





Grant Agreement No.: 730468

Project acronym: Nature4Cities

Project title: Nature Based Solutions for re-naturing cities: knowledge diffusion and decision support platform through new collaborative models

Research and Innovation Action

Topic: SCC-03-2016: New governance, business, financing models and economic impact assessment tools for sustainable cities with nature-based solutions (urban re-naturing)

Starting date of project: 1st of November 2016

Duration: 48 months

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730468





Documentation General Meeting Nature4Cities Community Building Day, Vienna

15-16th May 2017 University of Natural Resources and Life Sciences Peter Jordan Straße 82, 1190 Vienna





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1 Introduction: The first community building day

The first community building day of Nature4Cities took place from 15th to 16th of may 2017 at the University of Natural Resources and Life Sciences in Vienna. The purpose of the community building day was to bring together people from divergent professional backgrounds who operate in the field of Nature Based Solutions. Members from the European Union, from the finance sector, the industry, city planners, architects, green area managers and many others were invited to communicate and to exchange experiences. The over all aim of Nature4Cities is to create a network for activities and research for Nature-Based Solutions throughout the European Union and serve as a knowledge platform. Moreover co-development and demonstration with partner cities take place. Regular meetings and communication are key factors for a successful collaboration within the project and the effective future of Nature-Based Solutions.













2 Program

The community building day as a part of the general meeting in Vienna took place on the 15th and 16th of may 2017. The first day, the general meeting, was characterized by presentations regarding the status of the progress, discussions and the definition of the next steps. In the afternoon a work session was held to work together on a strategy for integration of the project outcomes, databases, methods an tools. Reports and video are allocated in the server.

In the evening the members of the conference were invited by the team of Green4Cities on a guided bus tour to NBS sites in Vienna. They visited the Boutique- Hotel Stadthalle, a school which has a research project on green walls (GRG 7) as well as the green facades of the municipal buildings of MA 31 & MA48. The day ended at a cosy get-together at a typical Viennese Heuriger.

2.1 DAY ONE: General meeting

DAY 1	University of Natural Resources and Applied Ute Sources, Varna	EUROYAN COMUSSION	
15th May 2017	gress within the WPs and Tasks		
Discussion with all Partners Moderation Vera Enzi C	s, Definition next steps		
8:00	REGISTRATION	D	
	University of Natural Resources and Life Sciences (BOKU) Exner-Haus Peter-Jordan-Straße 82, 1190 Vienna	Room EXNH HS05	
8:30-9:00	WELCOME BY PROJECT COORDINATOR	Room	
	Welcome by Germain Adell Nobatek	EXNH HS05	
9:00-9:30	WP 9 - COMMUNICATION	_	
	Presentation of Progress - WP9 Leader P&C / Task Leader Discussion & Definition Next Steps	Room EXNH HS05	
9:30-10:15	WP 1 - STRUCTURING OF KNOWLEDGE ON NBS	Deserve	
9:30- 9:45 9:45-10:15	Presentation of Progress - WP1 Leader CER / Task Leader Discussion & Definition Next Steps	Room EXNH HS05	
10:15-11:00	WP 5 - IMPLEMENTATION MODELS	Room	
10:15-10:30 10:30-11:00	Presentation of Progress - WP5 Leader TEC / Task Leader Discussion & Definition Next Steps	EXNH HS05	
11:00-11:30	BREAK		
	Coffee & Fruits		
11:30-12:15	WP 8 - USER REQUIREMENTS		
11:30-11:45	Presentation of Progress - WP8 Leader R2M / Task Leader	Room EXNH HS05	
11:45-12:15	Discussion & Definition Next Steps		
12:15-13:45	INTER-WP WORK SESSION	Room	
	work altogether on the strategy for integration of the projects outcomes, databases, methods and tools	EXNH HS05 SCHW-SR08 03/105	5





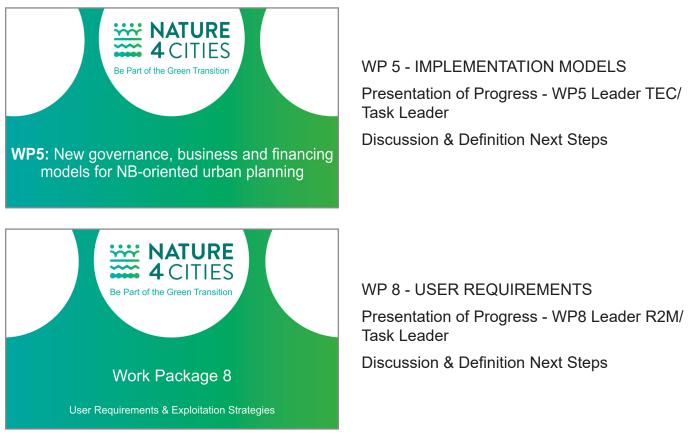
		03/107
13:45-15:00	LUNCH BREAK	,
	MODUL Café-Restaurant Peter-Jordan-Straße 78	
	Lunch is included	
15:00-16:30	PARALLEL SESSIONS	Room
	WP1 + WP2 joint workshop	EXNH HS05
	WP3 + WP4 joint workshop	SCHW-SR08
		03/105
		03/107
	OFFICIAL END - DAY 1	
17:00-19:00	GUIDED BUS TOUR TO NBS SITES IN VIENNA BY G4C	Place
	Boutique-Hotel Stadthalle GRG7 MA 31 & MA 48	Bus Tour in Vienna
	free participation but only possible after registration - max 60 persons	Bus lour in vienna
20:00	DINNER	
	Heuriger Wolff Rathstraße 46-50, 1190 Wien	Place
	Common journey by bus after the tour	Heuriger
23:00	only possible after registration - not included, has to be payed individually	/

Following the official welcome by the project coordinator Germain Adell from Nobatek the progress of several work packages (WP 9, WP 1, WP 5, Wp 8) was presented. Different workpackages were discussed and next steps defined.

