Catalyzing Action: EU Sustainable Lifestyles Roadmap & Action Plan 2012-2050







Funded under Socio-economic Sciences & Humanities

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Team Leader, Sustainable Lifestyles
CSCP - Centre on Sustainable
Consumption and Production





About the Collaborating Centre on Sustainable Consumption & Production (CSCP)

Mission Vision & Mandate



CSCP 2.0 Sustainable Lifestyles, Products & Infrastructure, Entrepreneurship & Business Models Rio+20: Global
Networks on
Sustainable Lifestyles,
Innovation &
Entrepreneurship

Investing in Sustainable Living



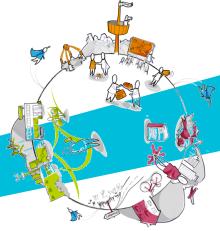
UNEP

2012 / 2013

2012







CSCP at a glance

CSCP Focus Areas & the way we work





Lifestyles



Products & Infrastructure



Business & Innovation

Action Research & Experimentation

Skills Development & Training

Networking & Match-Making

CSCP's Global Network

For Cooperation & Dialog on SCP

Unilever

quadia

Rabobank

regional & lokal

Europa & national

international



中国光华科技基金会

NCPC

norden

Nordic Council of Ministers

THE OVALUE WEB

FUNDS FOR GOOD



Coordinating Partner:

CONSUMPTION AND PRODUCTION











Funding Scheme:













Objectives

- Develop a Vision and Scenarios of possible sustainable living futures
- Translate sustainability into meaning for our diverse daily lifestyle options and choice
- Develop an Action Roadmap and suggest a Future Research **Agenda**

Advisors



Project WP Elements

Baseline Research & Primary Household Research

Promising Practice via Social Platform & Online Community

Vision & Scenarios for SL

Roadmap of Actions for SL

Online Community Platform



Moving







Consuming



Society



Entrepreneurship



Visualisation



Policy

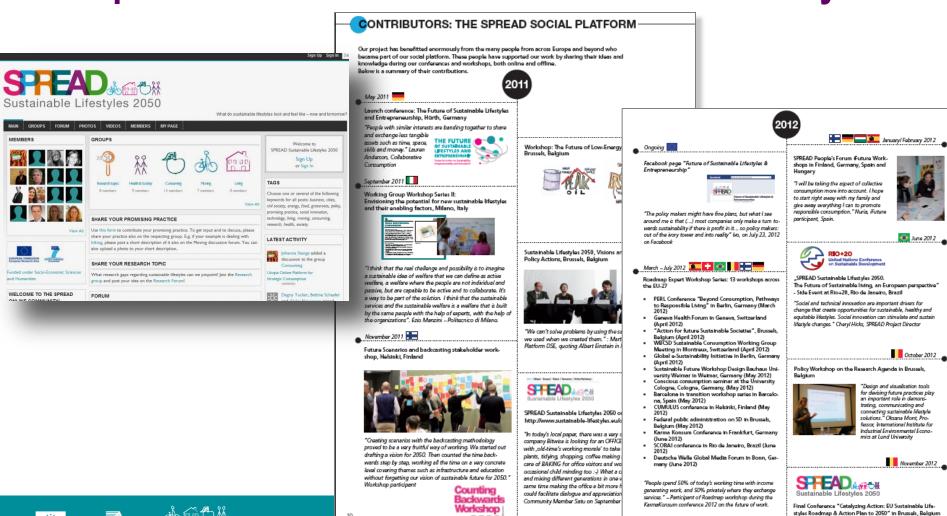






Human-Centered, Systemic & Participatory Approach

European Social Platform on Sustainable Lifestyles



Funded under Socio-economic Sciences & Humanities

The highly interactive conference will bring together policy makers, business, chil society, researchers, designers and many others in Brussels. For the first time, the SPREAD Sustainable Lifestyles 2050 European Social Plat-

form project will present the roadmap and action plan

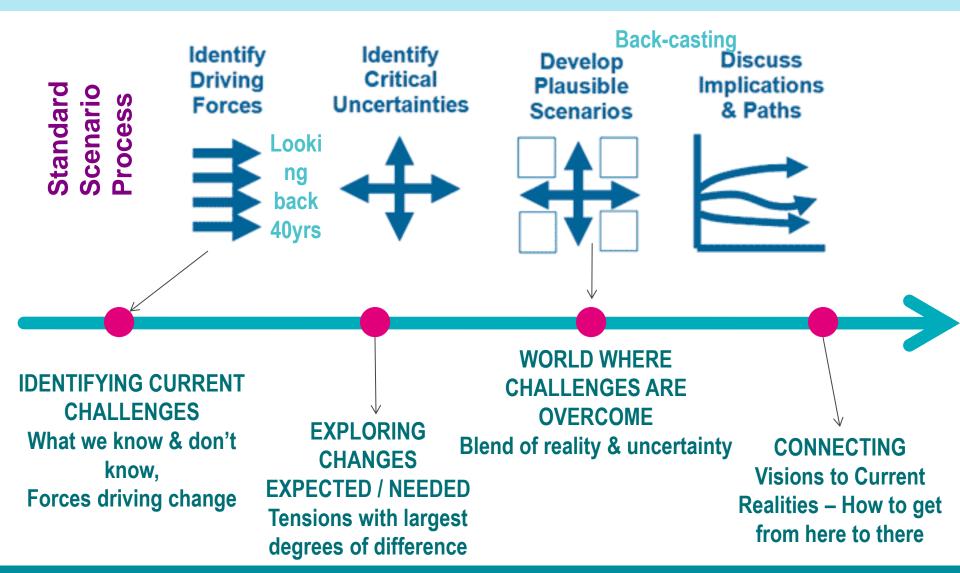








Scenario Development Process





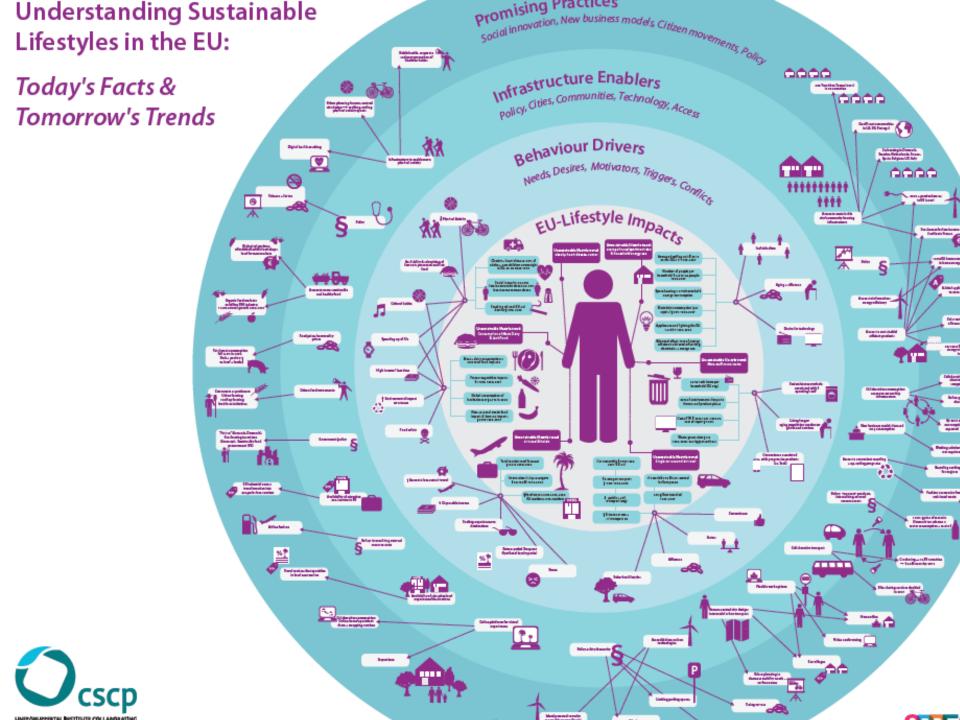


Deliverable 1 – Current Challenges

Understanding the impacts of our current lifestyles







Food, Mobility, & Housing

Health & Tourism

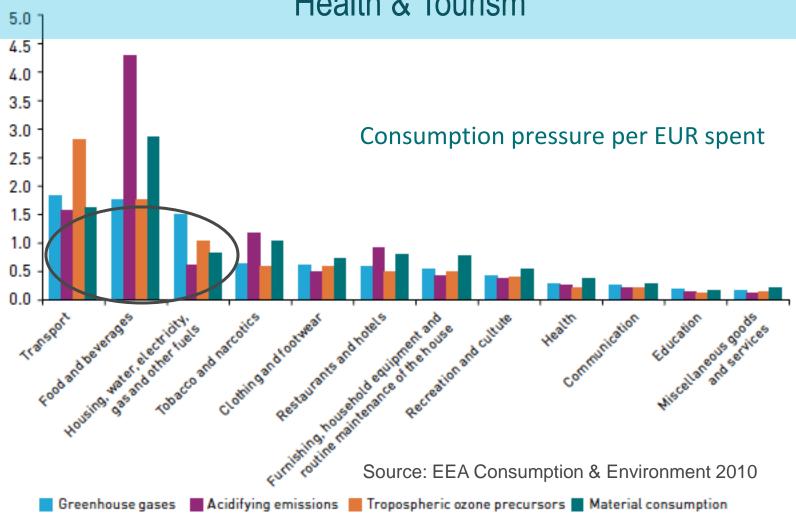


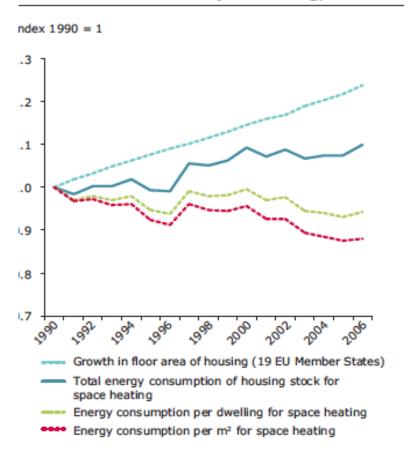




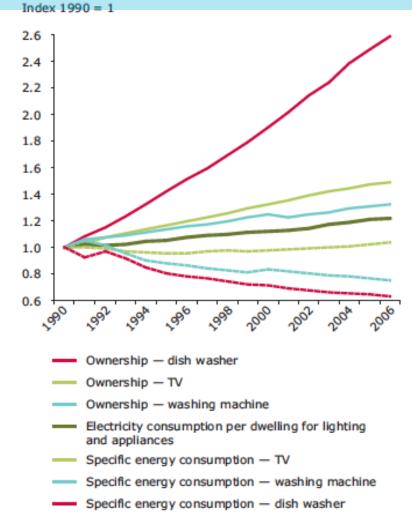
Figure 5.3

Housing – energy use

igure 5.2 Trends in heating energy consumption and energy efficiency of housing, EU-27





