

# City level measures to improve Air Quality

Air Quality Asia High Level Strategy Session  
April 2018

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*Deputy-Mayor for Health and Environment, Rennes (France)*

*Political Chair of WHO Healthy Cities French Network*

*Member of WHO Healthy Cities European vision group*

*Co-chair of GUAPO Global Urban Air Pollution Observatory*

@MarCharlott @VillesSanteOMS

# WHO Healthy Cities Network



**A global movement, with networks in all six WHO regions, acting on health determinants**





# Global Urban Air Pollution Observatory (GUAPO)



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GUAPO's targets:

I- Share information

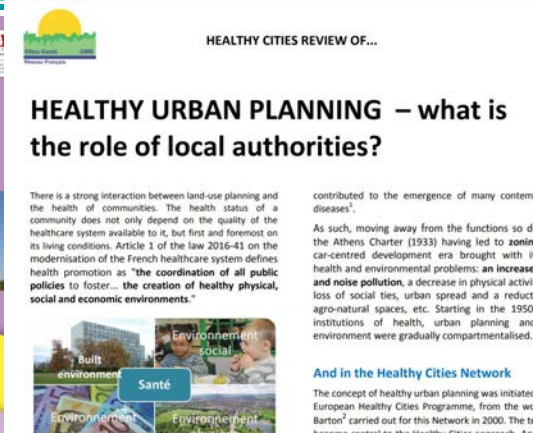
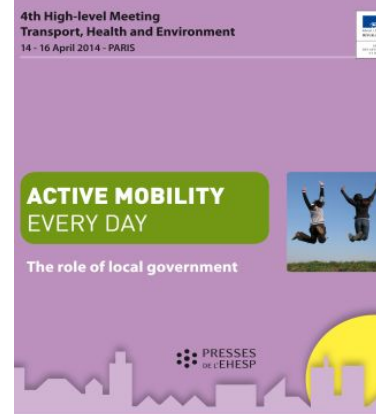
II- Help for solutions and capacity building

# The strenght of a network

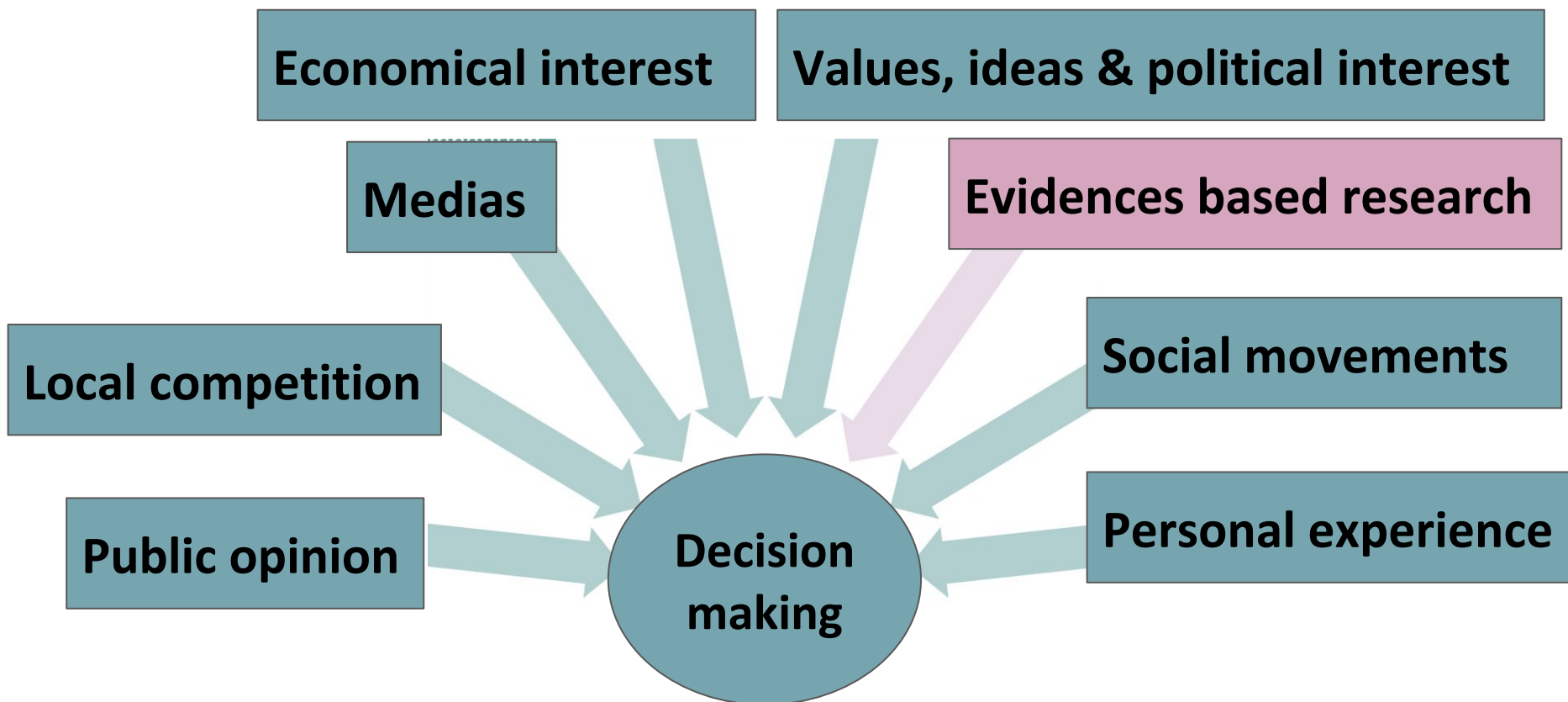
## Local empowerment → National advocacy

