









Regions and cities, pillars of the EU's future









Medium-sized cities as drivers for a greener Europe









your host



Cor Lamers Mayor of Schiedam

your moderator



Carol Thomas CEMR



OUR KEYNOTE SPEAKERS

- 1. Stephan Barthel associate professor at University of Gävle
- 2. Cor Lamers mayor of Schiedam, president ENVE Committee COR, vice-president Eurotowns
- 3. Martin Hückeler manager for European Affairs and for Funding of Solingen
- 4. Maria Mercedes Teixidor head of Mobility department of Girona
- 5. Iolanda Repullo head of Business Support of Sabadell

Before we start: YES or NO?

1.

2.

3.







Smart City Citizens

-Resilience of medium sized cities during global environmental change and the digital revolution



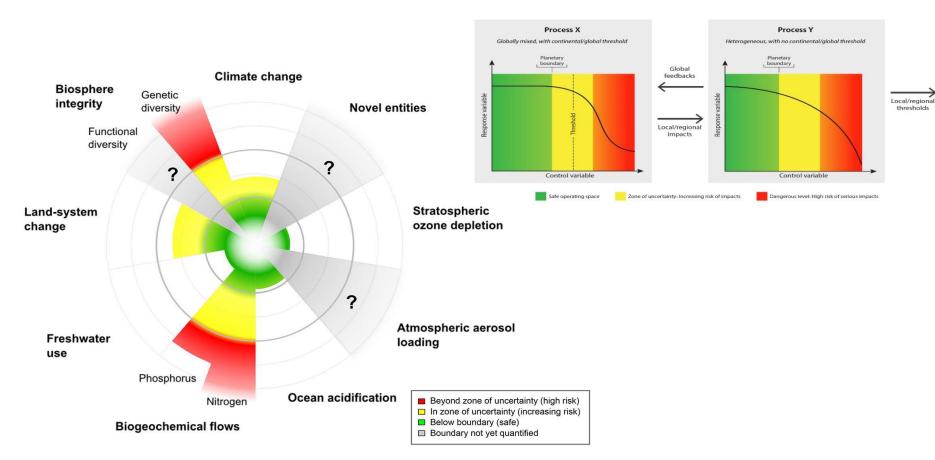
Associate Professor Stephan Barthel, University of Gävle, Sweden

(https://hig.se/urbanstudio)

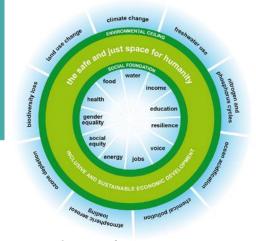




Shifting Planetary Boundaries – Time ripe for adaptation



Källa: Steffen et al. (2015). Planetary boundaries – Guiding human development on a changing planet



Urban Resilience

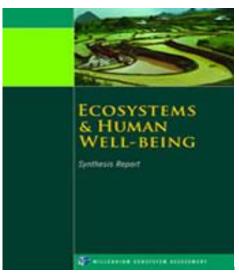
-The buffer capacity to absorb disturbance and continue develop

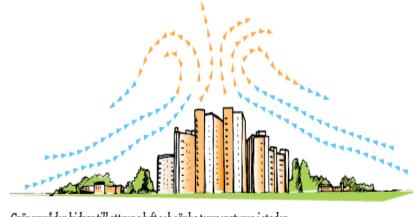


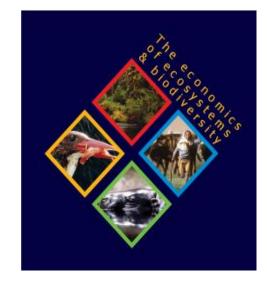


Urban Nature and Climate Resilience

-Ecosystem services







Grönområden bidrar till att rena luft och sänka temperaturen i staden.