WP9 – Communication MP9 meeting, May 2017	WP 9 - COMMUNICATION Presentation of Progress - WP9 Leader P&C/ Task Leader Discussion & Definition Next Steps
NATURE A CITIES Be Part of the Green Transition	WP 1 - STRUCTURING OF KNOWLEDGE ON NBS
General Meeting - WP1, work progress report Vienna, 15 ^{th –} 16 th may 2017	Presentation of Progress - WP1 Leader CER/ Task Leader Discussion & Definition Next Steps







Following the presentations of workpackages work sessions were organized. The aim of the Inter-WP work session was to define a strategy for integration of the project outcomes, databases, methods and tools and two joint workshops were held on the workpackages 1+2 as well as 3+4.











At 5pm the guided bus tour started and took conference members to several NBS sites in Vienna such as the Boutiquehotel Stadthalle, a school project on green walls (GRG 7) and the green facades of the municipal buildings of MA 31 & MA48.



Boutiquehotel Stadthalle



GRG 7



Municipal building MA 48

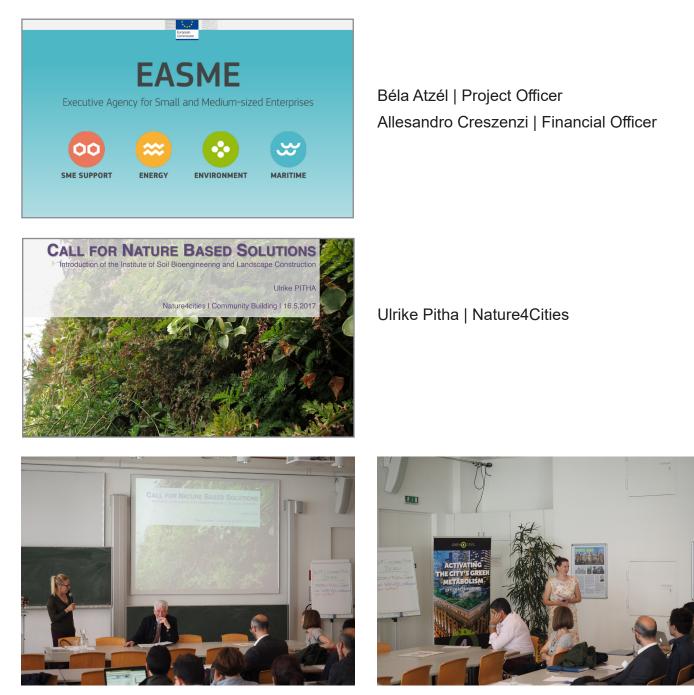






2.2 DAY TWO: Community building day

The second day, the community building day, started with a skype interposition from the project officer Béla Atzél as well as the Financial Officer Allesandro Creszenzi and was followed by an official conference welcome by the hosts; the leader of the institute for landscaping and bioengineering, the rectorate of the university of Natural Resources and Life Sciences of Vienna as well as a key speaker.







2.2.1 Method of the community building day

The community building day was divided in four thematic fields to guide the communication and the exchange of experiences within the conference:

- Platforms/Communications
- Financing Mechanisms
- Governance
- Neighborhood

The community building day succeeded a participatory approach, so in every thematic field a key note speech as attunement for everyone was held followed by four parallel story corners that could be topic center selected.

The purpose of the key note and the story corners was to bring together different experiences and paint a vivid picture of existing good practice of different thematic fields (Governance, Neighborhood, Financing Mechanism and Platforms/Communication) and to share success factors, challenges and lessons learned. Due to the setting and the special task given to the audience, it also opens the room for attentive listening and gave the lecturer the chance to receive an in-depth feed-back from your audience.

Moreover, the audience was invited to fill in so called 'Harvest sheets' to collect project facts, challenges, lessons learned and intended next steps. These harvest sheets now build a very good basis for further activities.

programme DAY	2 GREEN 4 CITIES CI	A CITIES
	sks Community Building arie Stangl BOKU	
8:00	WELCOME University of Natural Resources and Life Sciences (BOKU) Exner-Haus Peter-Jordan-Straße 82, 1190 Vienna	Room EXNH HS05
8:30-10:00	ADDRESS TO THE CONSORTIUM VIA SKYPE Project Officer Béla Atzél Financial Officer Alessandro Crescenzi	Room EXNH HS0 <i>5</i>
10:00-10:30	OFFICIAL CONFERENCE WELCOME BY HOST Moderation Univ.Prof. DIDr. Rosemarie Stangl Rectorate Univ.Prof. Dr.Dr. h.c. Hubert Dürrstein Key Speaker Priv.Doz. DIDr. Ulrike Pitha	Room EXNH HS05
10:30-11:00	BREAK Coffee & Fruits COMMUNITY BUILDING	

Key Note

Presentation of real projects from different thematic fields, persons (also from outside the project) and point of views in order to start a lively discussion and to start bonding (Creation of a Community of Practice)

Story Corner

á 15 minutes presentation of a key person and a 25 minute discussion (with a structured form of discussion). Each story corner is staffed with a flipchart and a rapporteur so that each story corner is producing a presentable result. The flipcharts will be exposed all together at the main meeting room.