- Politicians “training
- Regional meetings
- Topics meetings (Air quality, Alcohol, Educational path for health, sport and health, health urban planning...)
- Identify best practices
- Identify gaps

- National committees
- National meetings
- Claiming cities’role in the law
- International network
- Publications : 4 pages Briefing papers, Vidéaos, Books, Online support, [www.villes-sante.com](http://www.villes-sante.com).



# Political process and decision-making: complex dynamics, multiple factors



Lacouture, A., Le Garjean, N., Ridde, V., Dagenais, C., & Pommier, J. (2015). Sharing and knowledge translation in public health between researchers and stakeholders from policies. Strategies in the political process.

Annotated bibliography. 28 pages; EHESP.

<https://recherche.ehesp.fr/ricap/wp-content/uploads/sites/3/2015/03/BD-EHSP-Bibli-A4-2015.pdf>

# International advocacy



When WHO supports local elected, it build leadership

Towards a stronger alliance :

=> bring politicians to key events

=> bring WHO to key local events

=> understanding new stakes and  
declaration, SDGs



**Sixth Ministerial  
Conference on  
Environment and  
Health**  
13-15 June 2017  
Ostrava, Czech Republic



WORLD HEALTH ORGANIZATION  
ORGANIZATION MONDIALE DE LA SANTE  
WELTGESUNDHEITSORGANIZATION  
ВСЕМИРНАЯ ОРГАНИЗАЦИЯ ЗДРАВООХРАНЕНИЯ

REGIONAL OFFICE FOR EUROPE  
BUREAU REGIONAL DE L'EUROPE  
REGIONALBÜRO FÜR EUROPA  
ЕВРОПЕЙСКОЕ РЕГИОНАЛЬНОЕ БЮРО

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DK-2100 Copenhagen Ø, Denmark  
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Email: [contact@euro.who.int](mailto:contact@euro.who.int)  
Website: <http://www.euro.who.int>

Our reference: HCN Your reference:  
Notre référence: Mayors' Votre référence:  
Unser Zeichen: Summit Ihr Zeichen:  
См. наш номер: На Ваш номер:

Dear Madam,

**WHO European Healthy Cities Network Summit of Mayors  
12-13 February 2018, Copenhagen, Denmark**

It is my pleasure to invite you to the World Health Organization (WHO) European Healthy Cities Network Summit of Mayors, which will be held at UN City in Copenhagen, Denmark, on 12-13 February 2018. I am convening this Summit in order to bring together selected mayors and political leaders from across the European Region to discuss and shape the future political direction of the WHO European Healthy Cities Network and how to achieve equitable and sustainable development for all.