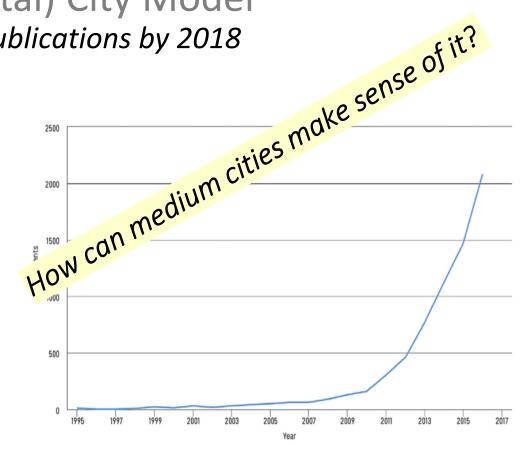




The Smart (digital) City Model

- c. 8000 scientific publications by 2018

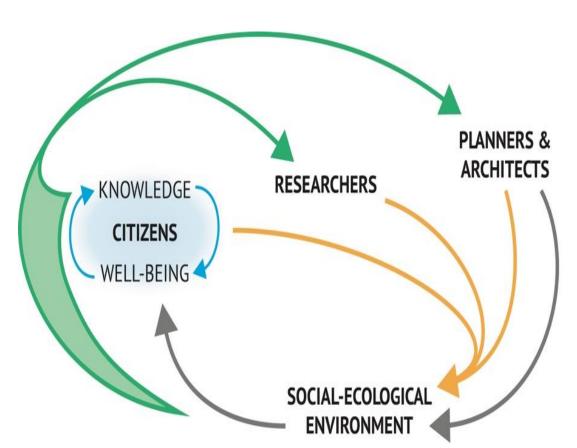




over the development of publications on "smart city"/"smart cities" as provided from the Scopus database. Source: modified from Scop

Civic participation in design

-Can digital tools be used to foster urban resilience?



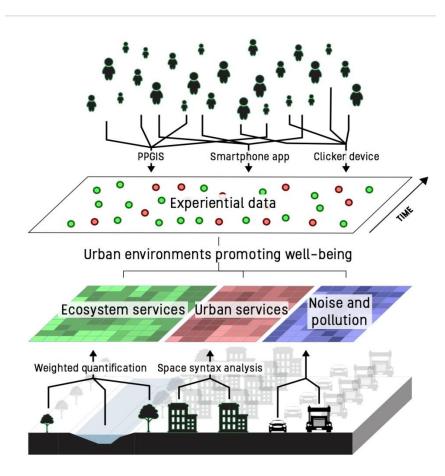




Navigating the Smart City Tsunami

-Innovation in digital methods for improving health







Conflicting Spatial Paradigm

-experiential knowledge may bridge the divide



Landscape and Urban Planning 171 (2018) 7-17



Contents lists available at ScienceDirect

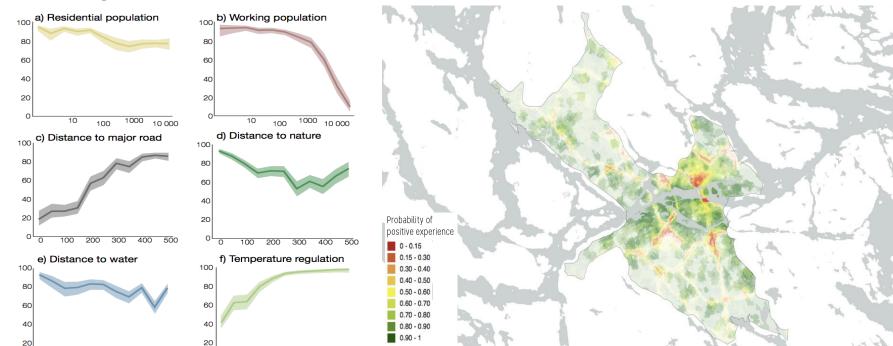
Landscape and Urban Planning

journal homepage: www.elsevier.com/locate/landurbplan

Research Paper

Impact of environment on people's everyday experiences in Stockholm

Karl Samuelsson^{a,*}, Matteo Giusti^b, Garry D. Peterson^b, Ann Legeby^c, S. Anders Brandt^a, Stephan Barthel^{a,b}





Resilient City-Scapes centered on Human Wellbeing

-Advantage of medium sized cities

- Healthcare costs are spiralling upwards
 - 95% of healthcare costs are in treating disease
 - Only 5% are in preventative healthcare!
 - Can we design for long term positive impact of social-ecological landscape on wellbeing?





https://hig.se/urbanstudio

Thanks!