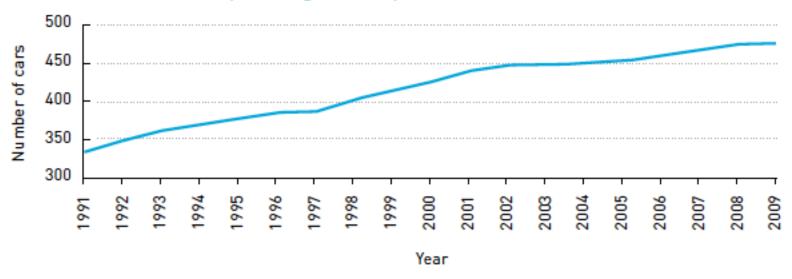






Mobility – single car use dependency

Figure 13 Number of passenger cars per thousand inhabitants in the EU27



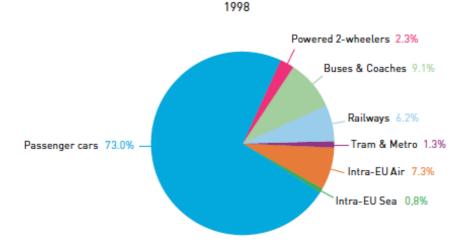
Source: EUROSTAT



Mobility

- increase in passenger cars '98-'08

Figure 14 Modal split in intra-EU27 passenger transport in 1998 and in 2008



Powered 2-wheelers 2.4% Buses & Coaches 8.4% Railways 6.3% -Tram & Metro 1.4% Passenger cars 72.4% -- Intra-EU Air 8.6% Intra-EU Sea 0.8%

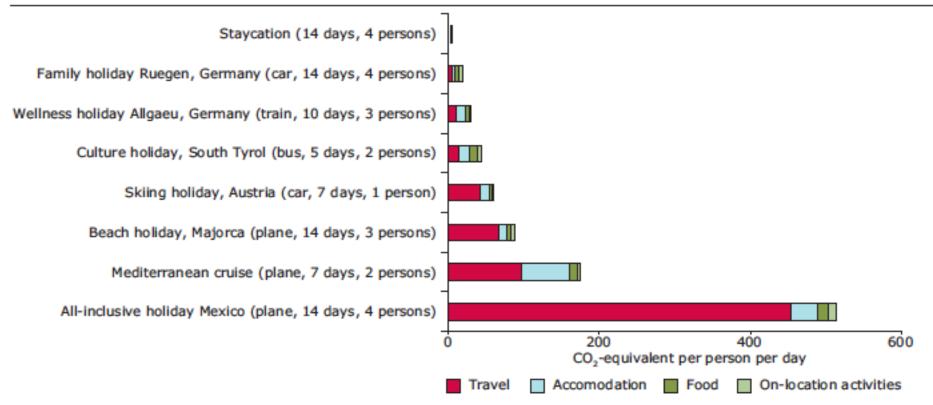
2008

Source: EC 2011b, Eurostat, DG MOVE.



Mobility & Tourism – long haul air travel

Figure 7.2 GHG emissions for some types of holiday trips from Germany, CO₂-equivalent per person per day



Note: Staycation means a holiday at home with holiday activities locally.

Source: WWF, 2009.



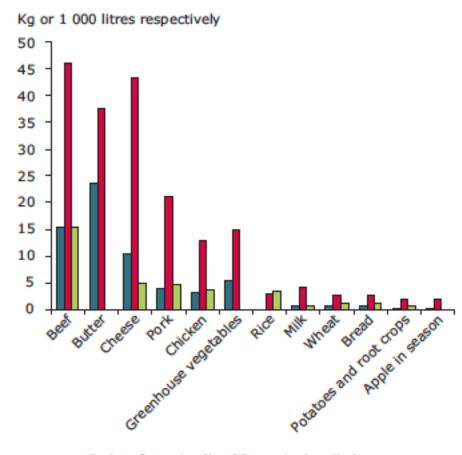


Food – meat & dairy





Figure 4.2 Carbon, material and water footprint for different types of food



- Carbon footprint (kg CO₂-equivalent/kg)
- Material input (kg/kg)
- Water footprint (1000 litres/kg)

Source: Carbon: Angervall et al., 2008; Danish EPA, 2006; Fritsch and Eberle, 2007; Hirschfeld et al., 2008; Williams et al., 2006; Århus University, 2007; Material input: Kotakorpi et al., 2008; Water: Water Footprint

Network, 2010.

2011 SPREAD Baseline Research:

Unsustainable Lifestyle Trends & Hot Spots

40-60 tonne EU lifestyle

(total resource use)



Food:

Meat & dairy - 24% of all food impacts

(acidification emissions & material use)



Housing: Heating/cooling, water use, appliance &

electronics use - 40% of total energy

Mobility & Tourism: Single car use (35% increase)

Air travel (9% increase)

Health & Well-being: obesity (increased intake of sugars),

heart disease (fatty foods and smoking)

cancers (exposure hazardous chemicals)





Deliverable 2 – Current Trends

Recognizing citizen movements & social innovation

Identifying promising practice





Emergent Promising Practice - EU

INTELLIGENT FASHION COLLECTION

Chiara, 27, stylist



pret-a-porter fashion makes a point of value in creative multifunctionality and transformability: size and shape of the cloths are designed to be personalised and be fully modular and recombinable, materials are chosen to always action role in production.



Consuming

URBAN FOOD DISTRICT PLANNING

Martha, 36, mother of a 3 children family

"... we have the chance to live in a city where the municipality has decided to introduce the food district planning initiative. Our food mix must be at least nearly 50% locally produced and 10% self-produced among neighbours: garlic is growing on the balcony, cucumbers downstairs, tomatoes come from neighbours' vegetable gardens, commuters bring fresh dairy products from suburban areas into downtown. I still go to local supermarkets, once in a while I may buy some Imported food..."

How does it work?





S-PEAD AND AND REAL PROPERTY OF THE PARTY OF

SFFEAD

URBAN WELLBEING

INDICATORS

"...I have the privilege of studying in a town that is day-by-day more shining for its wellbeing! On my way home, today, I was satonished by the brightness of the urban subpture in the square: wowlf is seens that our capability of saving resources is dramatically increasing as well as overall domestic happiness. This is the town where I want to live and work in my future. It is so beautiful and makes me so proud!"

low does it work?

 the overall resource consumption and happiness factor is calculated and shown in real time in the public spaces of the city, thanks to urban sculptures and installations that raise public awareness about ective sustainable performance and capability to produce

> (5) b buildings or surfaces display web contents (tags, pictures, ips) according to a semantic search engine. People can ask ris and the city tells and shows how it's feeling or it gives so shout if if notize.

s about life today; e a city performs well, the more it is made beautiful and by its sculptures and sensitive art pieces in public space. This cities in healthy competitions.



Commer



HIGH EFFICIENCY INTER-MODALITY

Jimmy, 54 years, manager

"...this week was busy. From Boston to Washington DC with the high speed train, then to Jacksonville and back. I didn't really feel like changing from one city to the other: In Washington I directly went with an e-bike from the platform to the client. I had to make an important call and so I left the bike on autopilot. In the afternoon I had to make it to Jacksonville, but my meeting went on endlessly. Fortunately the train operator organized me a car-pooling for the train I missed which took me right in front of the office..."



GREEN GYM

Bob, 28-year-old, architect

RESPONSIBLE PATIENTS

Since i discovered this severe disorters i monitori il timore di a sessore installed in my amm. It is constantily watched by my hospital and it rings my phone when insulin is love. finanky speaking it is united and ic on fonger about it in my daily livini But what is readly helping me to foce this life-changing disea is that this monitoring application is provided by my cooking club i always loved to cook, exchange recipes and create new

How does it work?

 integrated systems of patient monitoring and automated health care facilitate delay himing for patients with filer-changing diseases;
 such self-medication systems are transparent for the patients that could enjoy qual normal file;
 systems are also designed to put the patient in an active and learning position, facility go to in kinker theses and therefore developing more



REST: IMMOBILTY LIVING

Alberto, 37 years, employee and married

... This year with my wife we decided to take part in REST, the Educed and Sustainable Transport training program. The idea simple make your life better where you are instead of striving to excape for lessure and holidays. We did not change our life and in fact but our mindset: logan to read the books; piledup for years on the shelves of my library and my wife start art research instead of seeking for week-ends and mini-tripist and we have been saving up our allocated mobility carbon credits for the last 3 years for a slow trip in Chinal...*

low does it work?

mobility carbon credits limitation per person and per year; promotion of low transport intensive activities and travel dieting

programs; limitation to campaigns promoting mobility from holiday travel to

urban journeys; development of slow tourism based on boat travel and bicycle



Comment

CLEAN MONEY

Andrea, 37-year-old, father of the 3 children family
"...toxes on personal income rose like mad to cover droughts
here and sunamis there and catastrophes after silv
urbanization projects in mega-cities: now i prefer to earn less,
with green and fair investments but I want to know what my
money is used for and it want to be able to judge myself if the
projects financed will be good or not for the future of my kids..."