Date: 06 December 2017

Ms Charlotte Marchandise  
Chair of French National Healthy Cities Network  
Hotel de Ville  
35000 Rennes  
France



# Air pollution : cities do lots of things

- Promote the use of less-polluting transportation, especially active mobilities
- Help to renovate habitat, and reduce heating-related emissions & burning
- Reduce pollutants in industrial sites
- Develop green spaces and connexions
- Prevent wastage
- Foster supplies of short circuit goods in schools
- Inform inhabitants

**But how do we reduce 7 million deaths ?**

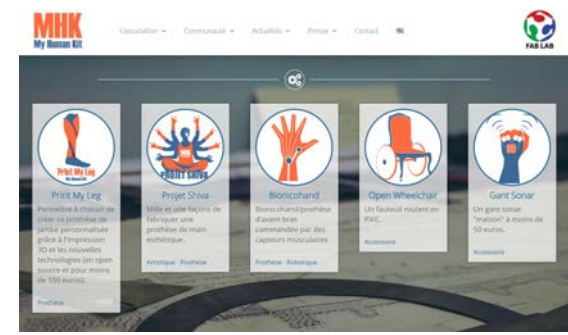


Pédibus



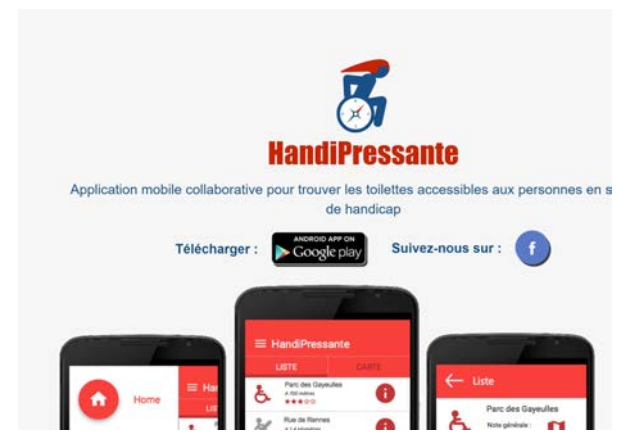
Vélobus





# Innovation : opportunity /responsability

Smart cities for smart citizens...  
 and for smart stakeholders ?  
 Social networks, e-health, quantified self



*“Whatever you do for me but without me,  
you do against me”*

*Mahatma Gandhi, 1869-1948*

=> true for policy makers also !

*(and it's win-win)*

# Mayors convening power = working with whole of society

## Solutions to tackle air pollution

- with stakeholders levers and issues
- with citizens and civil society users point of view
- with scientific critical eye
- with innovators ideas
- with companies technologies
- **with our networks ethics**



**BREATHE  
YOUR  
CITY**

TERRITORIES  
SHARING  
GOVERNANCE  
EXPERTISE

AIR QUALITY  
CITIZENSHIP  
TESTING

*Inventing the future together*

« LES GRANDS VOISINS »,  
FORMER SAINT-VINCENT-DE-PAUL HOSPITAL, PARIS,  
10TH-11TH DECEMBER 2015

**3 CHALLENGES LAUNCHED BY CITIES TO FIND NEW  
ANSWERS TO HEALTH QUESTIONS RELATING  
TO AIR QUALITY AND CLIMATE CHANGE**