EU Environment Action Programme and the local level

Cor Lamers, Mayor of Schiedam, president ENVE Committee CoR

The start of the European adventure

A personal story: how to achieve of air quality

- ➤ Mayor of Houten
- ➤ People move from Utrecht to Houten with the illusion to find better air quality

Air quality can only be improved:

- with legislation and source based policies on the European level
- with a multilevel and integrated approach



Active on European level







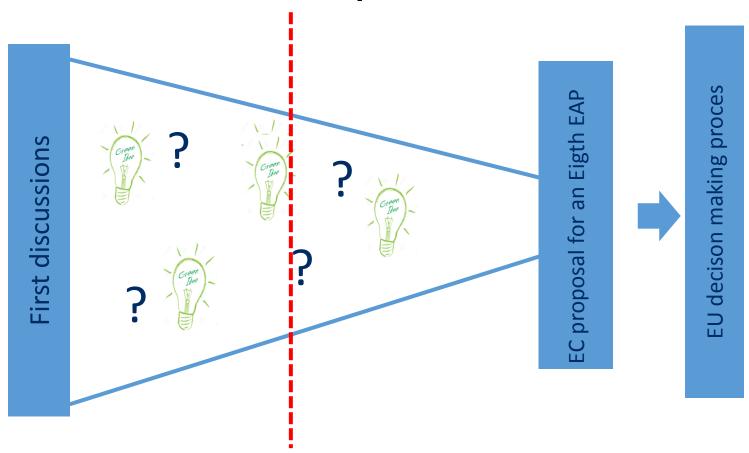


EU Environmental Action Programs in a nutshell

- ➤ Since the mid-seventies EU environmental policy has been guided by action programs
- ➤The EAPs define priority objectives to be achieved within a period of years.
- >The current and seventh EAP is been evaluated.
- ➤ The European Commission currently works on the 8th EAP



Where are we in the process



It is not helping if we keep walking in the same direction, perhaps we should find another route!



New scope

- From problems (states and impacts)
- To reasons (drivers and pressures)
- And solutions (responses)
- This requires a different line of thinking





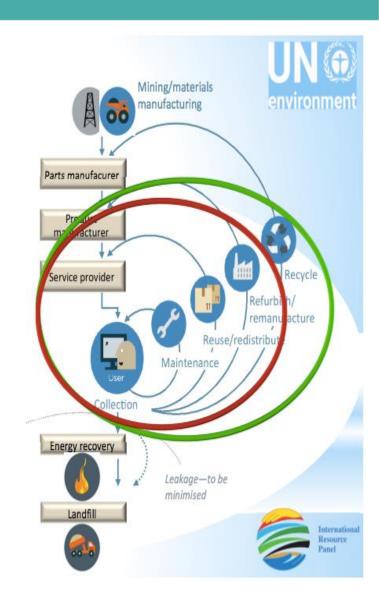
The 8th EAP should be based on a practical integrated approach:

- > To support implementation
- To create space for further innovation
- To support transition policies
- > To stimulate and inspire cities and regions to take further steps



Transition policies

- Circular economy
- Energy transition
- Mobility transition
- Food transition
- Transitions in living area's





Schiedam – an example of a medium-sized city



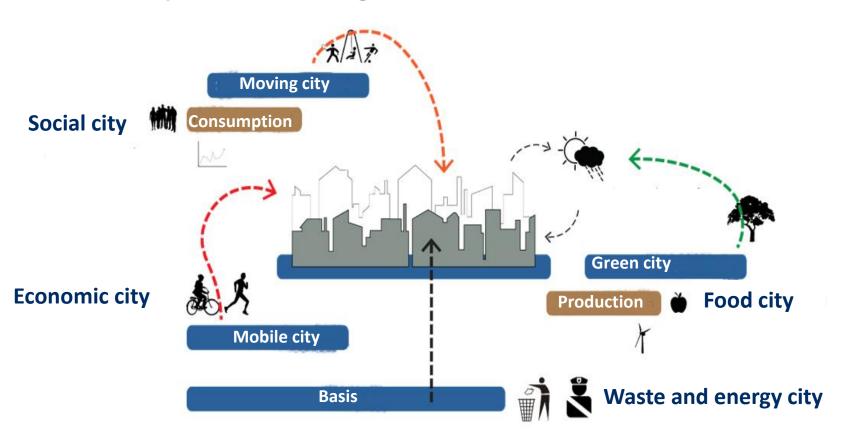








Healthy urban living approach





The central theme of the Eighth EAP should be healthy living for all (people, nature and planet)

It should result into

healthy and prosperous urban areas
a healthy vibrant countryside
attractive and safe coastal and mountainous areas

THANK YOU!