How does it work?

huge costs induced by bad sustainable management and catastrophe related increases induce people to pay more and more attention to what is done with their money:

after many financial crises due to lack of investment regulations,

transparency is the norm that also benefits sustainable projects; sustainable responsibility, ethical wealth and fair banking criteria is the norm on the financial market; investments are made only for sustainable proposals.



Comments

Unio dans it made

energy or to purify water."

sustainable active life turns normal gyms into functional sport centres with different goals, such as producing energy; conventional gym sports evolved into growing food activities (selfproduction), doing gym in a natural farming place instead of indoors, taking part in jobtting or harvesting, aerobic cleaning activities to the

"...we took part this week-end in the Patagonia harvesting rally: I ran so much carrying wheat sheaves, oh my god I was

exhausted. I am accustomed to one hour of gym-plotting here

in the agricultural public park nearby. It's a classic orchard gym

organized with all Decathlon sets that provide us with a third of

our fresh veggies in summer. But here, the whole city was taking

part in the rally, carrying the wheat to the mill. And this way, city bakeries make bread all year... In winter, or when it rains, I go

to a regular fitness centre instead, where I exercise to produce

Comments

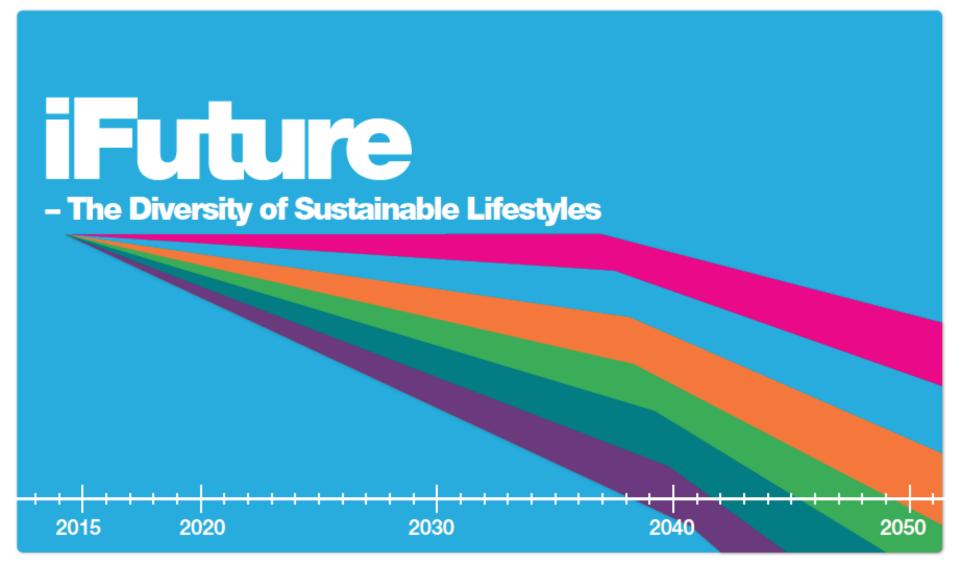
Deliverable 3 – Key Drivers & Barriers

Understanding behaviour drivers & aspirations

Defining a sustainable lifestyle in material terms







D7.3 People's forum workshop summaries





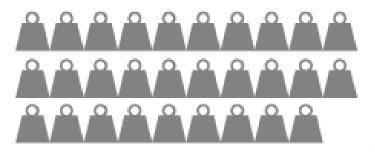




Introducing... The Sustainable Lifestyle Material Footprint

THE AVERAGE EUROPEAN LIFESTYLE, TODAY (PER YEAR)

- 10 000 km car
- 2 000 km public transport
- 546 kg of food with 19% meat, fish and seafood
- 37 m² person heated living space
- Resources for other consumption items and leisure time
- MATERIAL FOOTPRINT OF ABOUT
 29 000 KG



SUSTAINABLE EUROPEAN LIFESTYLE, 2050 (PER YEAR)

- 10 000 km by means other than private automobile
- 500 kg of mostly vegetarian food
- 20 m²/person in a zero-energy house
- 1000 kWh of wind and solar power
- Fewer but sufficient household appliances and other equipment
- Some resources for leisure time and other purposes.
- MATERIAL FOOTPRINT OF ABOUT
 8 000 KG







A new European-wide network of "villages in towns" is established. Members of the network establish urban farming cooperatives in their neighbourhoods and start negotiating

with municipalities, real estate owners and

farming purposes.

inhabitants for access to under-used land for





"This is our guild canteen where people of the town enjoy their lunches and dinners."

HOUSEHOLD GOODS

FOODS AND BEVERAGES

EVERYBAY MOBILITY AND TOURISM

53 228 кв

When Rosa first moved to the town, she, , , , bought a big flat. Soon she started to rent out some of the rooms for her guild's visitors and eventually to her guild colleagues. Also taking care of the daily routines became much easier.

7 990 Kg

ELECTRICITY AND HEAT

> When one of her colleagues mentioned to her about a local solar panel expert, skilled to fit the panels to the conditions in Spain, she started to use his services regularly.

> > 2020

2/3 of the inhabitants live in neighborhoods that are defined according to a profession and a guild. These neighborhoods also form the basic political units that have the right to elect their own representstives to the regional council.

BUILT HOUSING

2012

2030

2040

205

......



Deliverable 4

Journey to the Future & Backcasting to the Present

Envisioning more sustainable futures Supporting sustainable living

Societies where current challenges to sustainable living have been overcome





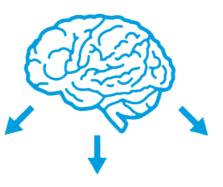






Four scenarios 2050 Societies that support sustainable living

Pandemic technology



Singular Super Champions

Governing the commons



Meritocratic society



Local loops

Empathetic communities



Human-centric society

Endemic technology





Pandemic technology



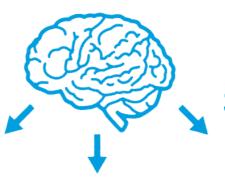






Four scenario landscapes

Pandemic technology



Singular Super Champions

Governing the commons



Meritocratic society



Local loops

Empathetic communities



Human-centric society

Endemic technology





The Singular Super Elite

Society will need to reward those who give more than they take.

The pressure on the welfare state will be too great.

Well-being business is growing. people will sought after happiness and better life and pay more for it.

A few large corporations run the global food chains. They have a long strategic a pproach and they understand that unhealthy food will reduce their market size.



We will need norms and legislation set by politicians.

Meat is not necessary for people. It has become very expensive luxury good, most people do not have it as often as twice a week. Finland produces meat but for export purposes.

Singular Super Champions scenario narrative – how did it all happen?

- The European Green New Deal
- Transparency gets the prices right
- The upoyoling economy
- Learning, not earning.

Those differs are depicted as events on the timeline.

What is life like in Singular Super Champions

What changes believes 2012 and 2007

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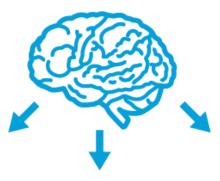
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Lauren Trending In over releasible and induly







Singular Super Champions

Gatekeepers for lifestyle changes



Manufacturing and retail companies

...provide insreparent Mecyc data on their products.



New digital service providers

...help contument to transiste open lifecycle and lodgetet data into errart consumer choices.



Super Champion lead user group

... change the status system behind consumer culture an opened best practices on contribution to



Urban planners

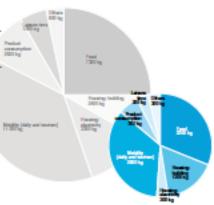
...cmule urban environments that attract people and enable deman, surtainable living.



hetary experts ...provide deballed inform

Six-pack of most influential lifestyle triggers

- Transparent product data allows people to understand the environmental cost of their personal
 consumer choices and their overall lifestyle. Comparing the austainability of choices of food, housing, mobility and consumer goods in 2050 is as easy as comparing prices was in 2012.
- Road pricing and the overall rise of transportation costs change housing preferences. People
 prefer short commuting distances, well-serviced reighbourhoods and a better access to speciousness.
- Improved design of public spaces and flats draws people to densely populated areas. In all countries, areas around city centres turn into the most desirable places to live. People are willing to trade off a spacious dwelling for the status and comfort provided by a flat in a central location.
- New dietary alternatives emerge from a combination of rising food prices and increased health consciousness. Media, primary education and catering companies help environmentally rational dieta become a mainstream lifestyle option.
- Appa for personal informatica, educational software, online learning retworks and a diversified educational services sector become attractive and influence people's spending. As a result, there is less desire for material goods, as more people have excellent skills in making rational choices.
- New upcycling approaches to consumer goods have changed product lifecycles. All material goods are sold with an additional deposit on their material resources, which encourages people to nature used materials to the retailer.



The average material footprint of a European in 2000 in the Singular Super Champions account \$4000 kg per person in a year) compared to the average material footprint in 2007 (56-000 kg).







Governing the Commons



Behaviour change due to increased global solidarity and awareness of the need for sustainable development, technological innovation

Communities of interest to share knowledge.

We will need to be investing heavily in transport infrastructures as people become increasingly interconnected.

FESTIAPSH

I believe that most of the major technological innovations are already underway, and while these will become more universally available, we will be relying more and more on human interactions and relationships

The interconnectedness of the global community requires an increase in global solidarity and appreaciation of unity in diversity

As cheap labour no longer exists anywhere in the world.



Governing the Commons

Governing the Commons scenario narrative – how did it all happen?

- The 3rd industrial revolution
- Ubitech economy
- Botter work creates well-being
- Wikidemocracy

These drivers are decicled as events on the timeline.

What is life like in Governing the Commons?

What dranger between 2012 and 2007

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Gatekeepers for lifestyle changes



...first organise into decision makes that affect local and



Agile marketing agencies
...mits used the per information
available in purchasing decisions.



Construction companies
...tat offing and sale energy



Garning industry

_greet in significance and
tame into a giant crowdeouring recharitant that combines
playing and work.