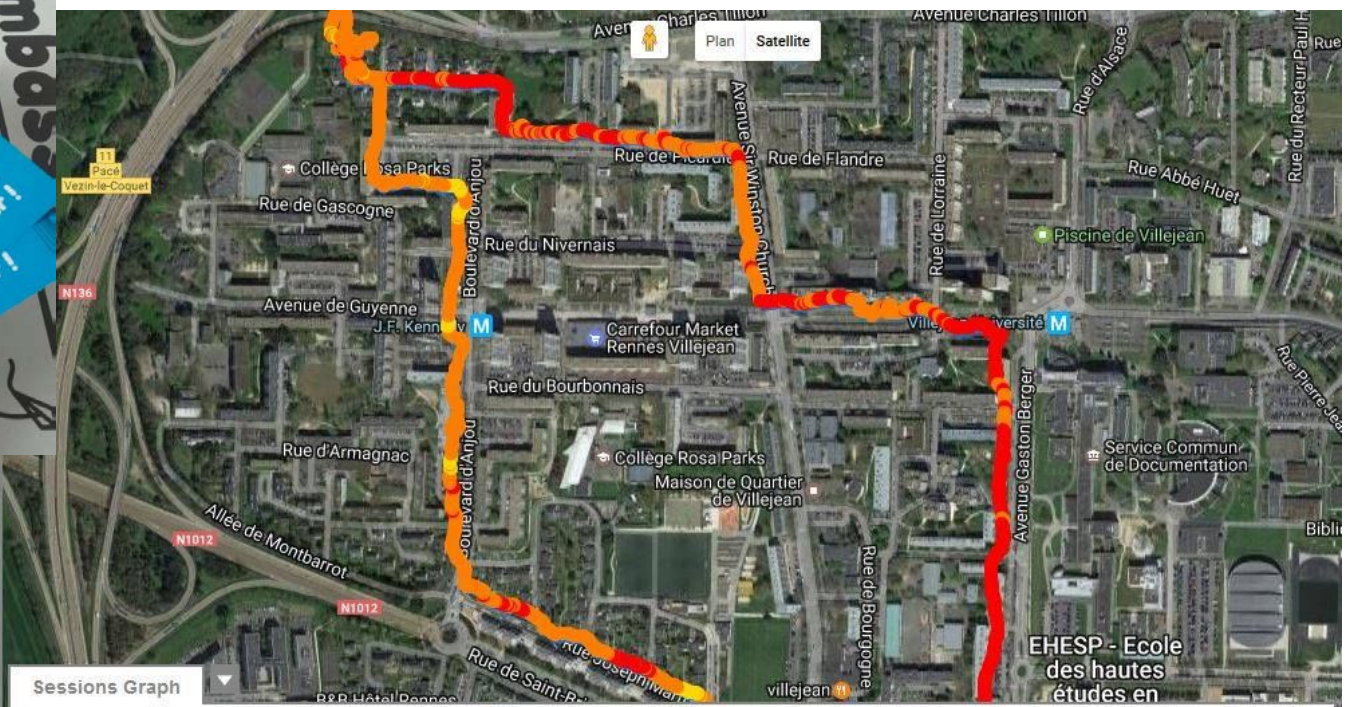
1: IMPROVING INDOOR AIR QUALITY  
2: MEASURING AND UNDERSTANDING AIR QUALITY  
3: ACTING DIFFERENTLY



