

# Islands as sustainable playgrounds



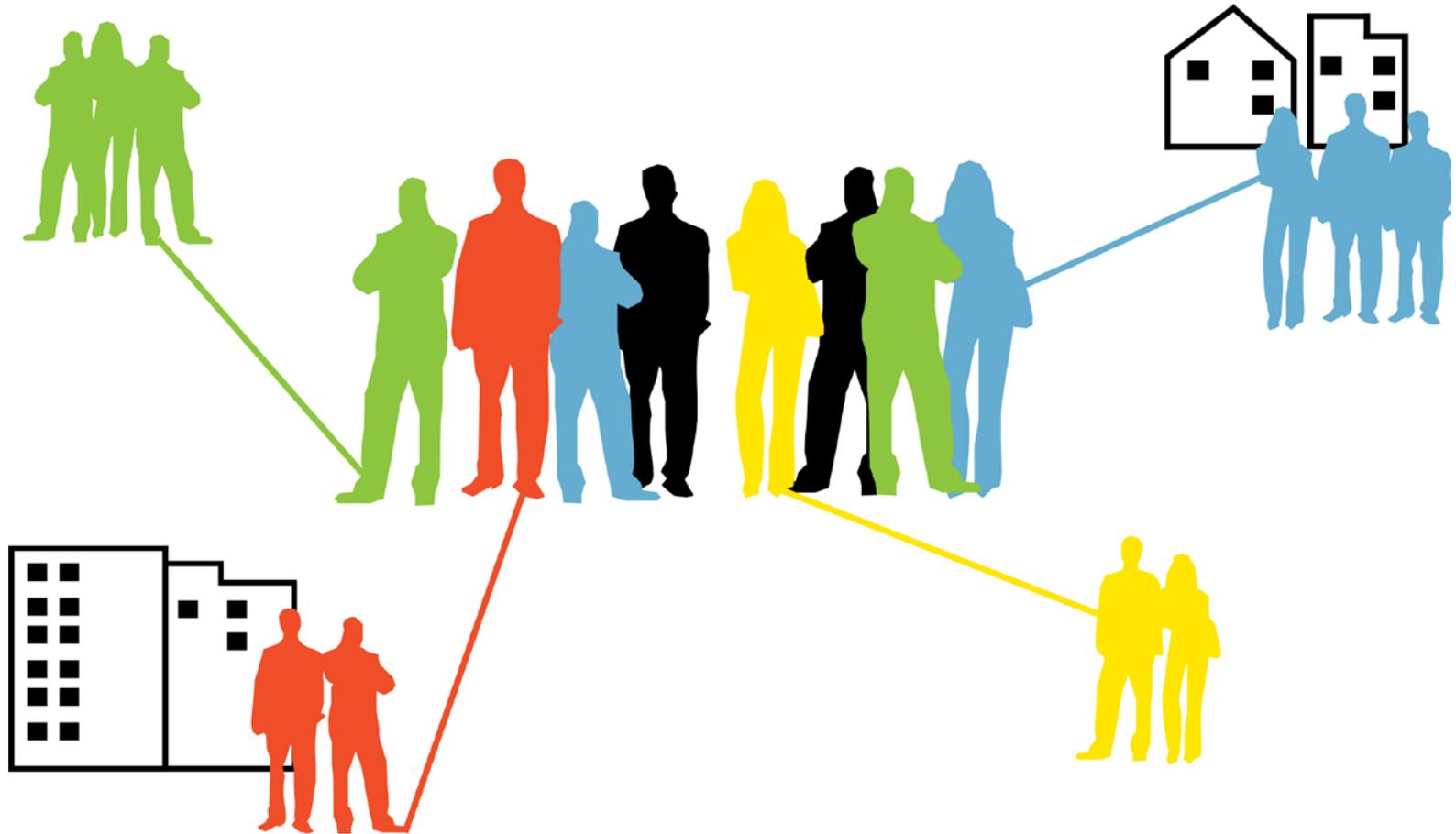
Søren Femmer Jensen  
Director & Founder  
[Cocreative.com](http://Cocreative.com)