11:15-11:50	Story Corner Milano Roberta Donati	Cava Nord	•
	Szeged Miklós Oláh	City development projects	
	Çankaya Eylem Koçak, Tunga Köroglu	Bademlidere Project	
	Madrid Alberto Egido Viciana	Growing Communities	
12:00-13:00	THEMATIC FIELD: NEIGHBOURH		loom
12:00-12:15	Key Presentation Christopher Raymond Landscape Plai	F	XNH HS05
	Citizen engagement in environmental p Insights from Australia, Europe and Car	lanning and management:	
12:15-12:50	Story Corner	• • • • • •	
	Plante & Cité Pauline Laille ELCA Yves Heirman	Green roof implementation Implementing Gl	
	KARLS concept Esther Blaimschein, Sir		
		Urban Gardening	
	BOKU Florian Reinwald	Biotpe City is smart	•
13:00-14:30	LUNCH BREAK		- Room
	Gaumenfreundinnen - Buffet at the B	OKU	Aula
	Lunch is included		Schwackhöferhau
14:30-15:30	THEMATIC FIELD: PLATFORMS	5/COMMUNICATION	Room
14:30-14:45	Key Presentation		EXNH HS05
	Marie Yeroyanni European Commis Innovating Cities with nature-based s		
14:45-15:20	Story Corner		
1 11 10 10:20	GREEN4CITIES Bernhard Scharf	GREEN PASS [®]	•
	CEEweb Agnes Zolyomi	Getting people on board	•
	vfi:: Daniel Podmirseg	vertical farm institute	
	NATURVATION Attila Katona	good practices and future prospects	•
15:30-16:30	THEMATIC FIELD: FINANCING	MECHANISMS	Deem
15:30-15:45	Key Presentation		– Room EXNH HS05
	Mónica A. Altamirano Deltares Alternative financing options for Gree	en Infrastructure	
15:45-16:20	Story Corner		
	TECHMETALL Sascha Haas	Darwingasse	
	Energy Changes Clemens Plöchl Green Rocket Xiaoao Dong	SEFIPA Crowdfunding best practices	
	EFB Dusty Gedge	How do we finance green	
16:30-17:00	SUMMARY & PROJECT GENER	AL ASSEMBLY	Pear
	Rosemarie Stangl BOKU		– Room EXNH HS05
	OFFICIAL END - DAY 2		
17:15-18:30	FIRE CHAT AND OPEN MICRO	PHONE	Deserve
	panel discussion with Rosemarie Stan free participation but only possible aft	-	- Room Faculty Club
FOLLOWING	WINE AND MUSIC		
	Cozy atmosphere with wine and music	<u>.</u>	Room Faculty Club
	coly annosphere with white and most		





3 Thematic fields

Following results of the community building day are structured after the four thematic fields:

- Platforms/Communications
- Financing Mechanisms
- Governance
- Neighborhood

3.1 Platforms/Communication

The topic 'Platform and Communication' is a very crucial one. The aim was to find out which platforms and communication trails already exist and where it is possible to put to further efforts.

3.1.1 Key Presentation Platforms/Communications



Marie Yeroyanni | European Commission - DG Research & Innovation

Innovation Cities with nature-based solutions

Horizon 2020 intends to be challenge-driven and solutions-oriented. This is a premise because our economies and societies obviously become vulnerable to the impacts of climate change – including the key resource of water. Therefor we need to increase imperatively resilience to climate change while at the same time have to drastically cut our CO2 emissions.

In parallel, our natural resources and ecosystems are in crisis and risk being unable to provide us with the services we take for granted: clean air and water, recreational areas for leisure and relaxation, healthy forests that act as carbon sinks, productive soil...

We are facing a serious challenge in ensuring the sustainable supply and use of the raw materials that are crucial for our economies and way of life.

Societal Challenge 5 ("Climate action, environment, resource efficiency and raw materials") is about finding solutions to these challenges. Not just furthering our knowledge for the sake of knowledge – other parts of H2020 have that aim. But harnessing knowledge to come up with effective solutions that can be put into practice. Systemic urban innovation is connecting digital, physical, natural and social solutions for cities.







3.1.2 Story Corner Platforms/Communications

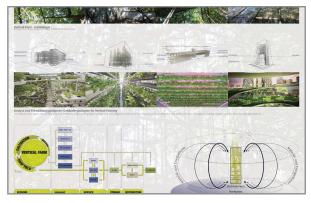
In the thematic field of Platforms & Communications three Story Corners took place. Bernard Scharf presented 'GREEN**PASS**', Attila Katona 'Naturvation' and Daniel Podmirseg the 'vertical-farminstitute':







NATURVATION | Attila Katona



vfi | Daniel Podmirseg





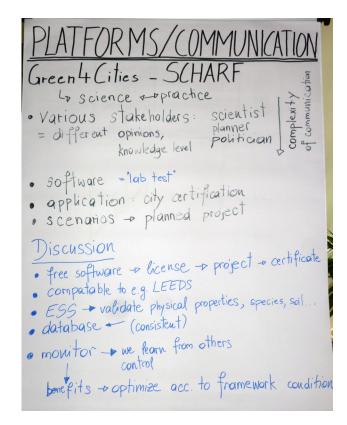
Green4Cities | Bernhard Scharf

Berhard Scharf presented the goals of the Green4Cities platform and introduced the new GREENPASS to the audience. GREENPASS is a microclimatic simulation model that quantifies multiple effects of NBS. It bridges the distance between scientists and planners. It provides different levels of analysis (city level, object level) in different project phases and certificates buildings in terms of NBS conditions. It covers a toolbox, a software as well as applications to analyze the urban structure and it s potential for NBS improvement.