Smart mobility companies
_.come up with personalized adutions that let people optimize their mobility based on their model.

Six-pack of most influential lifestyle triggers

- All appliances and buildings are equipped with the technology to advise their users on amart use and maintenance requirements. Smart, energy efficient use is the default option. With the help of diverse and plentful data about their own and their peers' homes, people receive feedback that encourages them to repair their homes so they reach maximum energy efficiency.
- Smart mobility services change the way people plan their time, and how they combine routes and modes of transport. These services help to optimize public transportation use and enable the development of vehicle and ride sharing achiernes.
- Ubiquitous technologies give rise to a new ecosystem of Peer-to-Peer—services that are available for people whenever they need or want them. These services with retroliting homes or choosing sustainable dietary options, among other things.
- A new generation of virtual reality and online communities becomes popular, which means a decrease in needs for large living spaces, furniture and even foodstuffs.
- The scale up of 3D-printing changes the way people seek self-actualisation. Consuming goods designed and made by someone else is no longer the most elaborate way to express one's identity and style. Instead, people collectively design the goods they desire and want to be identified with.
- Online networks built on a shared interest in lifestyle issues enable people to realize their potential and to constitute themselves as groups with political power. The example and support of other network members encourages experimentation with new sustainable Heatyle patterns. Cardually these networks and experiments grow into movements that start reforming the political apends.



The average material footprint of a European in 2000 in the Governing the Common scenario (a000 kg per person in a year) companie to the average material footprint in 2007 (25 000 kg).

ROPEAN COMMISSION

Funded under Socio-economic Sciences & Humanities



Local loops 9-9



To eliminate the concept of waste means to design things – products, packaging, and systems – from the very beginning on the understanding that waste does not exist

Cradle-to-Cradle



Local Loops

Local Loops scenario narrative – how did it all happen?

- Poak-oil game-changer
- Rediscovery of local resources
- Local turn
- Craftsman attitude

These differs are depicted as everts on the timeline.

What is life like in the Local Loops?

	What changes between 2012 and 2012
	Intendire is about transmitting and about guide.
	Coffeenship and specialistics are provided frough mutual leading and problem based hereby.
West	Web is sharedwind by expapement with issues and collaboration within and among guides. Hereix and by apolyting design herbing and formalising band subtimes.
City 1	Oliver and invited and formal into their own large.
-	Guilds working and bring in the larger by their one allows already interesting as their larger.
Health	Web places provide health care and ability distance. There are limite highly that all regions agree to priorities with regard to be all years.
	There are limite rights that all regions agree to prioritize with regard to benefit years.
Making .	Doing in the large, is attenual extend by whereil appears, relating introduction and an examining appears.
	Guilf members often him in the same conjulius/hand
Pinal	Positive state and distributes are marked by busing minimal decomposition and neighbourhood surfaces.
	Breegy used for family excitation is splitsked.
	Perspectation is about suffailely and system. Intellige infrastructure is optimized.
	blendy multilly is coming insured process on home delicent. Local funds and long condition are becomed by propin-
Consequition	Companying these industry managers in water the second relates of applicates weeked for up when year and explanated services. Products are made a fit high quality local materials and design. Availability of larving points is limited. All
	products are requirable.

Gatekeepers for lifestyle changes



Jose on local alternation



Profession specific net-

adnowledge their capacity and intunce at a party and networks who have a shared responsibility to



and include repair in their products.

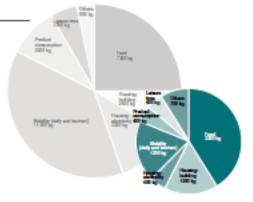


Service industry

lable only as purchs

Six-pack of most influential lifestyle triggers

- Extremely high energy and food prices persuade people to focus their choices on local. and secure alternatives.
- 2. Tight workplace and neighbourhood-based communities enable and encourage people to share spaces and equipment. The need for living space is reduced.
- People live close to their guild peers. Ample service options mean minimal need to commute outside the neighbourhood.
- 4. People prefer appliances, furniture and clothes to be sold as services. Maintenance and adaptation services are improved and they significantly prolong the lifecycle of
- 5. Consumers can no longer make mistakes: policies built on scientifically backed environmental and health objectives eliminate bad choices.
- 6. People set out more. Better food services ensure a healthy diet, adjust portions to optimal size, eliminate food waste and help people focus on their work and social life.



The average material footprint of a European in 2000 in the Local Loops scenario (#000 kg per person in a year) compania to the average material footprint in 2007 (25 000 kg).







Happy Communities



BIG SOCIETY NOT BIG

So, what this is all about is giving people more power and control to improve their lives and their communities.

We need people to act more responsibly, because if you take any problem in our country and you just think: 'Well, what can the government do to sort it out?', that is only ever going to be half of

David Cameron

Happy Communities







Travel like a human.







Empathetic Communities scenario narrative - how did it all happen?

- The system breaks down.
- "We can" generation works.
- Public, private and people (PPP) the new welfere.
- Communitisation of urban planning.

These afters predepicted as events on the timeline.

What is life like in the Empathetic Communities?

What changes between 2012 and 2017 Manager I fearing and having are published and an inflation times. Mark. What happen unblimed toly it halm and people been frough asking for input from unbegues. Harde or much is highly related Birth is religible about lossed and almost contributing to the commenty. City. Where will been appear in term offiger. Parting into one harmed into places of food production. The public space pains great signal. Whey would be after some by the soulse below. Health. Penalign of spalig over spanisk stansieries for health someyalen. This course had the countrylations of a person's Hospita in erer as more important than the annual of grows limit. Local administration priorities health case and healthy biring. They municipally has a heaptid. Healthy thing visites alone personalities between helps boundy. Drive Persing apprehensive properly ratios. People havin shared quarterests and make use of shared spaces. Famil: Greater hand in order benton strates meets hand hand drowns. Family required the special per very law. is middless in production, high importance is also placed as food quality and distribution. Middly Load middly is explanted and less and space is decided to printe orbides. Oil and our interdisciple is adopted to spating. er. Consemption is general invention revelop prospir's laste revolu. Naving, accepting and reviling account prior in reveal ign The manage is appointed amount the publishing of good webs. Food production is prioritized. Experimentation improves on the local bed and high value is given in accountly addition. or of security. Here of security is prevented by connection, should state, composition as and as by health and heal states. PPP updates guarantee providing and security in public and social offices.

Gatekeepers for lifestyle changes



Local leaders from business, politics and civil society

...amorgo at key decision makers pathing for alternatives after the breakstown of the global nyelom.



Architects

. locat on designing or turble for featble and public space.



start co-ope to support self relaancy in energy and food nacurity



Journalists and media preducera

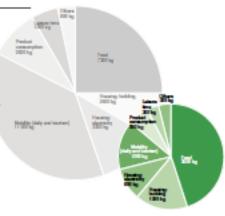
... corcuptualts the new notion of human nature that operads empathy and human contries.



Urban planners July people and communi-

Six-pack of most influential lifestyle triggers

- Rising energy and food prices combined with a long economic downtum lead to people becoming more interested in and aware of the structures that underpin their Heatyle patterns, as well as of alternative, cost-effective solutions to current food, housing and mobility patterns.
- 2. Do-it-yourself (DIY) farming, energy production and retrofiting solutions gain popularity among many of the unemployed. The internet and social networks help apread best practices quickly and create space for alternative economies.
- 3. New local partnerships empower people to shape their neighbourhoods to better facilitate selfsufficiency in food and energy production, and in different forms of communal consumption (shared use of tools, appliances and spaces).
- 4. Health ceases to be an individual issue and becomes a communal one. People practice prevertire healthcare in workplaces and in neighbourhoods together with their peers.
- 5. New tools and services for interior designs make people think about their homes in new ways. The functionality and flexibility of homes are features that people in 2050 are able to compare and improve as easily as people used to compare living space in 2012.
- Occasional shortages change attitudes and expectations. A reduction in food, living space, consumer expenditure, travel and other leasure time activities is compensated for by the richness of social life and a sense of purpose in one's work and communal activities.



The average material foolprint of a European in 2002 in the hathetic Communities scenario (x000 kg per person in a year) companed to the average material footprint in 2007 (29 000 kg).







EU Sustainable Lifestyles Roadmap 2012-2050



BUILDINGS - Energy efficient and comfortable living an

Tough energy efficiency regulations begin

Major collection of

international agreements on

climate and energy Not necessarily treates, but perhaps bilateral and multilateral agreements

40% of emissions are building

Required to be on

increases rapidly

track for 2050

Energy R&D





d to be on track for a sustainable 2050 Energy Efficiency (Buildings and Appliances)

ementation of mandatory minimum efficiency performance standards

Revisit international standards periodically to ensue continous improvement No delays in legislation of strong regulations and enforcement is the most cost-effective policy

Key Areas of International Collaboration: Common standards set to discourage trade in sub efficient appliances. in addition to uilding Fire, Safety and Health

regulations and

International patent

deployment of

onshore wind

protection encouraging

concentrated solar power

combined heat and power

Programmes Javached to develop requisite skills and capacity in the construction sector, to monitor and record the implementation of energy efficiency, and to increase awareness among school children



track for 20

Carbon sequi

funded for ra

deployment

Coming soon ...Nov 2012

MOBILITY - Low carbon

R&D and more deployment for low carbon mobility

ed to be on track for a able 2050. Development and deployment of efficient internal combustion vehicles improve new vehicle carbon intensity up to 30-40%, enabled by better policies and introduction of Electric Vehicles (EV)/ Plug-in Hybrid Electric Vehicles (PHEV)









Panama canal extension completed (2015 breadth of ships Increases to 49m Hones 32 26rel and max length 366m (from