CO·CREATIVE

# ISLANDS AS SUSTAINABLE PLAYGROUNDS

**Who?**

# CO-CREATIVE



*“Sustainable innovation is very much about people.”*

# ISLANDS AS SUSTAINABLE PLAYGROUNDS

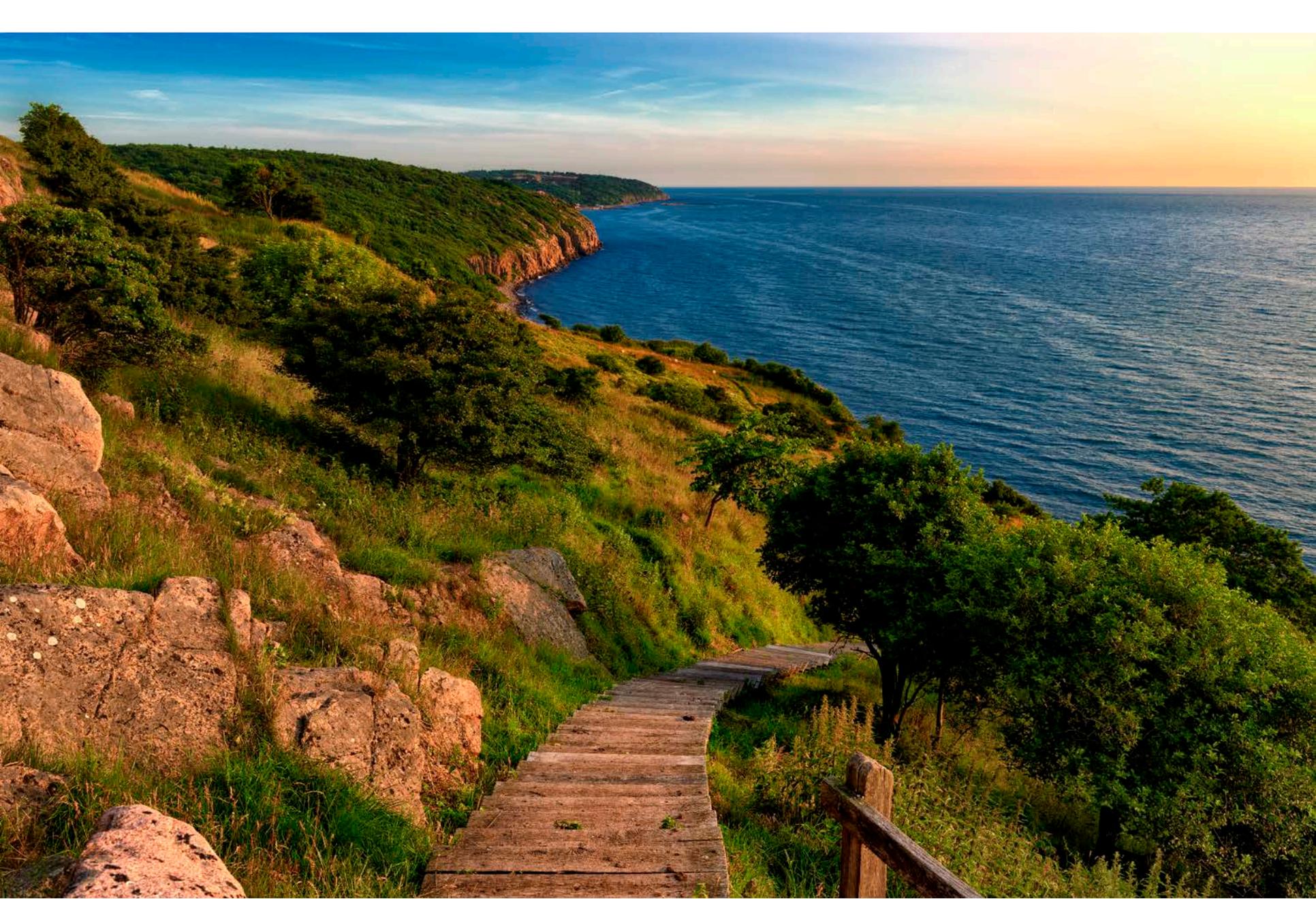
**Where?**

# BRIGHT GREEN ISLAND OF BORNHOLM







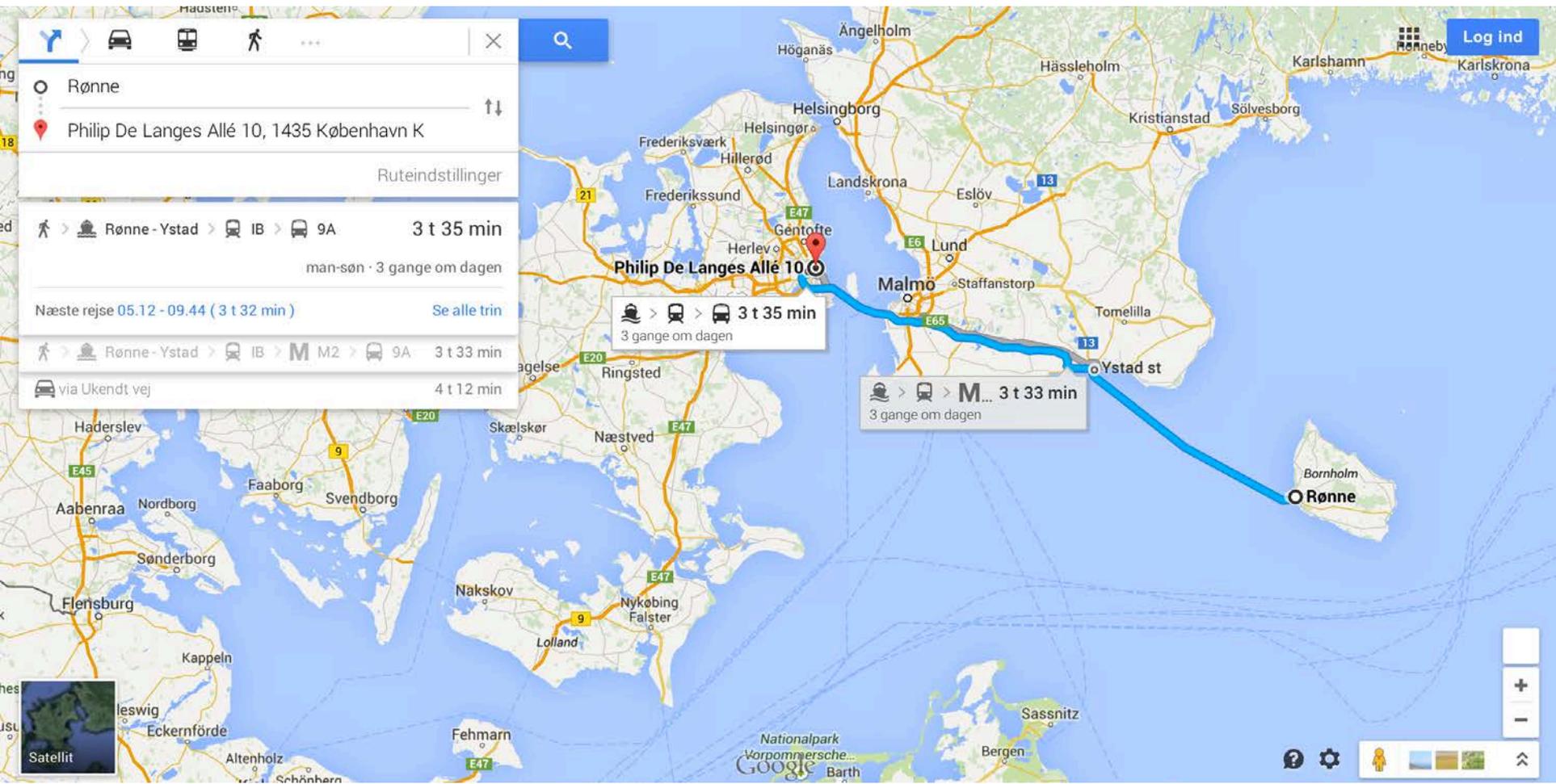








# Bornholm is 3 hours by train and ferry from Copenhagen



...or 25 minutes by plane

Bornholm's vision is to become a  
100 % green and sustainable island  
by 2025

This is how we make it happen



**B O R N H O L M**



# ISLANDS AS SUSTAINABLE PLAYGROUNDS

**Why?**



**BECAUSE  
ISLAND  