The development of SMART CITIES is highly complex demanding for interdisciplinary co-creative work – all under cost and time pressure. Many decisions are made subjectively and/or based on individual experience. GREEN**PASS** can help to make decision objective and comprehensible for everyone.

HARVEST SHEET GREEN (CITIES) HATURE

ľ	DATE 16 May 2017 Session: Platforms (Commencinication Working Group Title: Green HCI 175 Moderatory: Bernhard Scharf
	Session: Martorms (Commencation
	Working Group Title: Green + CIFIES
l	Moderator/s: Bernhand Schart
	Participants:
	PROJECT FACTS
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	Assessment over Saftware (uneenpass) providing certifianti. CHALLENGES Difference System
l	Vilterent interests.
	- neints of view
	- Portins of View
	LESSONS LEARNED
	NEXT STEPS
	This project has received funding from the European Union's Horizon 2020 research and innovation programme



The discussion that followed was about the financing model of GREEN**PASS**, the compatibility to existing programs and the challenge of providing a consistent database.

Regarding the GREEN**PASS** it can be seen as a challenge that everyone involved share different interests and has another point of view. Furthermore it makes a great difference whether data is provided for scientists or practitioners. Every profession has its own perceptions and language.





5* May 2017		
e: PLATFORMS / COMMUNICP ng Group Table: & GREENPASS® nator/s: Bunhand Schanf joants: -	(กำ ก ป	
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ALLENGES		
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EXT STEPS		

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Session: Working G Moderator Participant	roup Title: C	ieferias	Conces		
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NEXT S	TEPS				
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Naturvation | Attila Katona

The NATURVATION project has three goals:

- Advancing Assessment: moving beyond existing approaches that tend to prioritize the ecosystem service benefits of NBS targeting single issues to new processes and techniques capable of assessing the multiple and systemic impacts of NBS in the urban arena, identifying where competing priorities and conflicting values emerge, and accounting for the values and priorities of urban stakeholders.
- Enabling Innovation: scaling up from smallscale, fragmented interventions by recognising the ways in which the innovation potential of NBS can be supported through governance, partnerships, business and finance models as well as public participation to overcome the systemic conditions that currently limit their use.
- Realising Potential: overcoming the implementation gap in the urban arena by building momentum for NBS in through creating partnerships, knowledge platform, processes and tools required to support policy, business and civil society organisations in cities across Europe.

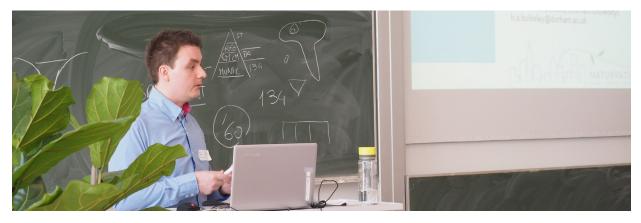






The biggest challenge had been the definition of the topics and the comparison and also to provide comparable database.

The most important lesson learned is that its necessary to gain trust to get cooperations, informations and interviews.



verticalfarminstitute (vfi) | Daniel Podmirseg

The vertical farminstitute (vfi) is a private institute for research and projects on vertical farming. The goal of the institute is to develop sustainable alternatives to comply the (regional) food supply without an augmentation in land use.

In the view of Daniel Podmirseg there are two questions we have to answer very short-term:

- · How many land do we need for food supply?
- How many energy do we need for food supply?

Now there is 29% of land used for food supply.

Vertical farming is tested on tomatoes because they need lot's of light - if it works on tomatoes it will work on every plant.

After the vfi it is crucial that there are all components for food supply are brought together in a so called 'food supply chain' in order to reduce ways of transport to its minimum.

PLATFORMS/COMMUNICATION 1445-1520 VFI - DANIEL PODMIRSEG 2 questions -> tow many land do we re food supry do we need - + four many -> Example : tomatoes - because need latis liper - sig that works - everything will wor o use climatic situation that exists -> 29% of land for food supply =D (rucial that we come out tita efficient ways of food production possibility to bring to gather all things d supply in one building FOOD SUPPLY CHAIN = b It's possible to imprement it

The discussion was about whether vertical farming is a NBS or not because its a very artificial production methods in the opinion of several participants. Yet, the less land is used for food supply, the more place can be provided for NBS. 300m² of vertical farming produces the same amount of food as 1,2ha land.

As a next step the idea of circular economy should be developed further, as well as aquaponics and hydroponic techniques. Simulation methods should be densified and the food production should get adapted to all possible surfaces.





PLOTCONG/COMMUNICATION
Discussion
-> water: important to reduce fresh water we
> Water: implicit is still in the experimental > vertical form is still in the experimental phase > there is a prototype planned till 2020 phase > there is a prototype planned till 2020
phase -> fhere to a prototype pranned fill dozo
-> Servial simulation software for receased
on vfi.
> VFI-> definition wormally any indoor production
-> VPI-> definition wormelly any indoor production -> bider definition: every food production in the city
> Prototypes wether aquapanie or hydrophonie
> flow.)
- it's not a mature based Drution -
It's cultural -> agriculture as well is culture
s transformation of landrage
-> more land for nature based Blution when law need for land for food production
when less med for land for food production
-> 300 m² Ufi produce the same amount of
food I as 1,2 he land . That so is come in
FOOD SAMME CARIN LAND IN THE STORE
- Vertical animal farming

DATE: 16* May 2017
Session: Dariel Poolis Seg
Working Group Title:
Participants:
PROJECT FACTS
Skyscrapes - Tomato - LED highlich - Disastes
3 Kut 1 leson = Tood ner day 2300 42 Ecol. Ladmin / hilly
30% minory Erepy = Food System
30% minory leggy = Food System Kod supre 29% , Dowo we used for Agricule of
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CHALLENGES
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40 1102 Forest : 10% us, br Apr burt dawn
- Super-efficient how Production autorit
LESSONS LEARNED
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NEXT STEPS
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-enforce idea of circular ecohomy Aguaparics Water (cloud ryshews) coursive with Androponics
SMLXL Scale
- Densitying Simulation methods
- In door which which on
Expand total moduction to other surjous
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730468

3.2 Financing Mechanisms

Financing Mechanisms represent an important premise for the success of Nature- Based Solutions. Therefor the get-together of different stakeholders in the field of finance was crucial as well as the discussion about different financing models throughout the conference.