Medium sized cities as drivers for a greener Europe The Sustainability Strategy in Solingen Martin Hückeler



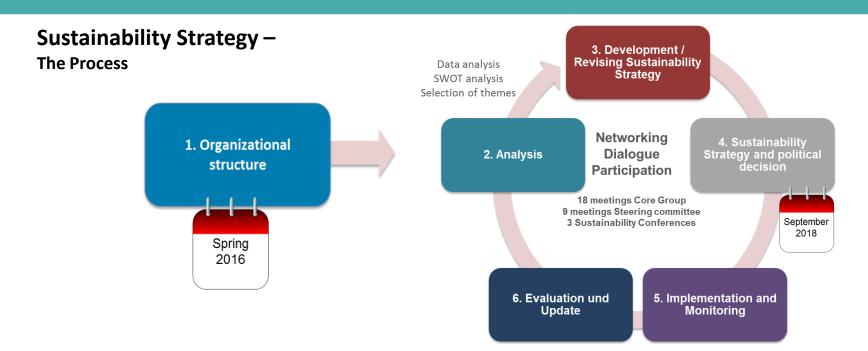


Overview of the structure:

- Short introduction of Solingen
- Sustainable Strategy Solingen
 - Process
 - Work structure
 - ➤ 6 prioritised topics
 - Example "Global responsibility .."
- Sustainability assessment
- Conclusions
- Outlook on concrete "green" measures







SWOT analyses and indicators as a basis for 6 prioritised topics:





Natural resources & environment



Climate & Energy



Mobility



Jobs & economy



Global responsibility & One World



Sustainability Strategy –Work and organisational structure

Mutual cooperation between Core Group and Steering Committee based on varied dialogue processes and sustainability conferences



Sustainability Conferences:

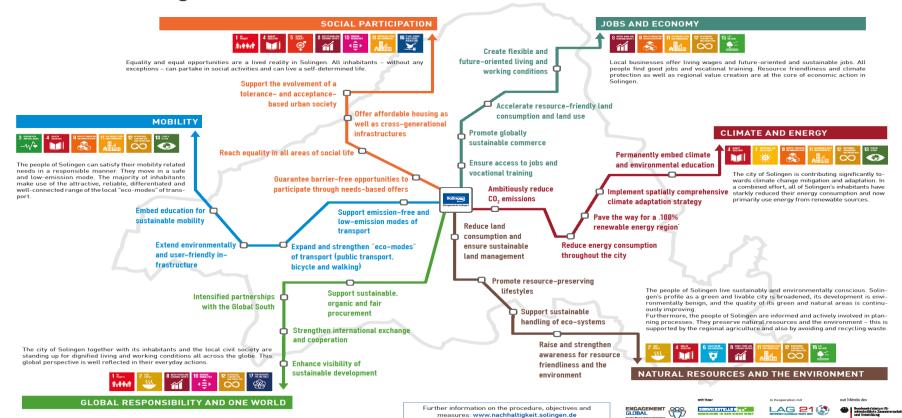
- a crucial approach in the process
- participation of several hundred citizens in 3 conferences
- to be involved in
 - definition of targets
 - definition of projects
 - definition of action plan and next steps



Sustainability Strategy of Solingen Guidelines and goals







Target levels of the strategy



Global responsibility and One World - Example

Thematic guideline: The city of Solingen together with all of ist citizens and the local civil society are standing up for dignified living and working conditions all across the globe. This global perspective is well reflected in their everyday actions.

1. Strategic target: Support sustainable, organic and fair procurement

1.1 Operational target:

Expand fair, ecological and regional procurement in

administration and pilot companies

In 2023, the city of Solingen is procuring all products from the Global South based on Fair Trade and organic criteria (if available).

In 2023, the city administration covers all of its food demand from environmentally benign and regional sources (if available).

Until 2023 at least 30 pilot companies have started to implement organic and fair procurement (minimum 5 organic and fair products from the Global South as well as 5 organic products from regional sources).

1.2 Operational target:

Increase supply and demand for eco-fair products in the retail and catering trade

By 2023, 70% of all grocery stores in Solingen offer a fair trade, organic certified or regional assortment of goods.

In 2023, 20 restaurants will be using both regional and local food as well as fairly traded and certified organic products.