LIVING IS  
GREAT!**



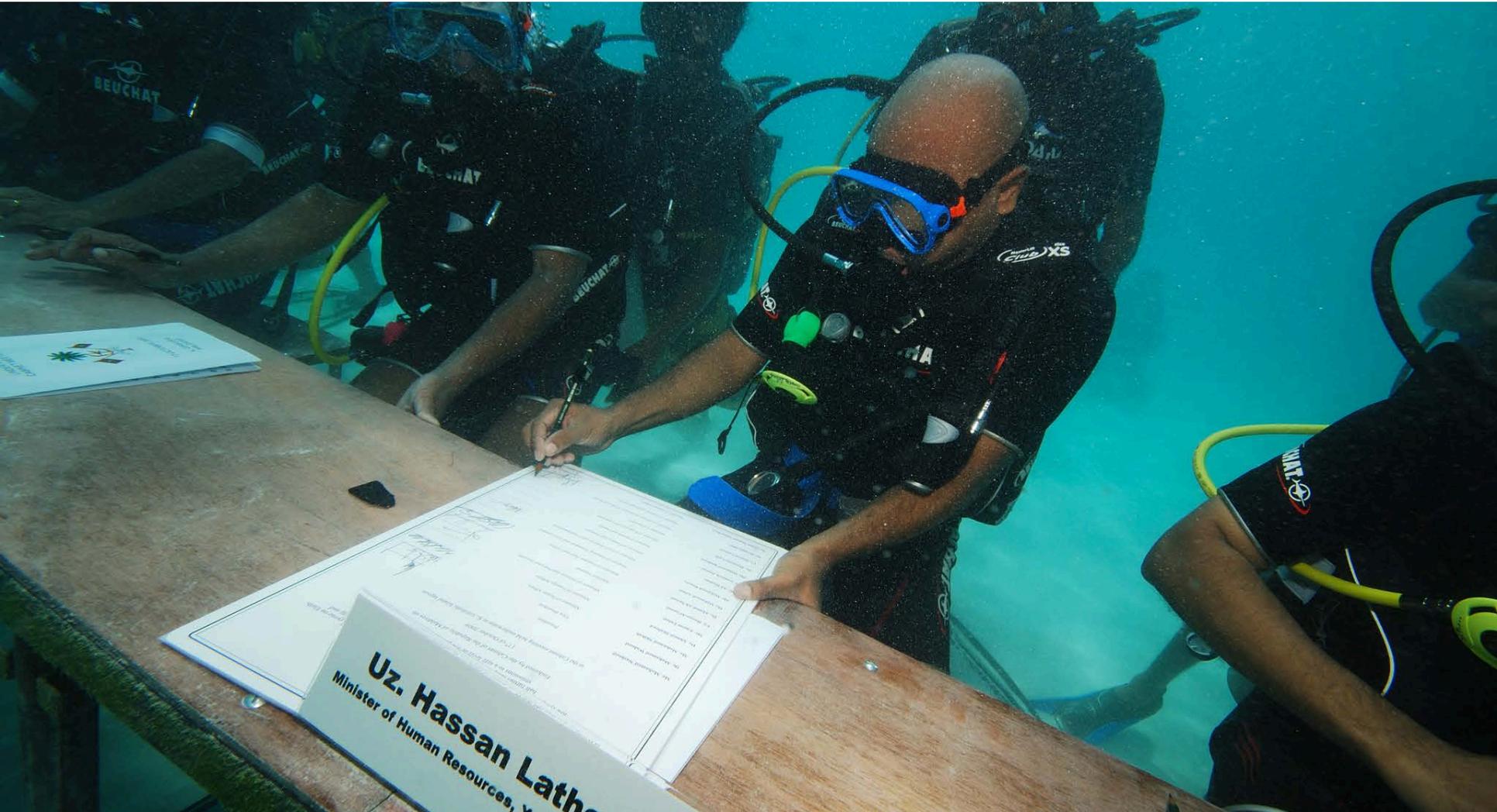
**BECAUSE ISLAND  
LIVING IS GREAT!**

# Islands also face sustainable challenges...

TO SAVE HIS COUNTRY  
HE HAS TO SAVE  
OUR PLANET.



# Islands also face sustainable challenges...



**...giving room for  
innovation.**



Islands can be creative, valuable,  
fun sustainable  
playgrounds



# ISLANDS AS SUSTAINABLE PLAYGROUNDS

**What does a  
sustainable  
society look like?**

# Masdar City



# Masdar City



<http://www.masdar.ae>