3.2.1 Key Presentation Financing Mechanisms



Mónica A. Altamirano | Deltares Alternative financing options for Green Infrastructures





Mónica Altamirano presented diifferent financial instruments:

- PES and PWS
- Water Funds: private versus public payment schemes
- Water stewardship companies engaging in Beyond The Fence actions

Financing NBS good governance in her opinion is the key.

The governments are setting up the institutional and regulatory framework & safeguards - then following key ingredients have to be fulfilled:

- Transparency in collection
- Use of intended goals
- Clear scientific base to guide work of River Basin Agencies and committees
- Rigorous hydrologic monitoring program to communicate & improve outcomes of investments
- Models/tools to understand the vulnerabilities under CC
- Accountability at all levels



3.2.2 Story Corner Financing Mechanisms

In the thematic field of Financing Mechanism following Story Corners took place: Clemens Pöchl presented the Sustainable Energy Financing Platform Austria (SEFIPA), Xiaoao Dong introduced Green Rocket, a crowdfonding platform to the audience, Sascha Haas from Techmetall different school-projects and Dusty Gedge, the head of the European Federation of Green Roof Associations – E F B presented examples of new financing models such as split water fees oder governmental/municipal funding or incentive programs.

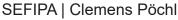






klimafassade ...our contribution to climate protection (Sascha Haas ©2017)

techmelall









EFB | Dusty Gedge

SEFIPA | Clemens Pöchl

Clemens Pöchl presented the Sustainable Energy Financing Platform Austria (SEFIPA) that is a national platform to optimize energy related subsidy system in Austria. The aim of the project is to improve the attractivity and the funding possibilities of sustainable energy investments.

Due to the fact that nobody attended Clemens Pöchls story corner, there cannot be given further information to this project in this context.





GREEN ROCKET | Xiaoao Dong

Green Rocket is a crowdfundig platform in Austria and Germany to participate in projects with environmental related topics such as energy, mobility,

There already exist several best practice examples like the 'Sunny bag' or the 'Tiroler Glückspilze'.

Lessons learned:

In general the regional connection is very important. The possibility of a financial mix, means crowdfunding and bank financing, is adviced by Xiaoao Dong.

For a successful crowdfunding project the news flow matters, as well as PR and planning. It is to avoid a bad or no crowdfunding video, overconfidence in the own network, a wrong framework of the offer or wrong parameter settings.

FINANCING MECHANISM GREEN ROCKET - XIgoao Dong for emproy -> Platfoin - Crowd-funding hubility, purma + - marketing network growth of capital » In Austria: Alternative Financial -> investment 5000 €/12 month -> une: 10 1/2 of our financial autor > BEST PRACTISE -> Sung Bay (Solar Bag) -> increase when people see the project is successif -> Tyroler alickspilze -rare numbersus the to save finit

BEST PRACTISE -> flydro concet => Personal angagement -> tad (offered) LEDONS LEARNED -> Overconfidence in the aim retwork > ho/bad acudfuding video > project eg. 1 Mio revenue in wordt core > offer her a wrong fromework > Wrong parameter settings DISCUSSION -> regional connection very important -> don't have to ask crows investor for their opinion + possibility of combination of crowd funding + bank financing -> FINANCIAL MIX





TECHMETALL | Sascha Haas

The company develops greenwalls since several years and participates in a couple of school projects. The motivation of these projects is to bring the kids closer to the nature.

Amongst others they were crowdfunding financed. One quarter of the costs are covered, then the producer comes up with the rest. As in every financing process also in crowdfunding projects it is crucial to come up with the right selling arguments at the right moment.

The next steps could be renting or leasing of green walls. Moreover Sascha Haas and Techmetall make an effort to find different channels of distribution.

FINANCING MECHANISM TECHMETALL - Sascha Haas project facts. - how to finance school projects - Expensive - how to tell - 4 years ago - cooperation with Schools - already several crowd funding projects challenges: -kids closer to nature - The of costs covered, then producer comes up with the rest (suppliers - catering Good) lessions learned - right selling arguments -greenery as part of education next steps -renting leasing -different channels of distribution



HARVEST	SHEET		
---------	-------	--	--

DATE: 16" May 2017
session: Harcha Hoas
Working Group Title:
Moderator/s:
Participants:
PROJECT FACTS
TROBETTACIO
- low to finance Projects in School environment
- If exprensive: how can you tell it
- (WEDS apo: Jacol Copriding Elected
There are acceled when the least
- several projects in and finding green wells kolices
Scope: 6 10. K coll of project
CHALLENGES
- how can kids get doke to native?
- developping a good tales approach
- how a nested a project with is not hindle
The fill of cost covered, then moduces coursup with roof:
1219 - porents council I a suppliers
Growd Barrat, he is helvered carle in anal IR (Caling / food)
LESSONS LEARNED (Mony) Popul from school == give
- right selling a primerts
(reasons delar - Fids back to wake
- greenery as port of education
- Ground punding possibility reliant to Pokeholder adminity
- David it is huerocratic A
NEXT STEPS
- Pubridies of the Scholars gets to explain
- renning ledging moved to public dollas
- green washird thread
- Use different donnels of distriction
- Pumplosizio hitre and leaves &
the second secon
- Jourig House (forme due)
This project has received funding from the European Union's Harizon 2020 research and innovation programme under grant agreement No 730468





EFB | Dusty Gedges

The European Federation of Green Roof Association was founded by Austria, Germany, Switzerland in 1997. Now there exist 16 member associations. The members actively promote the use of green roofs and green facades throughout Europe.

