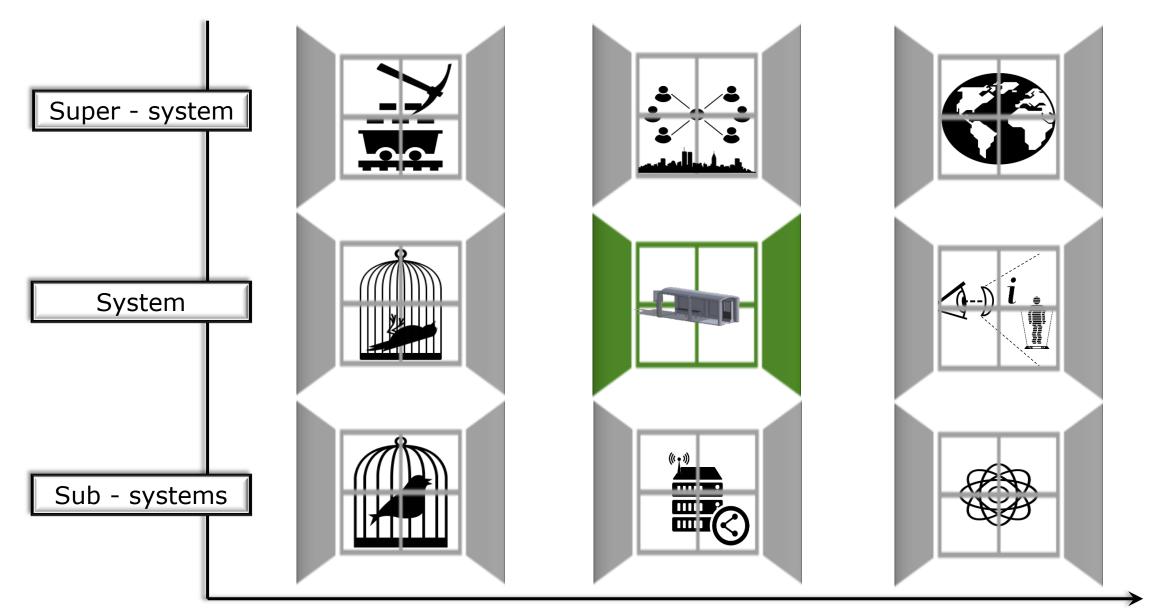


Provide citizens with a new public service aimed at increasing air pollution awareness

- Improve Government/local administrations' visibility about air quality issues
- Providing urban contests with smart technology towards «smart city»
- Reduce air pollution in urban areas

Our vision





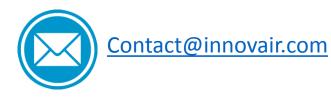














https://plus.google.com/InnovAir

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https://www.linkedin.com/InnovAir



How to pitch steps

- 1. Introduction: Field of interest/market ***** (Smart city slide??)
- 2. Highlights market/field problems 🗸
- 3. Show idea 🗸
- 4. Highlights proposed solution/s \checkmark
- Show Market possibilities: Competitors, market value, facts and idea's numbers (make benchmark with competitors)
- 6. Show revenue model \checkmark
- 7. Present the team and its roles \checkmark
- 8. Show ask (what do we need?!) </br>
- 9. Close with contacts \checkmark

Business model canvas

KEY ACTIVITIES



- Sell totem completed with sensors and communication module
- Suggest alternatives to Air pollution generation sources (e.g. increase the use of public transportation, bike and car sharing usage)
- Sell API calls package to: municipalities, private app developers, others (educational)
- Educate people to check on Air pollution level



- Detailed real-time info about local air pollution
- Daily tracking of the exposure to pollutant agents ("which are the effect of pollution on me") and of the emitted pollutants ("which are the effect of my habits on pollution")
- Providing users with tools through which they can be active in improving the environment quality.

Business model canvas

KEY RESOURCES



- Physical Assets: Sensors, Digital Interface, GPS system, Traffic Monitoring System
- Human: Maintenance people, IT specialist (develop the software), Air quality consultant
- Finance: Public Funding
- Non Physical: Information stream of other applications and means of transport (bike sharing, GTT, Car2go...)

CHANNELS	 Direct contact with the city council Articles in newspapers/magazines University events Street advertisement
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