# Singapore's First Eco-Town



*"Punggol will serve as a 'living laboratory' to test new ideas and technologies in sustainable development, integrating urban solutions to create a green living environment."*

# Karamay China – “Energy city of the future”



# OUR DREAM

## A CITY FREE FROM FOSSIL FUELS







# Copenhagen Nordhavn Harbour Sustainable city development



Copenhagen  
Carbon Neutral  
by 2025

# CPH 2025 CLIMATE PLAN

A GREEN, SMART AND  
CARBON NEUTRAL CITY

SHORT  
VERSION  
DRAFT  
04.06.12

# ”Sustainable communities”



<http://www.doorsofperception.com/food-systems-design/the-high-tech-permaculture-metabolic-engine-greenhouse/>



KLIMA-, ENERGI- OG  
BYGNINGSMINISTERIET

ENERGY  
ACADEMY



SAMSØ  
FOSSILFRI Ø

SAMSOE - FOSSIL FREE ISLAND

# Islands taking up the challenges

HOME | [What We Do](#) > [Operations](#) > [Smart Island Ec...](#)

[Sign-in](#)

WHAT WE DO

GET INVOLVED

NEWS

EVENTS

WHO WE ARE



## Operation: Smart Island Economies

Operation Smart Island Economies aims to transition islands to 100% renewable energy by accelerating commercial investment.

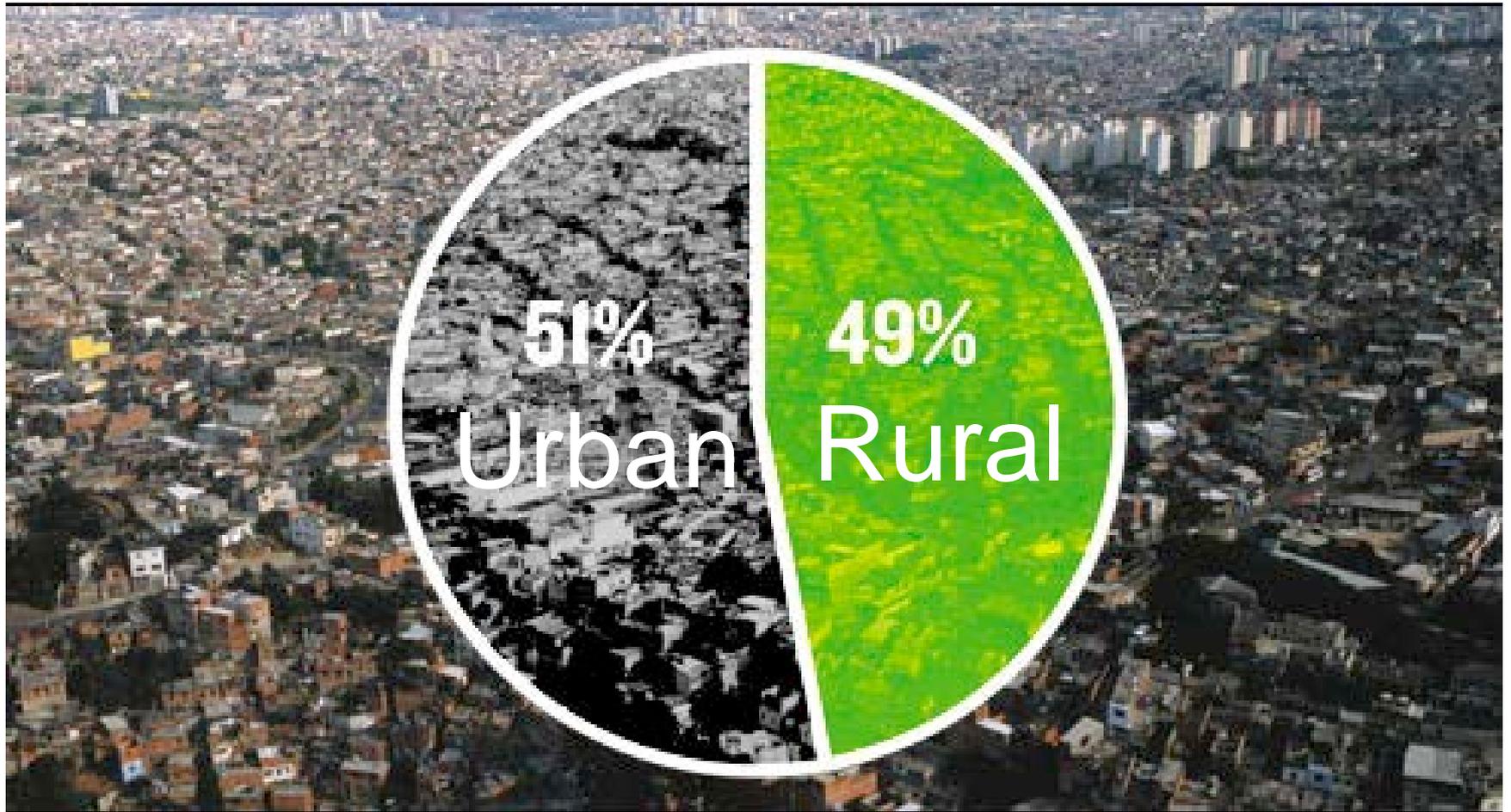
<http://www.carbonwarroom.com/content/smart-island-economies>