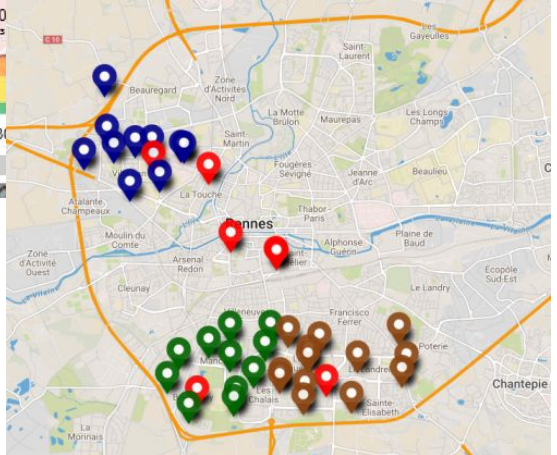
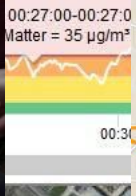
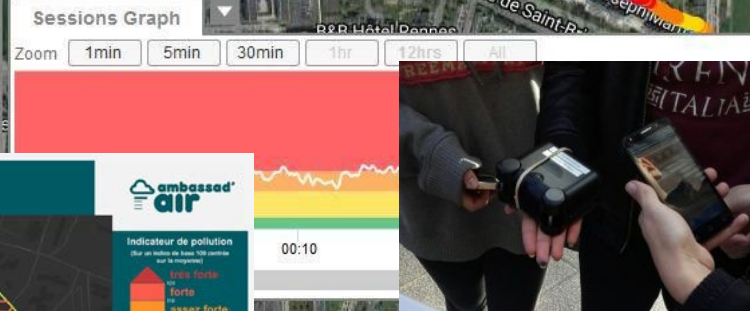
# Citizen air pollution sensors

- Empower the citizens through measuring the air quality
- Raise their awareness of environmental issues
- Encourage behavioral changes
- In a collective and participatory approach,
- Focusing on inequalities
- Share a vision of better life