The city of Solingen will be regularly certified as Fairtrade Town from 2018. Together with the retail trade, hotels and restaurants as well as other companies (production / service) it is expanding the program to promote eco-fair consumption.

Activities / projects (samples):

- Campaign for an incremental transformation towards sustainable public procurement
- Strategy "Sustainable Procurement in Solingen"
- City-wide action plan "Organic-Fair-Shopping & Retail"





Sustainability Assessment:

E	C C	D	E	F	G		
	Globale Verantwortung und Eine Welt						
Strategische Ziele			Operative Ziele				
	1 Nachhaltige, öko-faire Beschaffung fördern	Faire, ökologische und regionale Beschaffung in Verwaltung und Pilotunternehmen ausbauen					
		1.2	Angebot und Nachfrage für öko-faire Produkte bei Einzelhandel und Gastronomie erhöhen				
	Weitere Auswirkungen auf das Erreichen des strategischen Ziels 1, die über 1.1 bis 1.2 hinaus gehen						
	2 Partnerschaften mit Ländern des Globalen Süden festigen	2.1	Kommunale Entwicklungspartnerschaft mit den Partnerkommunen voranbringen				
		2.2	Engagement von Unternehmen für entwicklungspolitische Zusammenarbeit nutzen				
	Weitere Auswirkungen auf das Erreichen des strategischen Ziels 2, die über 2.1 bis 2.2 hinaus gehen						
3	3 Internationalen Austausch und Zusammenarbeit stärken	3.1	Lokale und internationale Zusammenarbeit und Netzwerke stärken				
		3.2	Zivilgesellschaftliche internationale Projektarbeit insbesondere junger Menschen ausbauen				
	Weitere Auswirkungen auf das Erreichen des strategischen Ziels 3, die über 3.1 bis 3.2 hinaus gehen						
4	Nachhaltige Entwicklung erkennbar und erlebbar machen	4.1	Global verantwortliches Handeln in Kindergärten, Schulen, bei Ausbildung und Personalentwicklung verankern				
	4	4.2	Experimentier- und Lernorte für Nachhaltigkeit und Lebensqualität schaffen				
	Weitere Auswirkungen auf das Erreichen des strategischen Ziels 4, die über 4.1 bis 4.2 hinaus gehen						

Weiteres Vorgehen

Alle ausgewählten Ziele werden automatisch in die Tabelle "Zusammenfassung" übertragen.

Bitte gehen Sie auf den Tabellenreiter" "Zusammenfassung".

- 1. Dort gehen Sie zunächst auf den gelben Schalter "Zusammenfassen". Damit wird die Gesamttabelle auf die ausgewählten Ziele gekürzt.
- 2. Mit dem grauen bzw. orangenen Schalter wählen sie aus, ob die Tabelle in Graustufen oder in Farbe in die Beschluss-

(+)



Sustainability Assessment:

How to use it:

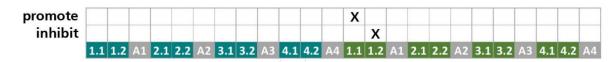
Administrative short check for sustainability assessment for any resolution for the City Council or its Committees

Note on application: All table columns contain the long version of the targets in the background. A pop-up window opens when you move your mouse to the top right corner.

The impact assessment relates to the long version of the objectives.

Resolution No. __Year Number__Short Name:

Global ı							
Strategic target	Operational target		inhibit				
Support sustainable, organic and fair procurement	1.1 Expand fair, ecological and regional procurement in administration and pilot companies	Operational target 1.2:				"	
80110.000000000000000000000000000000000	1.2 Increase supply and demand for eco-fair products in the retail and catering trade	a fair	By 2023, 70% of all grocery stores in Solingen offer a fair trade, organic certified or regional assortment of goods.				
			food as v		pe using both readed and certifi	_	
		Fairtr hotel (prod	rade Towns and resiluction / s	n from 2018. T taurants as we	egularly certifie ogether with the ll as other com panding the pro on.	ne retail trade panies	



Sustainability Assessment:

What we want to achieve:

- the results of the short check are presented in the draft resolution in the newly introduced subsection "6. Impact on the objectives of the Sustainability Strategy"
 - In a tabular overview, the affected targets are displayed there (with short titles)
 - > An overall assessment follows as a short summary text
- short check to derive an overall assessment whether the content of this proposal / resolution is based on the goals of the sustainability strategy impact.
- Decision reasons for pro and contra aspects should be comprehensible
- Make sure that the SDGs are already considered at the beginning of the considerations