Dusty Gedges gave several best practice examples of new financing models such as split water fees oder governmental/municipal funding oder incentive progams.

Renting green as well is one of a possible financing model for the future in his opinion.

The discussion showed that there are still only a few cities having public financed greening projects and that there is a urgent need of more communication of the benefits of 'the green'. It's necessary to making people see the benefits, e.g. the costs of energy with or without green...

FINANCING MECHANISM EFB - Dusty Gerdge Important history = 1982 no green infrastructur a lora gain of biodiversite, Planning & hot a finance mechanism How to get busikess doing things differently Technical report : Beopporting London Plan policy Existing projects financed by the city Washington DC giern infrastructure projects Credits for public projects -> Greening up green neighbourhoods Renting green? Office time - greeningo up to get more competitive Different ways to guara mechanismy



Discussion Not many cities, having projects for public financing growing projects Noting people feel comproble > havy ways like clubs manage +++, green aloo a benefit ->positive for business Monitoring Diodiversity? What is interesting about green roops? Smort city > Kelning people see the benefit. (Cost of energy with or without green...)





6 ⁶ May 2017	DATE: 16* May 2017	DATE: 16* May 2017
MANAD formation Dusty Geolge	Sension Financing Helhanisms - Urban Green Infrastructure	sension Financing Mechanismus
ng Group Title:	Working Group Title: Moderatoria Dusty Clegel (EFB) = not our expert a	Working Group Title:
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3.3 Governance

Governance is one of the key factors for the success of NBS. If important stakeholders from governments and municipalities as well as privates act in concert a lot can be achieved.

3.3.1 Key Presentations Governance

Isabel Wieshofer (MA18) presented the urban strategy plan for Vienna 'STEP 2025'. One of the key statements of the plan is the augmentation of life-quality when connecting green and open space.

Jürgen Preiss (MA22) introduced the Urban Heat Island Strategyplan for Vienna to the audience. The strategy plan on Urban Heat Island provides lots of data and lists numerous activities to avoid Urban Heat Islands in Vienna.



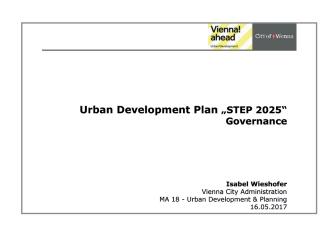
Isabel Wieshofer | MA 18



Jürgen Preiss | MA 18







Isabel Wieshofer | MA 18 Urban Development Plan 'STEP 2025'



Jürgen Preiss | MA 18 Urban Heat Islands Strategy Plan Vienna

3.3.2 Story Corner Governance

In the thematic field of Governance Roberto Donati gave an overview of a city development project in Milano as well as of one project on local scale. Miklós Oláh presented a project in Szeged. Eylem Kocak and Tunga Köroglu introduced the Bademlidere project in the city of Ankara to the audience and Jürgen Preiss explained the situation in Vienna.



Milano | Roberto Donati



Szeged | Miklós Oláh





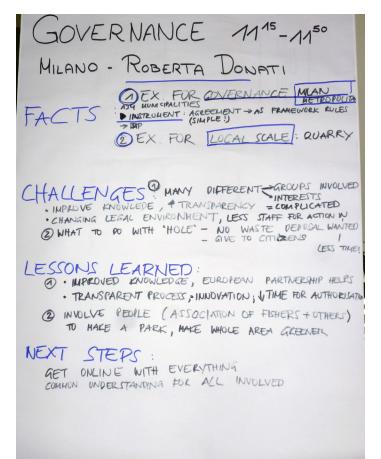


Çankaya | Eylem Koçak, Tunga Köroglu



Vienna | Jürgen Preiss

Milano | Roberto Donati



Roberto Donati gave two examples:

- 1. Example for Governance: Milan Metropolitan - 134 municipalities involved
- 2. Example on local scale: Quarry

Challenges:

- Many different groups are involved
- Improvement of knowledge, transparency = complicated
- Changing legal environment

Lessons learned:

- Improved knowledge, European partnership helps
- transparency of the whole process
- involvement of people

Next steps:

- get online
- common understanding for all involved





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Szeged | Miklós Oláh

City development project

Project facts:

- get & share experience in city development
- special city structure avenues and boulvards

Challenges:

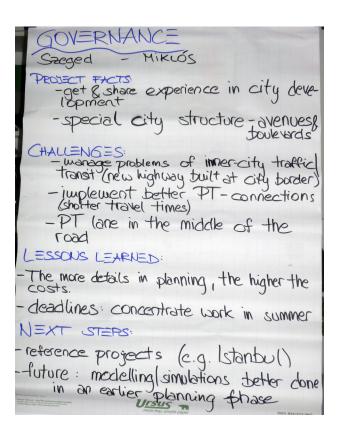
- manage problems of the inner city traffic!
- transit there is a new highway build at the city border
- implement better PT connections
- improvement for pedestrians/cyclists
- PT lane in the middle of the road

Lessons learned:

- The more detail in planning, the higher the costs
- Deadlines: concentrate work in summer

Next steps:

- Consider reference projects (e.g. Istanbul)
- A better modelling/simulation in an earlier planning phase







Çankaya | Eylem Koçak, Tunga Köroglu

Bademlidere Project

Creation of a 68ha natural area for Ankara's citizens using only natural materials and natural solutions (e.g. solar panels, stormwater management, green roof education center,...).