Carbon has a price - cap & trade or carbon tax begin to transform

electric power generation Maybe

a series of multilateral agreements

through a comprehensive treaty or perhaps

ed to be on track for a Transportation energy efficiency: - Mandatory efficiency standards ventually harmonized globally at ighest efficiency level incentives for new technology ther than increasing size, weigh Standards set for medium and any duty trucks (legistics, on

up research into

MATERIALS - Closed-loop society

Accounting standards begin Manufacturing emits more



than one-third of all CO2 Iron, steel & cement account for half of these emissions Chemicals and petrochemicals also make significant contributions



nable 2050 Global business and governments agree on a set of indicators & rules for accounting about resources, energy and materials. These rules establish the true cost of primary and secondary

Global business begins to reduce product sizes, avoid waste in packaging & Increase product lifetime

Validation of MacroVU® Analytics Robert E. Horn, Stanford University hornbob@earthlink.net 415-775-7377

www.sustainable-lifestyles.eu

Deliverable 5 – Vision to Action

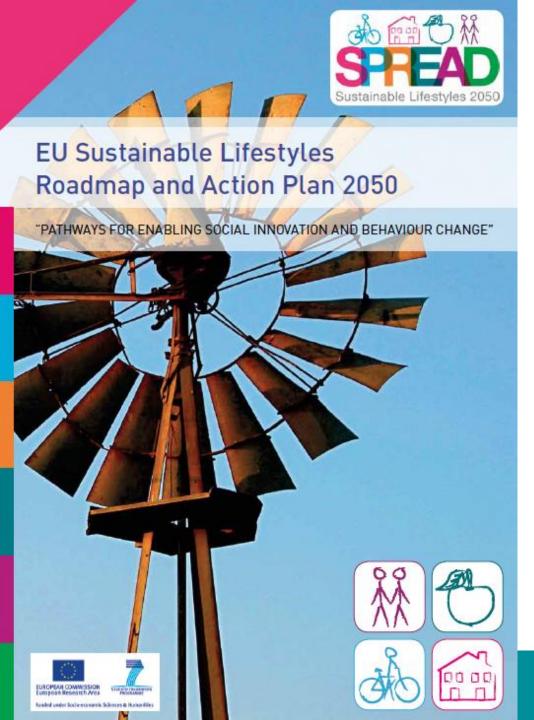
Roadmap & pathways to more sustainable living in Europe by 2050

Must haves & milestones for different societal actors to enable sustainable lifestyles

Policy briefs







The transition to sustainable lifestyles: Must haves & Milestones 2012-2050

POLICY & GOVERNANCE PATHWAY Systemic inclusive and participatory governance and policy decision-making

ECONOMY PATHWAY

Economies and monetary systems

support people and enable sustainable
living

SOCIAL INNOVATION & BEHAVIOUR CHANGE PATHWAY

Opportunities in understanding sustainable lifestyle diversity & rethinking the good life





Key pathway themes at a glance

- \checkmark Human centred, systemic and participatory approaches to policy making to promote sustainable living
- ✓ Individual resource consumption targets incentives and rewards (towards 8000 kg lifestyle footprint)
- ✓ Improvements in policy assessment tools to identify milestones of achievements towards more sustainable living
- √ National ombudspersons for future generations and parliamentary committee on "protecting the future"

actual trend

2012-2015

2020

2025

2050

Key messages from scenarios 2050

Governance: Systemic inclusive and participatory governance and policy decision-making

Policy-making structures are silo-ed vs. systemic which has caused a lack of coherence in policies that might support and foster more sustainable living

Policy assessment tools lack provisions for understanding the systemic risks of sustainability, early warning signals, stress testing and allowance for dynamic change mechanisms. Health and social equity impacts have not been adequately considered

Policy decision-making has been "top-down" which is becoming less relevant and representative of EU society as a whole. It has been lacking provisions for "bottom-up" inclusive decision-making processes

Policies are based on what we want in terms of economic growth, not on what is available in terms of ecological and social capital.

Centralized energy supply dependence on fossil fuels and nuclear energy Renewed European Strategy for Sustainable Development, includes a chapter on sustainable lifestyles - and the provision for personal footprint budgets (8 000 kg).

Cross-sectoral, human-centred approaches to policy-making for sustainable living should include health, agriculture, education, finance, urban planning, social affairs, welfare, trade and transport, energy, environmental protection and climate change.

Review mechanisms implemented

Installation of (inter)national Ombudspersons for future generations. Establishment of parliamentary committee with the specific remit of "protecting the future"

Launch of International Panel on Sustainable Resource Use (IPSRU) which has the mandate to account for and fairly distribute natural resources per country/region

A broadening of the energy supply markets to be inclusive of renewables and cooperatives

- National Strategies on Sustainable Development in all EU countries include a specific chapter on sustainable lifestyles
- Binding resource consumption targets and legal frameworks
- Economic incentives (production & consumption) for sufficiency and quality consumption

Assessment tools are extended to parliament (National and European)

- Participation of civil society in local budget and policies to monitor public investments and support more sustainable lifestyles
- Voluntary code and guidelines for green procurement extended to become legally binding.
- The Future Generations Act is established guaranteeing constitutional rights

IPSRU proposes national quotas and targets for resource use

Energy mix moves towards the phase out of fossil fuels and nuclear energy

Sustainable development and lifestyles strategies form an overarching framework for all policies

European sustainable assessment tools become audited by external organisations to ensure transparency and accountability

A Congress of the Future is established, convened by parliament to provide direction on long-term strategies

Political decision on national resource use quota systems at International Resource Use Summit 2020

Launch of personal carbon and resource card test phases

50% decentralization and democratization (cooperative system) for renewable energy production and diversification of energy sources

Political and societal decisionmaking is systemic, inclusive, long term and visionary

All policy decisions consider systemic risks and warning signals related to sustainability, health and equity through the ubiquitous use of sustainability assessment tools.

National quotas established for

worldwide

National policies for sustainable lifestyles are based on those quotas

the use of resources and energy

European network of renewable energy providers is established as renewable energy comes online in all EU countries Governing the Commons: New political movements have gained power and show resilience in systemic approaches - "wikidemocracy", digital interest networks.

Local Loops: Global networks link local loops

Governing the Commons: Abandon 20th century institutions and top-down governance systems in favour of new bottom up collaborations.

Empathetic communities: Communities, cities and towns govern vs. nation states. Shared and active use / care for public spaces.



actual trend

emerging in complementary

Debt based monetary system

Unbalanced distribution of

production

labour: Widening gaps between

the employed and unemployed

to build for the internalisation of

externalised costs not previously

considered, including the true

value of environmental and

Limited investment in the

infrastructure and sectors

needed to drive sustainable

development and sustainable

Business models that foster and

enable more sustainable living

societal services

lifestyles

regional currencies

Key pathway themes at a glance

innovations for sustainable living

2012-2015

EC position paper outlines plans to

move from a debt based economy

towards a common based economy

New economic models established

based on savings (vs. debt) to fund

Review of privatisation of basic needs,

(i.e. water, healthcare, education)

long term investment

Tax on financial speculation.

being and quality of life.

assets

- ✓ Sustainable economy commission ensures systemic policies and beyond GDP indicators that promote economic development competitiveness and socio-ecological benefits ✓ From a debt based economy to an economy that encourages savings to fund long-term investments in green economy sectors and
- ✓ Testing new financial instruments and facilitating open dialogue between financiers and the public to restore trust
- ✓ Support for alternative economies, currencies, and new business models that support sustainable living

Economy and monetary systems: Support People & Sustainable Living

- Creation of a Sustainable Monetary Systems 25% of all monetary transactions are in complementary

50% of all monetary transactions are in

2020

Unsustainable monetary system. Commission to support national governments currencies, linked to services and local models in the EU complementary currencies linked to services and New evidence of distributed in creating systemic policies combining - Provisions to pay local taxes in regional currencies; pay local markets in the EU economies. Promising practice

economic development with socio-ecological percentage of salaries in local currencies; pay utilities and

 Provisions include systems of cash substitute benefits services in local currencies smartcards, mutual credit accounting system, and - EU establishes a legal framework in which -Evidence of redistributed wealth creation from scaling of community banks

regional complementary money systems can local currencies becomes evident and accepted as dual scale to connect underused resources with

- 25% of businesses are trading in complementary currency systems through wide-spread improvements in unmet needs - such as personal skills, quality of life

community resources, and local authority

-Peer to peer lending structures are formalised

Legal frameworks established to deter financial

speculation on basic needs (i.e. water, health,

education, energy) and to ensure access for all

New business models that enable sustainable living are

rewarde: Access to goods and services are supported and

incentivized as an alternative to ownership: cradle to cradle

business models connect production to consumption; new

technologies enable more sustainable communities; and

sustainable supply chains foster SME infrastructure

- European households save more and borrow less

Evidence of local currencies' ability to reduce CO2 through the promotion of trading in closer

- Responsible lending institutions are proliferated

of both financial and natural capital

proximities of communities The European economy has transitioned away from a debt based economy - in terms

2025

The European economy is fully connected with the global commons Access to basic needs for all (food,

housing, water, energy)

considered a human right -

Income distribution reforms

for all job categories. The gap

become just as competitive in the

externalities internalised into

economic systems at 100%

Top 10 - use of stock exchanges

financial speculation phased out

establish maximum income levels

between lowest and highest salary

- Regional and locally focused companies

ranges capped at a factor of ten

2050

- Tax reporting requirements

currencies to transfer credits

- Acceptance of the state with

internal controls

detailed agreements on accounts

for complementary currencies and

include converting existing local

Governing the commons: Control and management of the global commons.

Key messages from

scenarios 2050

Speculation and privatisation of basic needs

> governmental institutions and starts to influence Labour market reforms bolstered by corporate labour reforms. public sector commitments to reduced -Labour reforms in public institutions show evidence of stimulating employment, creativity, hour work weeks (i.e. 25h/ week). Benefits and improvements to quality and growth in alternative currency systems of life and well-being are monitored

> > partners

- 25h work week established as a standard for

Income distribution reforms in public institutions explore maximum income caps across the EU and reductions in the gap between the lowest and highest salary ranges

-Incentives are introduced to foster innovation into

-Government frameworks support inclusive business

solutions. Incentives for rural populations and the

informal sector reduces costs for governments and

new materials and production chains that address

environmental and social impacts.

supports sustainable lifestyles.