Conclusions:

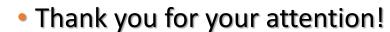
- Translating the SDGs into municipal actions leads up to significant organizational and content-regarded development of the Sustainability Strategy in Solingen
- Guidelines and targets show a clear picture of a locally and globally sustainable Solingen
- Ambitious and smart operational goals as the main levers of further actions
- Action plan links existing activities with future development plans
- Organizational process allows extensive involvement / participation of numerous actors from civil society, economy and science
- The City Council has recognized the significance of the strategy and extensively discussed it in its body and adopted it with small modifications
- Regardless of political changes in the City Council, the administration now has an authorized working basis until 2030





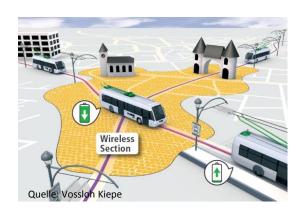
Outlook on concrete "green" measures:

- Solingen has become Fairtrade-Town
- Operational Mobility Management for the City of Solingen
- The battery trolleybus for even more CO2 neutrality
- in public transport
- Expansion and intelligent control of the modal split
- through digitization
- Restoration of natural habitats
- Measures against forest dying
- EUROTOWNS new Task Team "Global Goals"



- Contact:
- City of Solingen
- Martin Hückeler Manager for European Affairs and for Funding
 - Walter-Scheel-Platz 1, 42651 Solingen







School Chance

SCHOOL mobility CHAllenge in regioNal poliCiEs

Maria Mercedes Texeidor - Girona







Incorporate children's independent mobility in regional and cities policies

School traffic

Kids driven to school

of the total traffic at urban level traffic

30-60 %

15%

Depending on country and school level

Schools have a important role in reducing emissions

Changing mobility behaviour of school children



Today's emissions



Next generations mind-set towards sustainability









Incorporate children's independent mobility in regional and cities policies **around 4 policy themes**

Infrastructure





Education and awareness raising

Organisation and information

Safe route to school



Communication



Why?

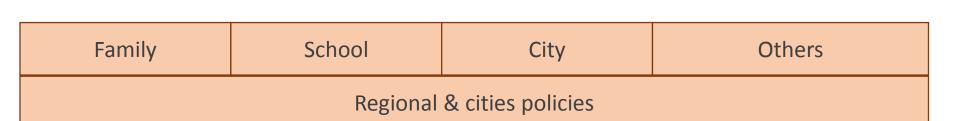


Because ...

1. Creation of habit: Repetition of acts

Unconscious Forced Wilfully Luned - Venerdi 7,50 - 8.05 Ontresse have interessed.

2. Meaning: Which purpose has that habit?





www.interregeurope.eu/schoolchance



facebook.com/schoolchance



twitter.com/schoolchance



Interreg Europe



Socis del projecte

- Ajuntament de Girona (ES) soci líder
- Municipality of Reggio Emilia (IT)
- Austrian Mobility Research FGM-AMOR, Graz (AT)
- Generalitat de Catalunya (ES)
- Ciutat d'Utrecht (NL)
- Ajuntament de Gävle (SE)
- Ciutat de Gdansk (PL)
- Brasov Metropolitan Agency for Sustainable Development (RO)

7 partners from 8 countries

	PHASE 1			PHASE 2			
2017	2018	2019	2020	2021			
GOOD PRACTICE identification among partners	STUDY VISITS of GP selected	REGIONAL/ LOCAL ACTION PLAN development (TW + P2P)	IMPLEME	N PLAN ENTATION NITORING Final event in Barcelona			
Local stakeholder group participation in all activities							