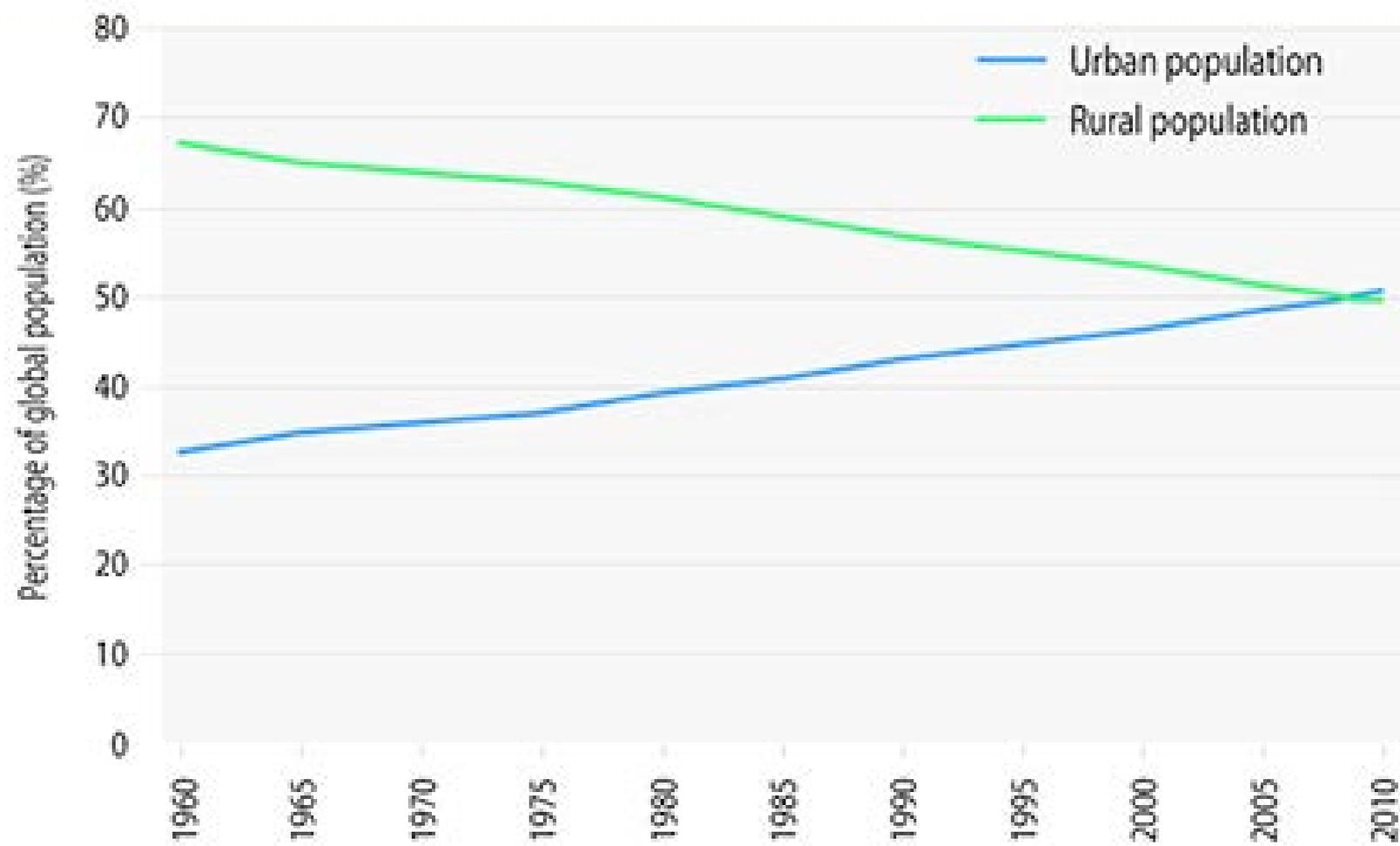
# ISLANDS AS SUSTAINABLE PLAYGROUNDS

**What are the  
numbers  
saying?**



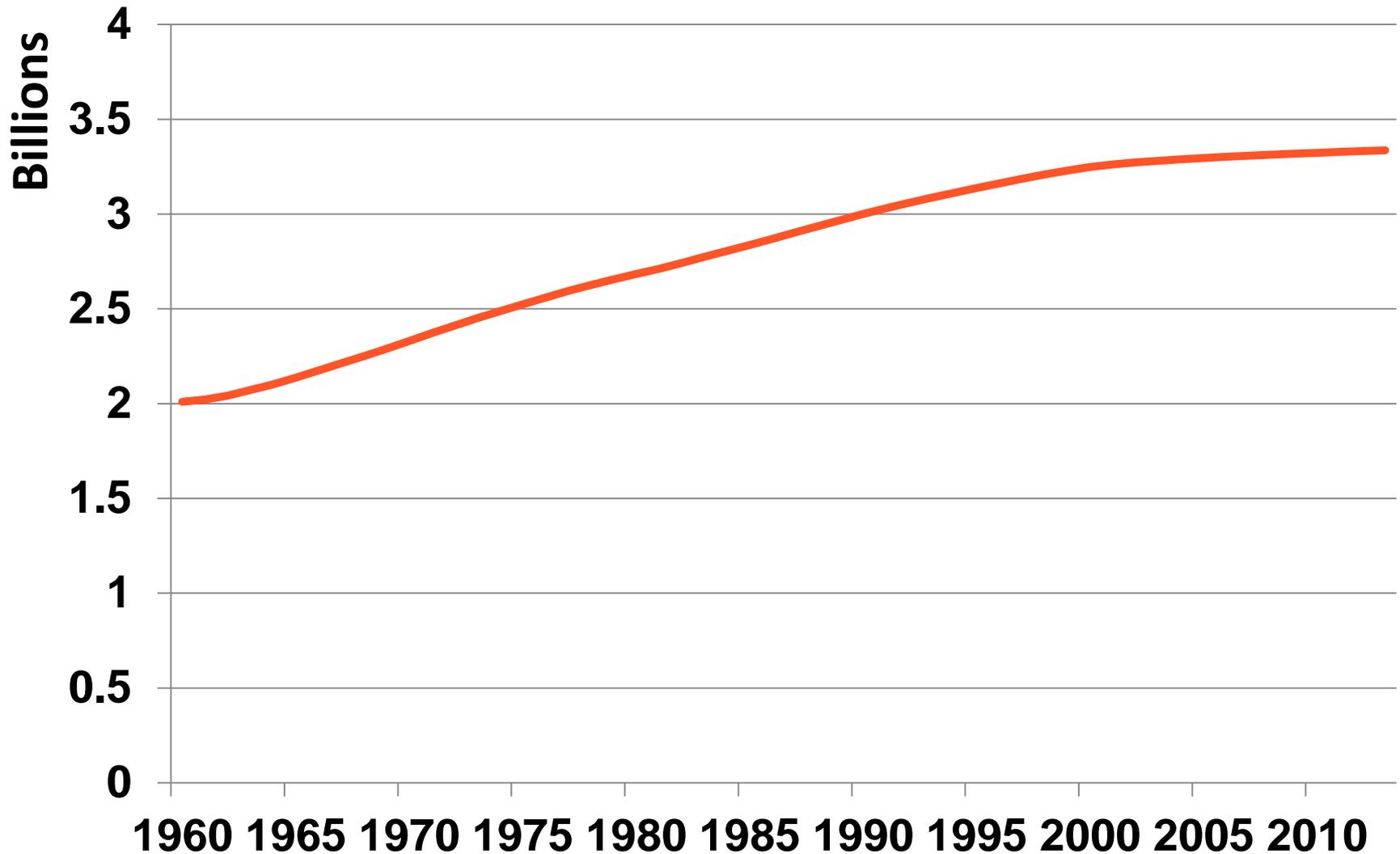
# World population





Rural population in absolute numbers..