Local Loops: Rise of logistics costs stimulates focus on local production - Local resources have new value

Local Loops: Meritocracy -

professional communities

Governing the Commons: 3D

own production - From mass

printing - Consumers control their

Craftsmanship and

and communicated broadly market as multinationals - Production-on-demand becomes a Alteration of lifestyles by molding Few examples of ownership of The EU actively promotes cooperative EU support of cooperative models through policies viable business model and addresses and recreating identities - Peer to issues associated with overproduction peer service economy has movements in all cities that stimulate social entrepreneurship by default workers in management and - Cradle to cradle value chain business disrupted globalized world of strategies become a minimum standard multinational corporations A rethinking of the GDP-based value Treaties established for the management of GDP focused growth based system to include externalised environmental and social externalities Environmental and social externalities Environmental and social economies. Momentum starts indicators such as environment, well-

Establishment of an Environmental Limits Act internalised into economic systems at 80% 50% reductions in GHG achieved through - 80% reductions in GHG achieved through

investments in green economy sectors. Targeted investments in green economy sectors investments to realize a 100% sustainable energy -Subsidies on fuel removed and inefficiencies system by 2030 together with global trading disincentivised

Businesses create and distribute value. Governing the Commons: DIY Consumers acquire, preserve and share manufacturing value. Governments formalize market Local Loops: Technical frameworks that support new role of concept of local and regional business (value / inclusive). Civil society production systems spots and address market failures. Eco



Key pathway themes at a glance

- √ Community re-design for the people by the people through collaborative innovation
- ✓ Skills for sustainable living become intrinsic elements of formal & informal education
- \checkmark Understanding individual lifestyle behaviour diversity and making sustainable living easy becomes the innovation opportunity of the century
- ✓ Smart ICT accelerates the transition to 8000 kg sustainable lifestyle footprints 2020

actual trend	2012-2015	2020	2025	2050	scenarios 2050		
Social Innovation & Rehavior change:							

Social inflovation & behavior change: Opportunities in Understanding Diversity and Re-thinking the Good Life

Citizen movements towards community initiatives gain momentum across the EU

The power of people's engagement: Non-governmental and civil society organisations foster debate on the need for meaningful change in values and norms in society to promote sustainable consumption values and encourage citizen engagement

Skills for sustainable living have not been adequately considered in formal and informal education systems

Collaborative consumption models and the sharing economy emerge in a perfect storm of increased use of technologically enabled social networks, environmental awareness and the negative impacts of the financial crisis on households

-Deeper understanding of individual lifestyle diversity is required to develop a broad range of solutions and option that support changing behaviour -Addressing / overcoming unsustainable status symbols

Models of community self-sufficiency are explored and supported -- in terms of resources and new publicprivate linkages

2042 2045

- Proactive mechanisms for behaviour change that support more sustainable living lead to a more participative society (i.e. through immediate feedback and monitoring systems)
- Support for coalition building amongst stakeholders and the academic community to foster the practical applications of scientific knowledge
- -Advocacy for alternative ways to measure societal development and economic progress rise on the political agenda
- Schools become multi-functional community centers and sharing platforms that promote healthy and sustainable lifestyles
- -Knowledge, learning and promising practice for sustainable living starts to be disseminated through the education systems
- -The sharing economy gains momentum across the EU and fosters increased awareness and interest in 'sharing' or having access to goods and services vs. owning
- Increased visibility of individual lifestyle footprints (consumption levels and resource use) kick-starts pro-active individual initiatives to bring lifestyle footprints to more sustainable levels
- Increased awareness of health, well-being and equity is a societal leader for change

projects"

- Media, communications and public campaigns are supported by policy to spotlight sustainable living experiments and "light house

Innovative urban and community planning processes are supported by policies - - with focus on participatory processes, equity and sustainability

Assessment tools are extended to parliament (National and European)

Smart ICT/technological innovation (web and mobile) play a critical role in building the infrastructure for large-scale, sharing communities of the future

- Sustainability and skills for sustainable living become an intrinsic element of formal and informal education
- Community based skills and education projects for sustainable living fostered and supported -New business and trades skills - that will be needed in future sustainable societies - are explored at higher education and secondary education

levels

- -Most neighbourhoods have now established sharing centers & design
- -Products are built to last und can be repaired
- -Global best practice examples of sustainable living SPREAD to Europe (communicated via social network channels) and become fashionable and desirable - from food, to personal mobility homes, fashion and
- -Communications and advertising laws are updated to consider sustainable living practice and minimise the promotion of harmful

- Products and services are designed for collective use and collaboration -Sharing centres are common in communities across the EU

- 80% of all European cities establish an inclusive and participatory budget commission open to all stakeholders -New indicators are implemented at the city level to measure societal development and overall wellbeing
- -Education systems shift to active learning & cross curriculum learning -Teacher training promotes creativity -Students are encouraged to be curious, challenge, be creative
- -Co-creation of dynamic curricula based on dialogue between different actors in society and teachers Political decision on national resource use quota systems at International Resource Use Summit 2020
- Most of goods are shared or leased and not owned -10 years of warranty on consumer

goods

-Sustainable living is the new normal -Public and private communications campaigns only promote sustainable living on a daily basis and through all media and communication channels

Local Loops: Solutions and life improvements are focused locally vs global

Local Loops: Energy crisis and scarcity

has been a catalyst to re-evaluate

lifestyles and wellbeing needs

Key messages from

European cities support sustainable living through strong social networks and pro-active, participatory decision-making open to all stakeholders

2050

Students think critically, creatively. innovatively and are responsible citizens. Active learning is promoted and supported

Singular Super Champions: Learning, achieving, and self mastery. Universal access to education. Moral agreement for continuous development of skills for sustainable societies

Former shopping malls are repurposed into community cultural centres

Global Footprint Overshoot Day = 31 December (Europeans are living within the resource limits of one planet)





Key pathway themes at a glance

- √"Re-boot" of individual diets, household food waste and the food production system
- ✓ Human-centred lifestyle approach to urban planning and the transition to ubiquitous zero-net energy homes
- √ Right-sizing individual mobility needs by providing safe, equitable, accessible and sustainable choice

2020

✓ Sustainable societies that support 8000 kg lifestyles integrate environmental sustainability with health, wellbeing and social equity.

Sustainable consuming

Food:

- Unsustainable diets: Meat and dairy consumption accounts for 24% of total food consumption impacts; consumption of processed foods are increasing; food waste is increasing; and lifestyle-related health risks are rising - obesity, heart disease and cancers

actual trend

- Unsustainable food production systems: Significant increases in food imports to the EU in the last 2 decades (meat 120%, cereals 83%, frozen vegetables 174%, exotic foods); environmental and ecosystems' impacts of intensive agriculture, destructive and overfishing; and increasing use of chemicals in food production

- EU governments support bio food, local producers and review agro-business subsidies

2012-2015

- Tax schemes deter unhealthy food (salt, sugar, processed levels) and environmental damaging products (polluter pays principle). Increased visibility of unsustainable products
- Sustainable food options become the norm in public procurement
- Labels show the origin of food products and make sustainability/health implications clear.
- Vegie-days reach the mainstream at work (office canteens), at home, and in communities
- Farmers markets become popular as communities see the benefits in easy access to fresh produce and support of local farming businesses Increased awareness of healthy diets and nutrition that reduces environmental impacts and GHG (i.e. the LiveWell plate)
- Review of cost/benefit scenarios for the cancellation of external debts of developing countries with the aim to support shifts from export oriented economies to self-sufficiency

- 30% of fresh vegetables & fruits are locally produced and sold in local markets & supermarkets
- New policy mechanisms encourage the "right-sizing" of meat consumption to more sustainable levels - i.e. externalities (environmental degradation, CO2, soil degradation, water use, sewage etc) are internalised to reflect the "real" costs of food,
- Food waste on the household level is decreasing due to education and public awareness campaigns

especially of meat

- Limited import and export of food based on the kilometers the food travelled
- Community and urban gardens are popularized
- -Revised policy controls for increased transparency in regards to GMO foods and information on additives
- -National consumption quotas are introduced in conjunction with personal sustainable lifestyle footprint targets (8000 kg)

Tax incentives for locally produced food & services across the EU

2025

Weekly meat days replace weekly veggie days as more balanced diets (with less meat and dairy) become the societal norm

Outputs from organic farming and conversion to sustainable farming practices show steady increases since 2012 - Preference for fresh foods replace processed foods and there is a zero-waste culture as social and technological innovations in the food production system have enabled efficiencies, improvements and easier access for consumers

2050

- "Fast food tax" policies have increased awareness of unhealthy foods and catalyzed widespread behaviour change towards healthier diets
- 90% of food is produced locally and is organic or sustainably farmed. Food processing becomes regional
- here has been a global shift to self-sufficiency in terms of food

Local Loops: Solutions and life improvements are focused locally vs globally.