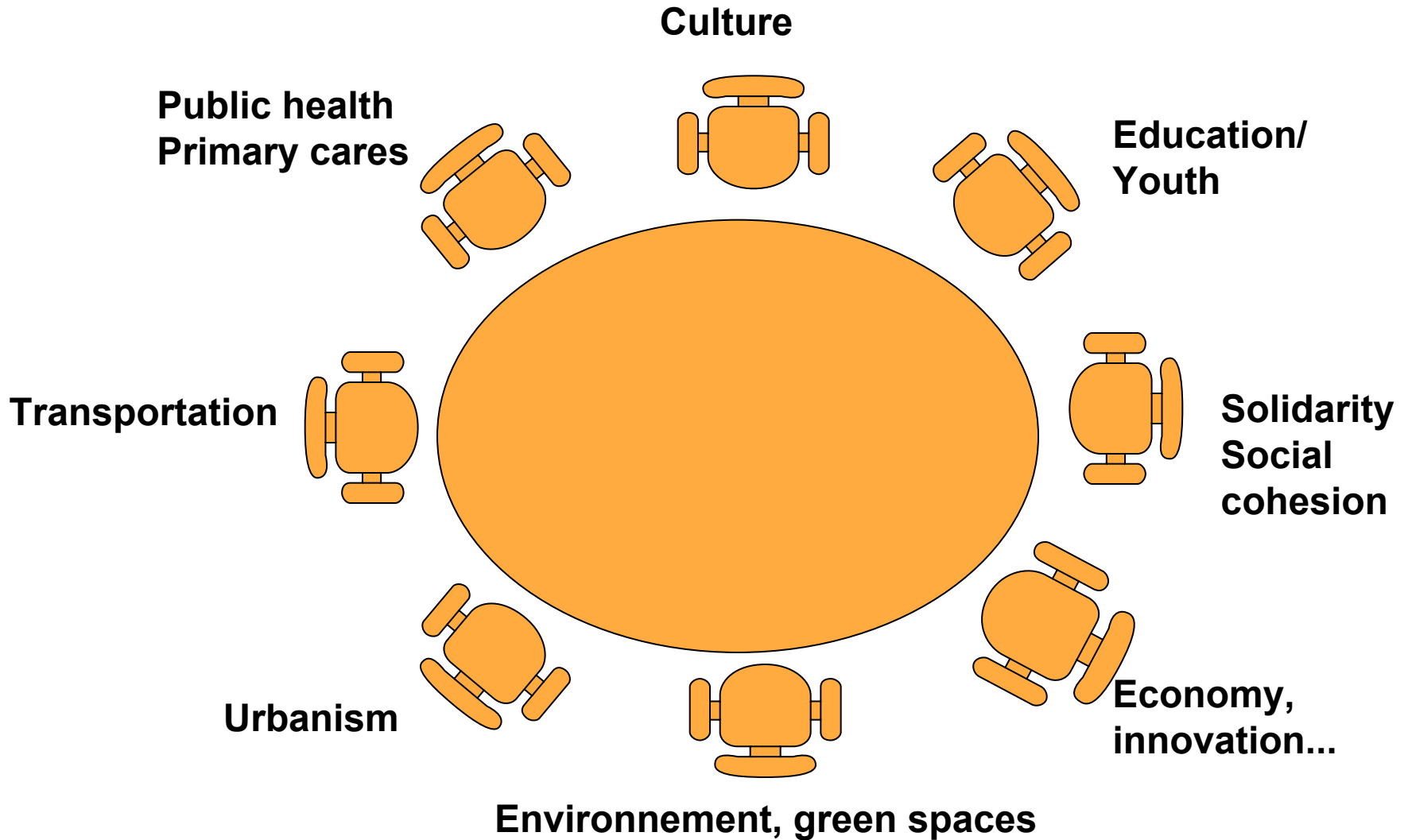




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bbbsj, 01/25/2017, 09:35-09:50  
dB/F/PM/RH
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Air05, 01/26/2017, 00:00-00:46  
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lthink314, 01/25/2017, 15:47-17:31



# 2 - Health in all policies approach





# Local datas for local stakeholders

=> with validated tools

=> that can be implemented in all cities

=> with useful conclusions that can be shared at all levels



LE POINT VILLES-SANTE SUR...

## Health Economic Assessment Tool for walking and cycling -HEAT

Transport is an essential part of living, enabling us to access our home, work and leisure activities as well as our friends and family. Every form of transport has a different impact on society in terms of health, social and environmental considerations.

In order to maintain good health, the World Health Organization (WHO) <sup>1</sup> advises at least 60 minutes a day of physical activity for children, and a minimum of 30 minutes for adults. In other words, at least 150 minutes of moderate intensity physical activity per week for adults. WHO confirms that active transport, like walking and cycling, is a valid form of moderate physical activity. It contributes to reducing chronic diseases such as respiratory difficulties, obesity, heart diseases and certain cancers.

The promotion of daily 'active' transport is a perfect solution for the general population to reach the recommended levels of physical activity. Active mobility is not only good for health but also positive for the environment, notably when walking or cycling replaces a car journey.

The Conference of the parties to the United Nations Convention on Climate Change, which will occur at the end of 2015 in Paris, will re-affirm the central role of transport for sustainable development. It should encourage the development of transport modes that don't give off greenhouse gases, such as active transport.



<sup>1</sup> WHO (2010), Global Recommendations for Physical Activity, WHO - Geneva.

### THE PEP, a programme for transport, health and the environment

To promote transport that respects health and the environment, the Euro- European Programme for transport, health and the environment (THE PEP) in 2002 was created by the World Health Organization's Regional Office (WHO-Europe) and the United Nations Economic Commission for Europe. In April 2014, its 56 country-members including France, signed the Declaration of Paris, which re-endorsed a similar objective that must be met before 2020, and agreed a new fifth one (see box below).

### The Declaration of Paris

THE PEP programme's Declaration of Paris identifies 5 priority objectives that must be reached before 2020:

- to contribute to sustainable economic development and stimulate job creation through investment in environment and health-friendly transport;
- to manage sustainable mobility and promote a more efficient transport system;
- to reduce emissions of transport-related greenhouse gases, air pollutants and noise;
- to promote policies and actions conducive to healthy and safe modes of transport; and
- (the new fifth goal) to integrate transport, health and environmental objectives into urban and spatial planning policies.