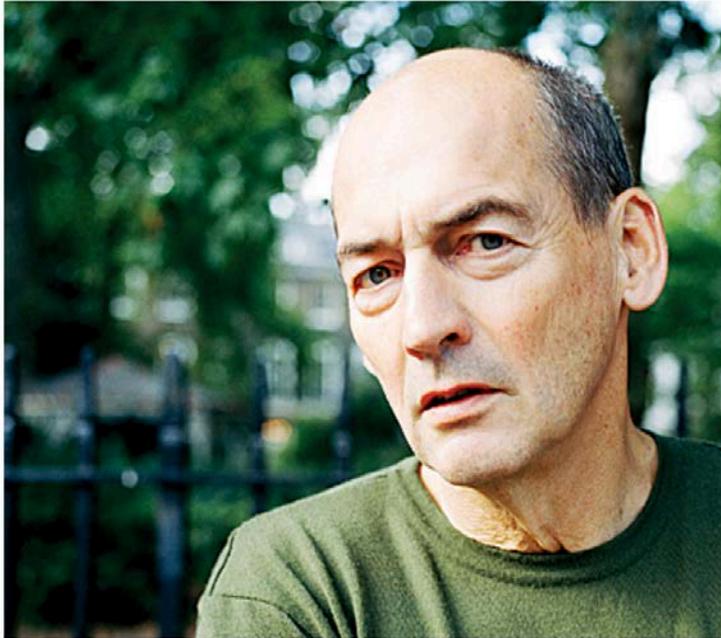
# Rural population in absolute numbers!



# Renewed focus on the country-side

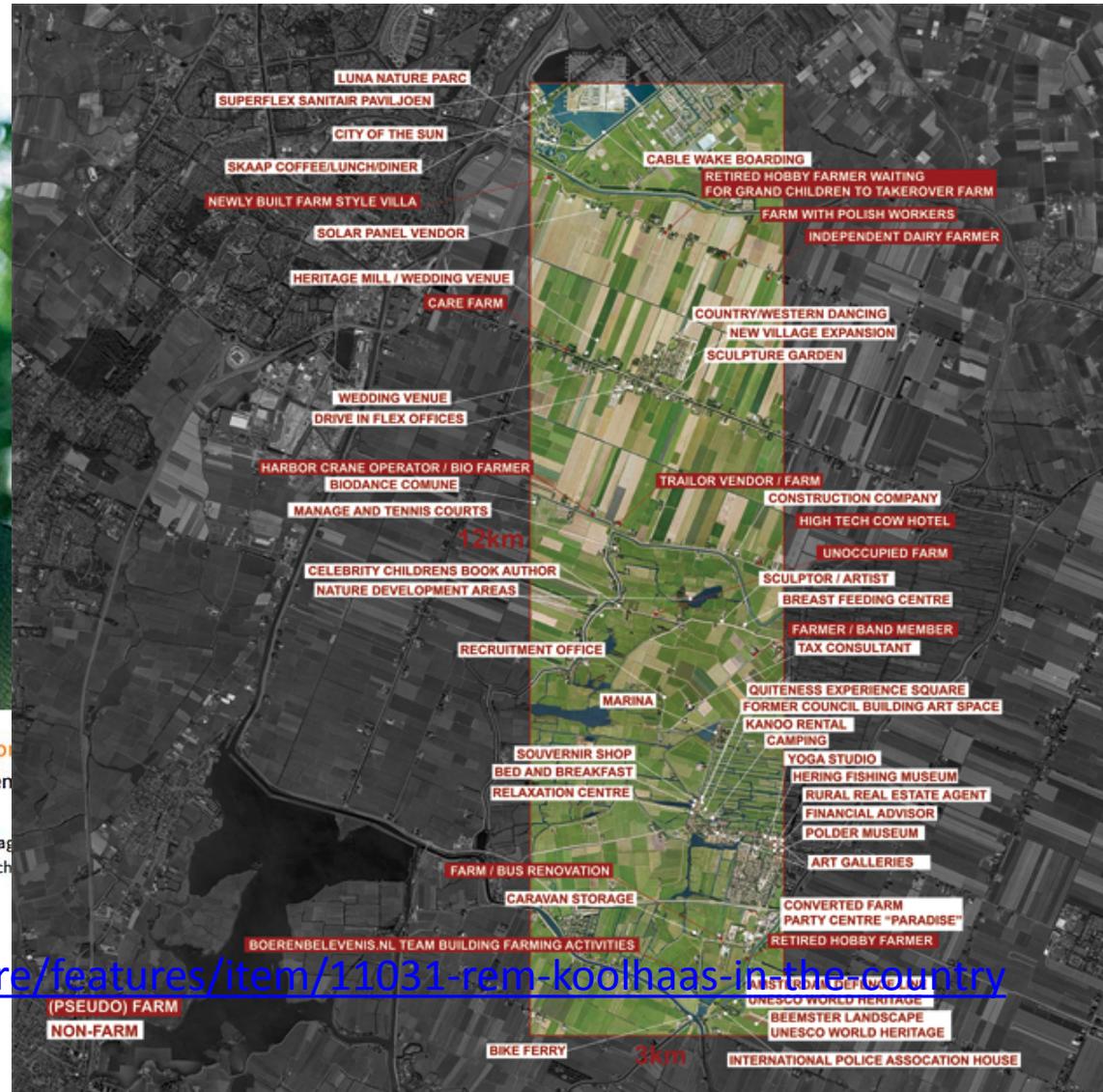
## Rem Koolhaas in the country

FEATURES 23.09.14



Rem Koolhaas thinks that too little attention is paid to the countryside, where change is happening at a faster rate than in most cities. In this illustrated essay, the OMA founder argues that architects need to take stock of a new agricultural revolution

Work  
Ren  
Imag  
Tech



<http://www.iconeye.com/architecture/features/item/11031-rem-koolhaas-in-the-country>