Key messages from

the scenarios 2050

Empathic communities: Widespread unemployment

drives experiments to improve living conditions through local energy and food production Peer to peer services grow through social innovation and with strong leadership from entrepreneurs, community leaders, new foundations and local currencies Cooperatives become providers of local education. health and social services, as well as local infrastructure -Active use of public space promotes community kitchens and healthy living

Sustainable living

- Increasing number of households (e.g. more single-person households)
- Increasing individual living spaces
- Increasing consumption of energy and water despite recent energy efficiency gains in household appliances
- Growing number of electricity consuming appliances and devices in households

- -New houses: More ambitious regulations on housing development infrastructure such as renewable energy obligations for private housing
- Home renovations: Subsidies at the EU level for energy-saving renovations (i.e. insulation) -Public buildings walk the talk with plans to

transition all assets to "passive" buildings

- -Optimised performance standards for buildings, homes and appliances - such as individual metering and feedback systems or provisions for shared housing options - increase user efficiency
- Vicinity goes hand in hand with efficient housing, as energy savings achieved through the design and construction of efficient buildings and appliances are preconditions for dense neighbourhoods

- -New houses: Public and private building becomes passive as the standard across the EU
- -Home renovations: 20% increase in energy saving home renovations since 2015 creates a flourishing sector. Particular focus and incentives to accelerate renovations for low socioeconomic neighbourhoods
- -New forms of co-housing become trendy

All new houses in the EU are

40% increase in energy saving home renovations coincides with significant increases in new jobs in the building and renovations sectors

Single Super Champions:

Tech enables smaller homes, end of single car use dependency

Governing the commons:

Built environment - chips and sensors enable smart living

Local Loops

Driver - radical rise in resource prices and scarcity. Local regions self sufficient in key resources - builds / scale of Eco vial legs





Key pathway themes at a glance

- √"Re-boot" of individual diets, household food waste and the food production system
- √ Human-centred lifestyle approach to urban planning and the transition to ubiquitous zero-net energy homes
- \checkmark Right-sizing individual mobility needs by providing safe, equitable, accessible and sustainable choice

2020

✓ Sustainable societies that support 8000 kg lifestyles integrate environmental sustainability with health, wellbeing and social equity.

Sustai	inabl	e mo	oving

Increasing numbers of passenger cars

actual trend

- Oil dependency (a consequence of passenger car use)
- Increasing mobility needs related to urban sprawl and urban structures that favour car use (e.g. shopping facilities in the urban periphery)
- Rising air travel and cheaper air

-Investments in public transport becomes priority for governments across the EU.

2012-2015

-New taxes on cars discourage private transport and incentivize car sharing initiatives

-New regulations stipulate the phase out of petrolbased vehicles with phase in of hybrid models by 2015 and renewables / electric by 2020 -Investments in future mobility infrastructure (electric vehicle docking stations etc)

- -Transportation of goods optimized (no empty trucks), accountability (fines) and monitoring systems established
- Increased taxation on short-haul flights (i.e. 600 km)

-Smart intermodal transport infrastructure solutions link air, rail, road and personal transport options significantly increasing efficiency and convenience for the user

-Communication strategies influence behaviour shifts in users from current transport preferences to widespread use of intermodal options

-City and community design integrates future mobility systems thinking to include provisions for short distances between local services to eliminate the need for transport where possible -New systems for transport of goods underground is in its pilot phase around Europe starting with Switzerland

Car free cities are established as a norm in Europe enabled by intermodal personal transport access for

2025

Transport of goods underground, people above ground enabled by new technology and infrastructure tested 2015-2025

Increased taxation on shorthaul flights (1000 km) Public transport becomes the common and preferred transport option across the EU. (by 80%)

2050

Intercontinental flights reduced significantly (by 80%)

Cycling becomes the predominant mobility option for inner-city distances

Singular Super Champions:

Key messages from

the scenarios 2050

Treaties from 2035 provide incentives for new materials and production, the removal of subsidies on fuel, punish inefficiency, and invest in R&D. - Driver - radical rise in resource prices and scarcity.

- Transport especially single car use

- is much more expensive (and often cost prohibitive) than public options - Cradle to cradle bus
- -Extreme urbanization

Empathic communities: Shared possession and active use of public spaces

Sustainable society

Health:

- Increasing levels of obesity and heart disease associated with poor diets and unhealthy lifestyle choices
- Increase in respiratory and heart diseases associated with poor housing conditions
- Increased availability and low costs for highly processed, unhealthy food products

Social inequity:

- Per capita environmental impacts are considerably higher in high income groups vs. lower income groups
- Low income groups are more affected by adverse sustainability impacts (e.g. climate change, local air pollution, rising energy prices)

Increased health promotion programmes in schools and at the work place promote healthy diets and physical activity

New investment in outdoors schools and kindergardens;

Development of local policies and programmes to improve environmental conditions in the most deprived neighbourhoods

Development of policies and social safety nets for the most vulnerable groups: children and old people from low socio-economic groups

-Development of policies and programms for public institutions and business that enable "green" workplaces (including green employees) i.e. outdoor working facilities and support for tele working

- New business models and initiatives for "greening" public institutions and workplaces are consolidated
- More and more communities across the EU are becoming "green and healthy"
- New emphasis on sports in schools as well as the development of social capital in low socio-economic neighbourhoods has led to a decrease in school drop-out rates to below 10%
- The efficiency and availability of flexible education allows 40% of 30-34–year-olds to complete third level education
- Targeted social capital and sustainable jobs development policies and interventions in deprived communities have resulted in 20 million fewer people in or at risk of poverty and social exclusion
- Health indicators show encouraging results in terms of decreasing incidence and prevalence of non-communicable diseases related to lifestyle factors (obesity, diabetes, cardio-vascular diseases) - less than 30% of the adult population being overweight and obese in adult and less than 10% of children being overweight -Targeted interventions for low socio-economic groups have lead to a decrease in obesity with only 15% of low income men and 25% of low income women being obese -Cost savings in the health care system (due to decreased costs for
- -Cost savings in the health care system (due to decreased costs for chronic diseases treatment and long term care), are reinvested in medical technology development and health care insurance support for low income families
- Far less respiratory diseases due to housing conditions and indoor air pollution

Health care systems are sustainable through the integrated efforts of policies and programmes across all sectors and stakeholders in the society, ensuring health and well-being for all

Empathic communities Cooperatives become providers of local education, health, social services, and local infrastructure

Shared possession and active use of public spaces



POLICYBRIEF



Emerging Visions for Future Sustainable Lifestyles.

Preliminary policy considerations from the SPREAD Sustainable Lifestyles 2050 European Social Platform project. Developing pathways to more sustainable living.

First Policy Brief, February 2012

INTRODUCTION

Societal innovation is vital to drive significant changes in the ways that we currently live if we are to increase quality of life for all while reducing the negative environmental and social impacts of human activity. Creativity is needed to achieve the widespread changes that will shift current unsustainable lifestyle trends, and that will provide resilient support systems and infrastructure to make difficult changes easier.

Sustainable lifestyles refer to patterns of behaviour shaped by personal and social interactions that are influenced by environmental, cultural technological and socio-economic contexts. Lifestyles that support future sustainable societies will need to accommodate human diversity and reflect different approaches to work-life balance and personal wellbeing. Future sustainable lifestyles support equity, efficiency and sufficiency in order to live within global resource limits. People are supported by systems and infrastructure that enable, maintain and sustain more sustainable ways of living.

The SPREAD Sustainable Lifestyles 2050, European Social Platform project fills a gap in current research by consolidating knowledge, identifying trends and promising practices, and envisioning possible sustainable lifestyle futures. A roadmap of action strategies for different societal actors will be developed, including 2012-2050 pathways to enabling sustainable living across Europe by 2050. This roadmap will support future research and policy agendas on the EU and national levels.

This document presents the project's preliminary findings. It provides policy considerations from our review of existing knowledge and examples of current promising practice. It presents four alternative and emerging visions of future sustainable lifestyles, and it explores the drivers, barriers and gatekeepers that may help or hinder the proliferation of more sustainable living options.

A final policy brief will be delivered at the conclusion of the project, in December 2012, and will include concrete policy recommendations.

SOCIO-ECONOMIC SCIENCES AND HUMANITIES RESEARCH



POLICYBRIEF



SPREAD Sustainable Lifestyles 2050

Roadmap: The Transition to Future Sustainable Lifestyles.

Polloy recommendations for the development of pathways to more sustainable living in Europe from today to 2060.

Final Policy Brief, November 2012

INTRODUCTION

The SPREAD Sustainable Lifestyles 2050 European social platform project has been a two-year inquity that has engaged state-indices from across Europe – from business, research, design, policy, clull society and offizers – who have perfulpated in the development of a vision and scenarios of future sustainable societies. The social platform has identified inspiring examples of more sustainable living practices around Europe and has developed a EU Action Roadinap of possible actions to enable the transition to more sustainable ways of fluting by 2050.

The EU Sustainable Lifestyles Roadmap & Action Plan 2060 is the find deliverable of the SPREAD project.

The Roadmap integrates the following SPREAD project research and deliverables:

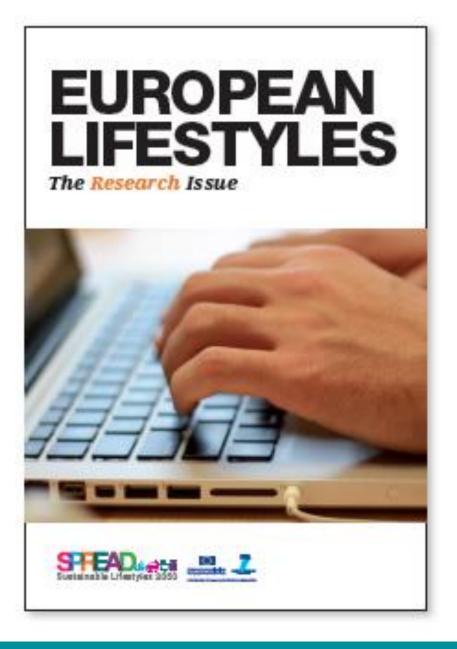
- > Qualitative and quantitative indicators and drivers of current unsustainable European litestyle impacts on the environment, society and individual wellbeing.
- Examples of current initiatives and ways of living that reveal promising solutions to current.
 Iffestyle impacts.
- > Four scenarios of future societies where current challenges to sustainable living have been overcome, sustainable lifestyles are the norm, and supported by society.

The SPREAD EU Action Roadmap towards sustainable lifestyles aims to complement the suite of roadmaps that have been presented by the European Commission as of 2011 in the fields of energy, transport, low carbon, and resources. The SPREAD roadmap focuses on individual citizens and how they live in their homes, use different means of transport, consume, or spend their lebure time.