Goals:

- recreation of original habitats + vegetation
- implement existing structures
- cause awareness
- open to public + protect nature

on the European Union's Horizon 2020 re under crost concernent No. 735448

Investment: about 3 Mio. \$

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Vienna | Jürgen Preiss

Facts:

In Vienna exists a development plan as a mission statement. It includes a professional communication strategy and can be seen as an activation process. Several stakeholders are involved in the process. The urban strategy plan for 2025 (STEP) is ordered by politicans, means top-down. In contrast the Urban Heat Island Strategyplan for Vienna (UHI) that is based on a bottom-up incentive.

Lessons learned:

- · managing as an act regulations are not always needed
- waiting for the right moment good preperation before!
- · communication on different levels
- · cocreation of different stakeholders together
- · there are lot's of motivated people in the city administration
- · Public-Private-Partnerships are a chance splitting costs

GOVERNAN Vienna - PREISS FACTS > Communication strategy (afre pr course. - activation process > involvement of stakeholders is city society (politics) experts administration Citizeus -> development place as winion statement -> Tier Ranking (aspects) -> ordered by politicians -> STEP -> 1)HI: bottom up L> 100 heat-island messures -> risk

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3.4 Neighborhood

In the neighborhood a lot can be done: urban gardening projects, city quarter development projects and lot's of other incentives make an important contribution to the satisfaction of people everyday lifes.

3.4.1 Key Presentation Neighborhood



Christopher Raymond | Landscape Planning Group SLU

Citizen engagement in environmental planning and management;

Insights from Australia, Europe and Canada

Christopher Raymond presented three international projects with a focus on citizen engagement:

- Lower Hunter region of New South Wales, Australia (PPGIS, paper) 2012 Combining residents' social values for conservation with those of policymakers and scien tists
- City of Helsinki, Finland (PPGIS, online) 2013 Combining resident's activity preferences, unpleasant experiences and user profiles into an environmental justice index
- City of Winnipeg, Canada (semi-structured interviews) 2017 Exploring the co-benefits of gardening for biodiversity conservation



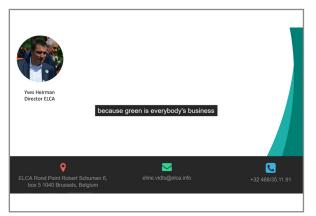




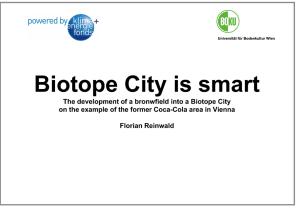


3.4.2 Story Corner Neighboorhood

The story corners regarding Neighborhood treated diverse topics: Yves Heirman presented the European Landscape Contractors Association (ELCA). Florian Reinwald reported about a city quarter development project in the South of Vienna. Ester Blaimschein and Simone Rongitsch introduced the KARLSconcept to the audience, that has been the first urban gardening incentive in Vienna. Plante & Cité was presented by Pauline Laille.



ELCA | Yves Heirman



BOKU | Florian Reinwald



KARLS concept | Esther Blaimschein, Simone Rongitsch



Plante & Cité| Pauline Laille





ELCA | Yves Heirman

Yves Heirman presented the European Landscape Contractors Association (ELCA).

Facts:

ELCA was founded in 1963 to promote cooperations as well as the exchange of information and experience in Europe. The topics of ELCA are: Green City, Climate Change, Landscape mitigation and flooding, Biosecurity, Soil protection, Invasive species, Green purchasing of Government contracts, Education and training to improve the skills shortage across the EU. Now it counts 24 member countries.

Challenges:

- Benefits of green are difficult to sell because the beneficiary is not necessarily the payer. Moreover its difficult to quantify exactly the worth of NBS-benefits.
- Awareness is needed.
- There is a time-lap between the research and the implementation process.
- It is necessary to translate benefits to different groups in a different way!
- political courage is necessary.

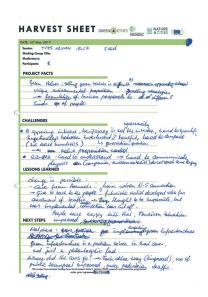
Next steps

- · Go ahead no turning back to grey
- Get used to new ways of thinking, acting,...
- improve selling strategies!!!

NEIGHBOURHOOD 1215-1250
ELCA- YES HEIMAN EUEDIEAN UNDEAPE CONTRACTORS ASSOCIATION FACTS: 24 COUNTRIES, COMPANY COMMITTEE
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· GO AHEAD - NO TURNING BACK TO GREY- GREEN . · POLITICAL COURAGE NECESSARY
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what did they say to the drivers?







BOKU | Florian Reinwald

Florian Reinwald introduced the Biotope City project to the audience. Biotope City is an interdisciplinary urban planning project in the south of Vienna with focus on NBS such as green facades, green roofs, stormwater management, ...