RESEAU FRANÇAIS DES VILLES SAINTE DE L'OMS

## BIKE - NANTES

	France	Nantes City (currently)	Nantes Metropolitan area (currently)	Nantes Metropolitan area (model 2030)
Average distance of a bike trip	2.6 km	2.5 km	3.2 km	3.2 km
Average number of trips per day per person (all transport types)	3.15	3.5	3.5	3.5
% average number of trips by bike	2.5%	5.5 %	4.5 %	12 %
Population		287 800	594 000	594 000
<b>RESULTS :</b>				
Number of deaths avoided over 10 years		120	260	670 avoided deaths
Economic Benefit over a 10 year period		461 000 000€	1 005 000 000€	2 682 000 000€

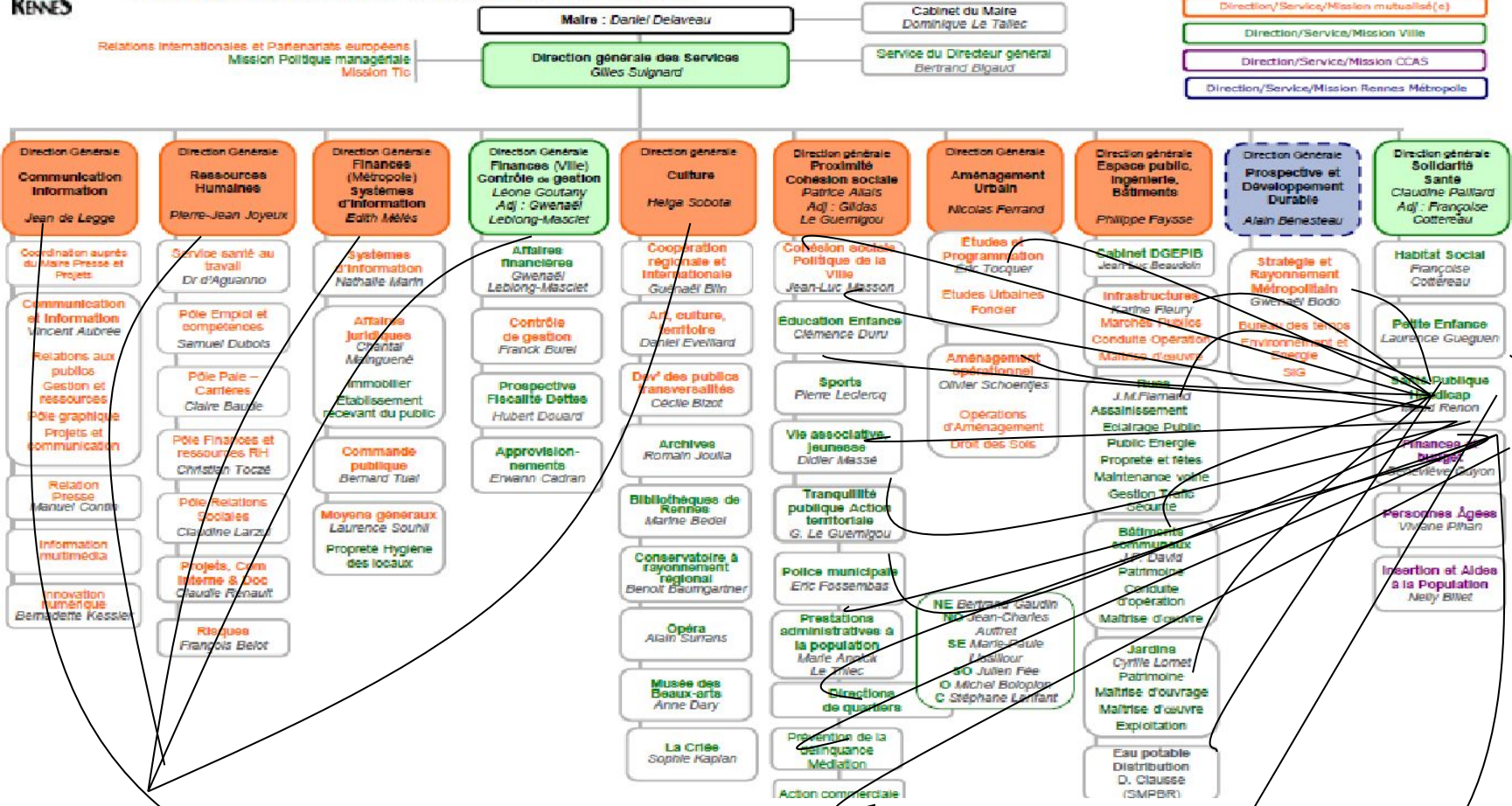
Health Economic Assessment Tool (HEAT) : From Europe to cities