Deliverable 6

Future Research Agenda to accelerate sustainable living





Enabling sustainable lifestyles:

Knowledge gaps & Research challenges

- ☐ The economic system
- Policy frameworks
- ☐ Infrastructure & spatial planning
- ICT & social media
- Social institutions
- Collective actions
- Individual behaviour
- ☐ Governance processes
- New research approaches

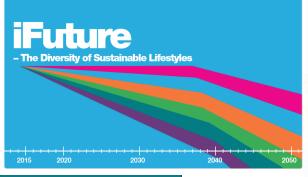


Findings of the project

SUSTAINABLE LIFESTYLES: **TODAY'S FACTS &** TOMORROW'S TRENDS











INTELLIGENT FASHION









EUROPEAN LIFESTYLES



EUROPEAN LIFESTYLES















Re-designing The Good Life – Sustainable Living

EUROPEAN LIFESTYLES

The Future Issue





Disrupt unsustainable patterns to have the future we want

Translating Sustainability Goals into Daily Lives



Citizens need to activate the change Connect social sciences to environmental sciences

Innovation Opportunity Spaces for Societal Actors

POLICY & GOVERNANCE PATHWAY 2012 – 2050

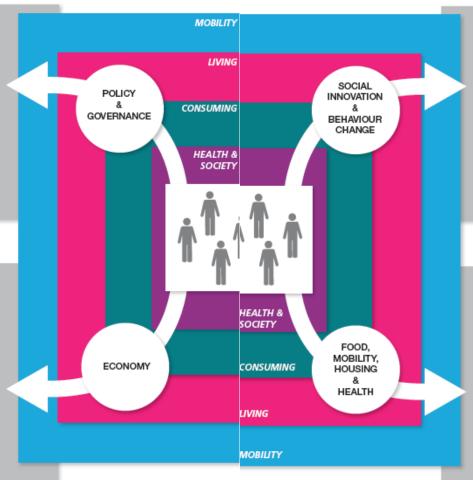
Systemic inclusive and participatory governance and policy decision-making

- Human centred, systemic and participatory approaches to policy making to promote sustainable living
- Individual resource consumption targets incentives and rewards (towards 8 000 kg lifestyle footprint)
- Improvements in policy assessment tools to identify milestones of achievements towards more sustainable living
- National omnibudspersons for future generations and parliamentary committee on "protecting the future"

ECONOMY PATHWAY 2012 – 2050

Economies and monetary systems support people and enable sustainable living

- Sustainable economy commission ensures systemic policies and beyond GDP indicators that promote economic development, competitiveness and socioecological benefits
- From a debt based economy to an economy that encourages savings to fund long-term investments in green economy sectors and innovation for sustainable living
- Testing new financial instruments and facilitating open dialogue between financiers and the public to restore trust
- Support for alternative economies, currencies, and new business models that support sustainable living



SOCIAL INNOVATION & BEHAVIOUR CHANGE PATHWAY

2012 - 2050

Opportunities in understanding sustainable lifestyle diversity & re-thinking the good life

- Community re-design for the people by the people through collaborative innovation
- Skills for sustainable living become intrinsic elements of formal & informal education
- Understanding individual lifestyle behaviour diversity and making sustainable living easy becomes the innovation opportunity of the century
- Smart ICT accelerates the transition to 8 000 kg sustainable lifestyle footprints

CONSUMING, MOBILITY, LIVING, HEALTH & SOCIETY PATHWAYS

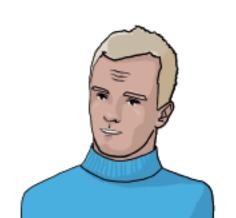
2012 - 2050

Sustainable diets, public mobility, smart housing and healthy living

- "Re-boot" of individual diets, household food waste and the food production system
- Human-centred lifestyle approach to urban planning and the transition to ubiquitous zero-net energy homes
- Right-sizing individual mobility needs by providing safe, equitable, accessible and sustainable choice
- Sustainable societies that support 8 000 kg lifestyles integrate environmental sustainability with health, wellbeing and social equity

Participatory approaches – Growth alternatives – Diversity

Competitiveness starts with People



CURRICULUM VITAE

NAME

Juha Mirvonen

PAY

A solid salary and all veggles and fruits that I need.

HOURS

Depending on the time of the year, it can be up to 60 hours a week.

WORK-LIFE BALANCE

When the harvesting needs to be done, work can sometimes be overwhelming. However, I enjoy It a lot to be in the nature, so I don't mind.

BEST THING

The taste of the first ripe tomatoes.

WORST THING



CURRICULUM VITAE

NAME Elain Ho

PAY

Enough to cover my costs!

HOURS

Per week 24 hours for BoE and 20 hours as a voluntary community advisor

WORK-LIFE BALANCE

As I support my local community I can be part of the changes that are taking place. Being part of this change makes me feel like I am not really working!

BEST THING

Being able to help people make difficult but important decisions. This can be very rewarding.



CURRICULUM VITAE

NAME

Ilian Yale

PAY

From the supermarket, 'Fundme' and donations for my music

HOURS

I work 20 hours in the shop and the rest of the time I concentrate on my music

WORK-LIFE BALANCE

It's a very good balance because I am always active and with other people which gives me plenty of energy and Ideas.

BEST THING

The freedom to be able to develop my own work, pay my bills with something



CURRICULUM VITAE

NAME

Kelly Newsome

PAY

A lot of the work isn't paid as it involves research and work in communities. In return I get free working spaces and volunteer support

HOURS Flexible

WORK-LIFE BALANCE

In a job like this your life becomes your work and vice-versa

BEST THING

The very broad and diverse network of colleagues and partners ranging from retailers, designers, researchers, engineers and local community members

Skills for sustainable societies that support sustainable living



Sustainable Living Globally





Financed by the German Ministry for Economic Cooperation and Development (BMZ), the projects aim to identify and contribute to global efforts towards living sustainably by :



Collecting **100 Big Ideas** for living sustainably, Discussing them with stakeholders in **5 Cities**, Bringing them to the **Global Network towards Sustainable Lifestyles**



Creating a Framework for Scaling-up Innovations,
Highlighting the 5 success factors common to 100
enterprises with sustainable practices
Bringing the outcomes into the Global Network
for Sustainable Innovation and Entrepreneurship









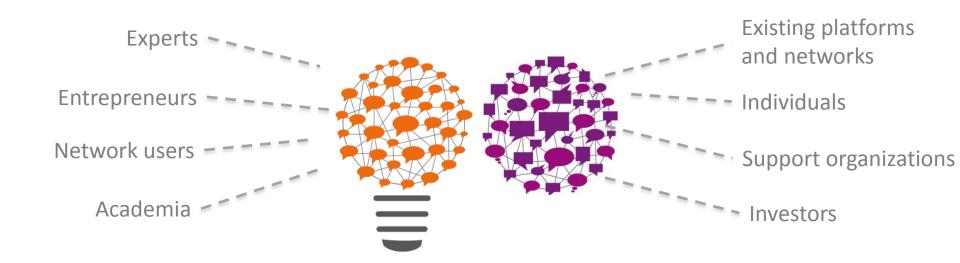


Host discussions and share learning

Strengthen and linking existing networks



OBJECTIVES AND PARTICIPANTS





Promote success



Link knowledge





WORKSTUDIOS AND WEBINARS 2012 - 2013

1 or 2 day interactive, multi-stakeholder meetings comprising key note speeches, visioning sessions, discussion panels and match-making activities.

Location

China

BIG2050



Omina .	3010201 2012	
Colombia	November 2012	Full back to back
Ghana	June 2013	Event component
Philippines	March 2013	Full back to back
Germany	September 2013	Event component

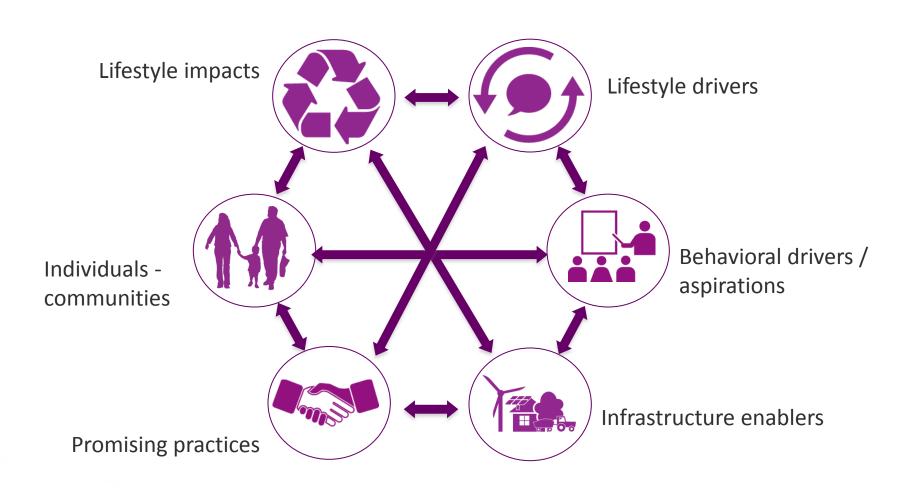
October 2012





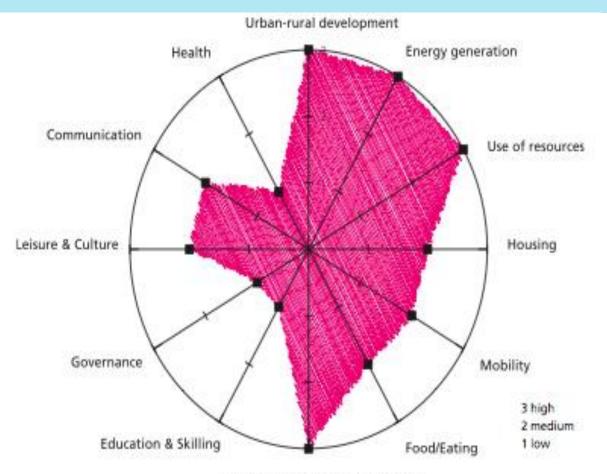


Global Network on Sustainable Lifestyles – Rationale





Findings China - Impacts



Areas with most relevant impact on/of Chinese lifestyles

Employment & Work Conditions



Findings China - Drivers