Facts:

- trans-disciplinary team
- idea goes back to the famous architect Harry Glück
- huge area former Coca Cola factory
- · development of urban concept
- all participants in the project had to sign the masterplan
- even reuse of former greenroof

Challenges:

- every level of planning process is very important
- keep the high quality from the beginning quality management
- discussion process
- legal and process-related restrictions
- open technical questions
- find new solutions

Discussion

- participation in a developing project is very difficult - efforts to force a quarter management were done, because its important that people maintain the green infrastructure
- there is a mission statement on participation in Vienna - but it's not obligatory
- now it's the crucial phase between planning and tendering
- green infrastructure gets more and more important to developers
- important to show the value of green infrastructure

PROJECT FACT

- -> transdisciplinary team
- -> idea goes back to Harry Guick
- -> Biotope city carcept
- -> set of criteria
- -> situated famer Coca Cola area
- -> development of urban concept
- -> all participants in the project
- had to sign the masterplan
- -> reuse of greenroot

KEY CHALLENGES

- -> every level of planning process is very important
- -> keep the high quality from the beginning
- -> discussion process
- -> quality management
- -> legal & process related restrictions
- -> open technical questions
- -s find new solutions

DISCUSSION

participation in a developing projects very difficult
tried to force quarter management
Important that people maintain the green infraverment
there is a mission statement
participation in Vienna -s
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now crucial phase between planning and tendesing
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NEXT STEPS

This project hos received functing from the Surspean Union's Horizon 2020 research and inscruption programme under gram equivalence No 720458

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This project has nearlined funding from the European Union's Horizon 2020 research and Innovatio under growt agreement Nix 730468

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LESSONS LEARNED

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CHALLENGES 22 The every Lay "Normal" but comp-bracted conditions among the challenge.

LESSONS LEARNED

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This project has received funcing from the European Uklon's Horloon 2020 rea under great agreement his 720-668





KARLS concept | Esther Blaimschein, Simone Rongitsch

Karls Garden was the first urban gardening project in Vienna, Austria 2009 - now there are over 70 urban gardens.

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2017 70-projects Niem	
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(Bienos Aires)	(Yienna)
Masterplan -> different arcas, rootops	First urban-gardening project Difficult to implement
Start: 2012 -> 2017 over 12,000 m2	Difficult to implement
Start: 2012 - 2017 over 12000	Many public events + festival
People were poor, high crime rate at stort	Space for doing researches
Now crime rate decreased people grow	Only volunteers => no rentable spaces
their own food, strong community overnment provides seeds	spaces
manuel provides seeds	Sponsors provide money ->
Oletument Linear	Non-profit project
	Problems :- homeless people sleeping
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	find places to skep
	there-sprogram started to find places to skep -Waste-s get rid of it
	Hansdyes

Facts:

- first urban gardening project - difficult to implement
- now: many public events + festivals
- space for doing research •
- there are no rentable spaces only volunteers
- sponsors provide money non-profit project
- 18 fruit trees
- very interesting as a model: La huerta (Bue-• nos Aires) - urban gardening also can be top down: there is a masterplan for different areas, rooftops, ...,1,2ha - high crime rate at the start - now crime rate decreased, strong community, government provides seeds

Challenges:

- homeless people started to find places to sleep
- waste

Lessons learned:

- the fundraising video is too long and repetitive
- economic activities are not allowed •
- you don't need a lot of money, but a lot of time

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Plante & Cité| Pauline Laille



Project facts:

- research on rooftops under real conditions
- monitoring + participation
- 2009 they counted 1 Mio square meters of greenroofs
- The big question is which plants are suitable for extensive rooftops...
- 2008-2014: training of 18 roof top specialists
- cooperation: 3-5 Workshops/year
- communication: results are open to all

Challenges:

- different conditions depending on the plant
- · climate change
- · finding persons who collect the data
- how much data is enough?

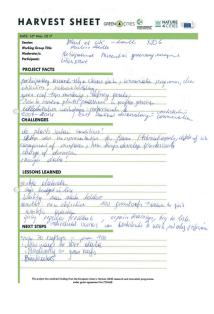
Lessons learned:

- · involve greenroof experts to the monitoring
- partnerships with professionals

Next steps:

- change how things are delivered to professionals and the industry
- research on invasive species
- research on bio-indicators
- construction & planning of green roofs is constantly changing and so does this project

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3 Executive Summary

At the community building day of Nature4Cities a lot of good practice examples were collected and there was a lot of space for interdisciplinary exchange between experts in the field of NBS. It showed that the implementation of NBS in the daily urban routine needs several different approaches and knowhow. The governance top down is as important as the neighborhood bottom up and it's crucial that the benefits of NBS are made visible and are attributed a monetary value by cities, by planners and citizens. However, all possibilities to finance NBS and green infrastructure should be captured, e.g. crowdfunding platforms. In this phase of the implementation of NBS it is required to keep up communication strings and continue to install knowledge platforms to exchange data and successful implementing strategies. The community building day were one step in that direction.

Some more impressions...





























4 Conclusion

Nature-Based Solutions (NBS) are not only a necessary alternative for conventional solutions but also need a new governance approach. Moreover, the implementation of NBS in daily urban routine needs a change of mindset. To reach this goal a group of people who are multiplicators for NBS needs to be formed. Community building days are very important to bring together people from divergent backgrounds who operate in the field of NBS. It's crucial for the success of the implementation of NBS in modern cities to link people from different sectors (government, industry, education, planning etc.) for developing corporate ideas and visions and create a common platform/communication channel, to explore common financing and governance models as well as ways to involve the neighborhoods in the process. Thus, further community building days have to be organized and a big conference meeting at the end of the project period.







5 Appendix

5.1 List of participants



Participation List - Nature4Cities General Meeting 15th and 16th May 2017 - Vienna



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