# “Health in all policies” IRL

## Eléments de contexte sur l’environnement de travail des services de la DSPH La santé publique: un cadre d’actions partenarial interne



Organigramme général de la Ville de Rennes – Avril 2013



RENNES METROPOLE

# Sustainable food plan

Child health ??

Water protection

Farmer's health

National call  
for action

Air quality

Political competition

Waste  
management

Local economy



Win-win framework, window of opportunity and co-benefits

# HiAP IRL

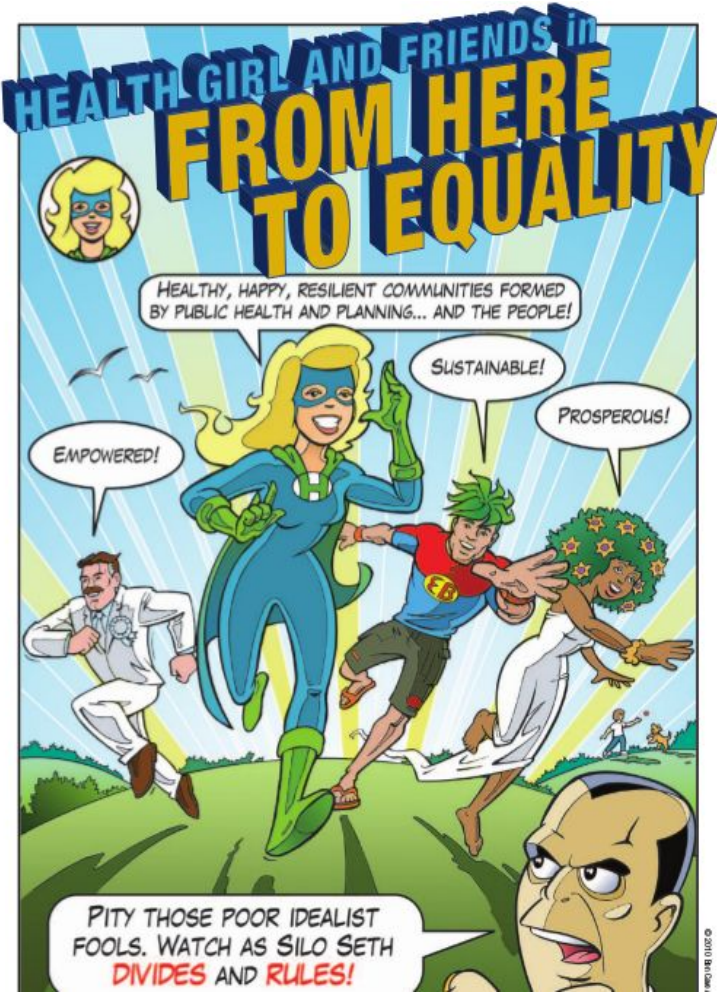
*Health in all policies in real life*



Getting in every room with examples, facts, propositions and challenges

# Conclusion : for bold political action, empower policy makers as health/SDG champions

@ben\_cave



=> Develop skills for policy makers : peer to peer training MOOC, easy-to-use briefs ...

=> Develop political skills amongst other stakeholders

=> Attractive & challenging :  
ex : Health and well being capital, UlaanBaatar eco-horo

# Thank you

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