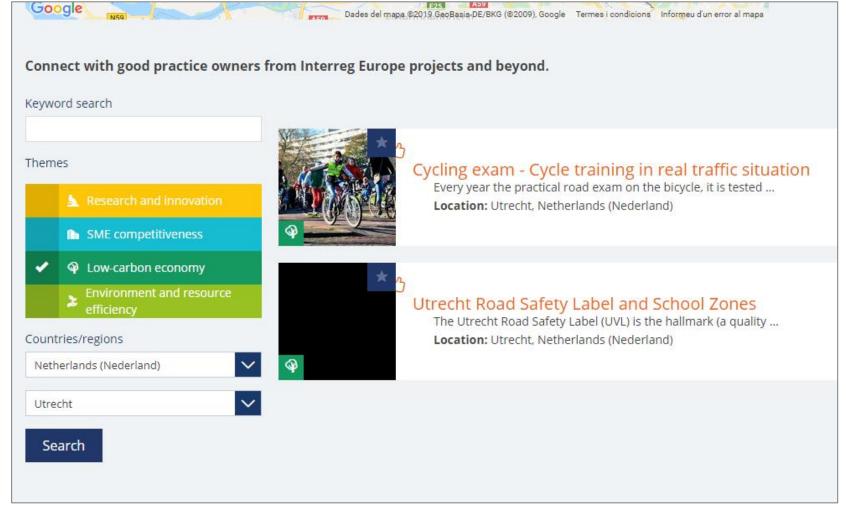
Policy Learning Platform



Regions and cities









School Chance GP: School Mobility Managers Network





City of Reggio Emilia



Main contact point in the school for the mobility policies





First School Mobility manager in Girona. December 2018

School Chance GP: Cycling exam - Cycle training in real traffic situation

Practical and a theoretical training







2. Cycling exam







School Chance GP: Cycling May

Children, parents & staff are asked to make their journey to school in an active way in May

All active participants are rewarded!

Gdansk











If you need a simple & powerful way to make your city greener?

Have a go with ...







M. Mercedes Teixidor Head of Mobility department Municipality of Girona Spain mteixidor@ajgirona.cat



Girona, Kick-off meeting 28th February 2017









Industrial Symbiosis in Sabadell: a medium-seized city experience fostering a greener Europe through more sustainable industrial areas

Iolanda Repullo, Head of Business Support, Sabadell

Framework

- Spanish National Energy and Climate Plan: concern on sustainability and energy efficiency.
- Sabadell and its surrounding is the most industrialized area in the region: high production of industrial waste.
- 7 industrial areas that are part of the city of Sabadell with an impact on its sustainability as a city.
- Strong linkages among the different agents of the local ecosystem (companies, citizens, universities, local administration, etc.).

- Enough dimension to have relevant impact.
- Chance to keep close and thus gain trust and cohesion among the necessary stakeholders.
- Decision on 2014 for a supramunicipal project on industrial symbiosis.
- Industrial areas as a key element of wealth and job creation as well as the production of industrial waste: critical in terms of city's sustainability.
- Project building on assets of being a medium-sized city plus all the work done since 2008 connecting with industrial companies.

Actions

• Identification of companies, activities and generated waste.







Data processing and identification of possible synergies.



RECUPERACIÓ D'AIGÜES RESIDUALS



REDUCCIÓ I/O MILLOR VALORITZACIÓ D'EMBALATGES



RECUPERACIÓ DE PLÀSTICS/ETIQUETES





MILLORAR LA VALORITZACIÓ DELS METALLS



MANCOMUNADA DE RESIDUS ORGÀNICS PROCEDENTS DE MENJADORS DE LES EMPRESES





MILLORAR EL RECICLATGE (CICLE DE VIDA) D'OLIS, FILTRES I BATERIES



PRODUCCIÓ DE BIOGÀS





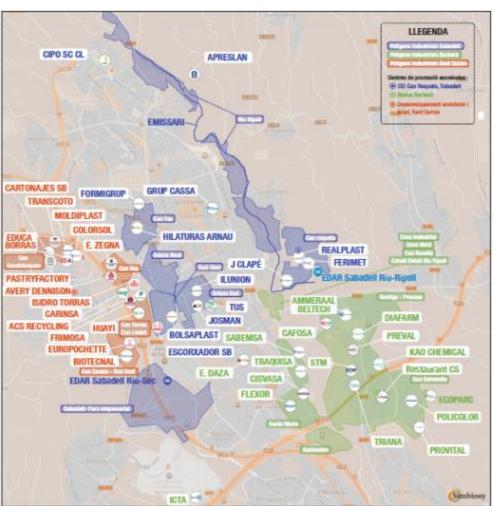
TANCAR LA CADENA DE VALOR DEL TÈXTIL



PREPARACIÓ PER A LA REUTILITZACIÓ DE MATERIALS RESIDUALS

 Mapping opportunities and linkages among institutions.







Results

COMPANY VISITS

PERSONALIZED SUPPORT ACTIONS

BEST PRACTICES INFOGRAPHICS

Key factors of the process

- Gaining trust and loyalty.
- Sharing information.
- Raising group awareness.
- Public administration becoming a facilitator.
- Consolidating the specific strategy of circular economy.
- Producing communication products and best practices.







En els darrers anvs

estan investigant en

nous formigons i àrids

artificials.

camions per fer el

transport de les materies primeres



què es dedica

- FORMIGRUP està format per les empreses Formigons Montcau i Sorres i Graves Egara.
- Subministren àrids naturals i reciclats amb marcatge CE.
- Subministren formigons amb certificat D.O.R. I amb baixos nivells de variabilitat que asseguren als clients l'optimització de les dosificacions i el compliment de les especificacions i normatives vigents.
- 30 persones treballadores
- 3500m² repartits entre oficines i la nau d'àrids a Sabadell
- 136ha d'autorització d'explotació a la pedrera Sorranova

Formigons Montcau S.A.

C. Valend Almirali 63 08006, Sabadell 937 26 58 11 www.formigorsmontcausabadel.es

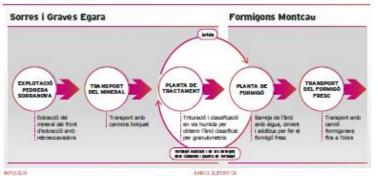
Simbiosi en 'aprofitamen dels seus recursos



Sorres i Graves Egara S.A. C. Josephin Costa, 106

DROOK SWINNER 937 26 88 89 www.somsigravesegara.es

Com ho fan?



RECURSOS D'ENTRADA

Matèries primeres i altres:



- · Ciment Àrids
- · Additius
- Sorres de fundició
- · Formigó sobrant propi i d'altres empreses fabricants de formigó → SUBPRODUCTE

Energia



- · Energia elèctrica pel formigó, la pedrera i les oficines
- · Gasoil per a camions i maguinària



. Utilitzen 150.000 m3/any per a la fabricació del formigó i el rentat dels àrids (el 93% ve de la reutilització)

RECURSOS DE SORTIDA

Producte



- 42.000m³ de:
 - formigó estructural formigó amb àrid reciclat
 - formigons especials
- * 150.000 t de:
 - àrids naturals
 - àrids artificials
 - àrids procedents residus municipals
 - terres vegetals

Residus



- 2,5 t de ferralla (ferro i acer) que es ven
- 3.000 t de formigó sobrant → SUBPRODUCTE

Simbiosi industrial

FORMIGRUP té la capacitat empresarial per innovar en nous processos d'aprofitament i transformació de residus en el món de la construcció

En implementació...



- Fabricació de terres vegetals amb productes reciclats
- Utilització del compost de les plantes de residus properes
- · Producte certificat (CLV Certificat de Lliure Venta)

Fabricació de formigons amb productes recidats

Investigació



- . Fibra de vidre com a component estructurant (amb OWENS)
- * Petites peces de plàstic com a àrids per fer formigons més lleugers
- Corindó per a formigons espedals
- « Revalorització de: escòries d'incineradora de residus, sorres de fundició per a morter i llots de la fabricació de ceràmica

Noves línies de simbiosi

Aigua

Reutilització d'aiaŭes provinents de la depuradora.

Promoure projectes en les associacions empresarials, administracions... en:

- . Formigons amb nous productes
- * Fabricació de terres artificials a partir de recursos sobrants





















Impacts

For companies...

- Reduction of operating and production costs between the treatment and recovery of waste.
- Efficiency and increase in the production.
- Attraction of private investment and new products.
- Development of new sustainable projects among companies.

For the environment...

- Decreased demand for natural resources.
- Pollution decrease.
- Decreased demand to rubbish dumps.

For the society...

- Creation of new job places.
- Pollution reduction and its related diseases.



Thank you for your attention!

More info

www.simbisosiindustrial.com

Contact

Iolanda Repullo

irepullo@ajsabadell.cat







Medium-sized cities as drivers for a greener Europe







#EURegionsWeek
@eurotowns

YES or NO?

- 1.
- **2.**
- 1.







Medium-sized cities as drivers for a greener Europe

THANK YOU!