# ISLANDS AS SUSTAINABLE PLAYGROUNDS

**Are big  
cities more  
sustainable?**

# THE SUPER- ORGANISM

The Beauty, Elegance, and Strangeness of Insect Societies



Bert Hölldobler AND E. O. Wilson

WINNERS OF THE PULITZER PRIZE FOR *THE ANTS*

# CITY POPULATIONS ARE SET TO EXPLODE

According to the United Nations (2013), the global urban population will climb drastically over the next decades

People living in cities (in billions)



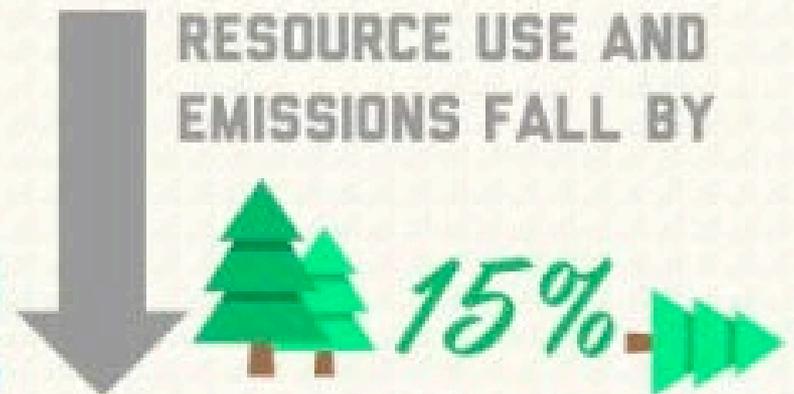
*How can urban sustainability save the day?*

As cities become denser, they could become more efficient

FOR EVERY DOUBLING OF  
POPULATION DENSITY,



RESOURCE USE AND  
EMISSIONS FALL BY



**“TO BE CIVILIZED IS TO BE URBAN”**  
civilization, in this strict sense, is ‘the art of living in towns...’ - Sp

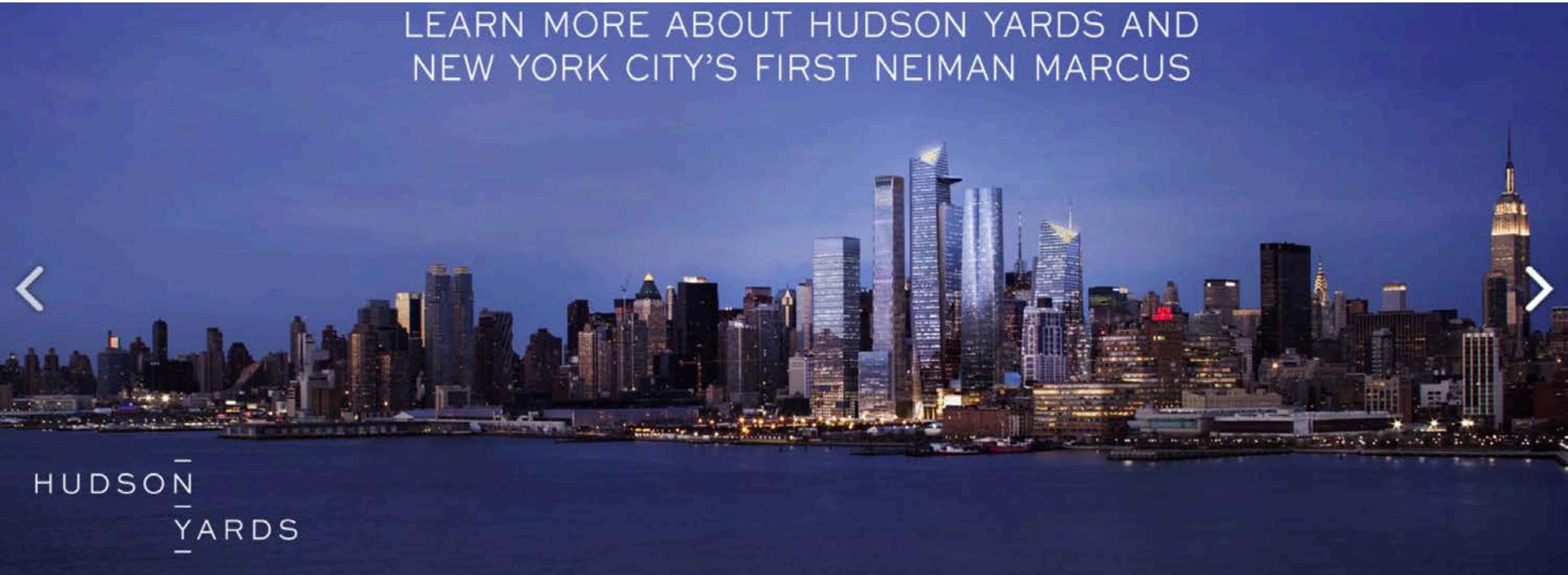


# Human superorganism?



# Will the resource efficient city make it's people more sustainable?

LEARN MORE ABOUT HUDSON YARDS AND  
NEW YORK CITY'S FIRST NEIMAN MARCUS

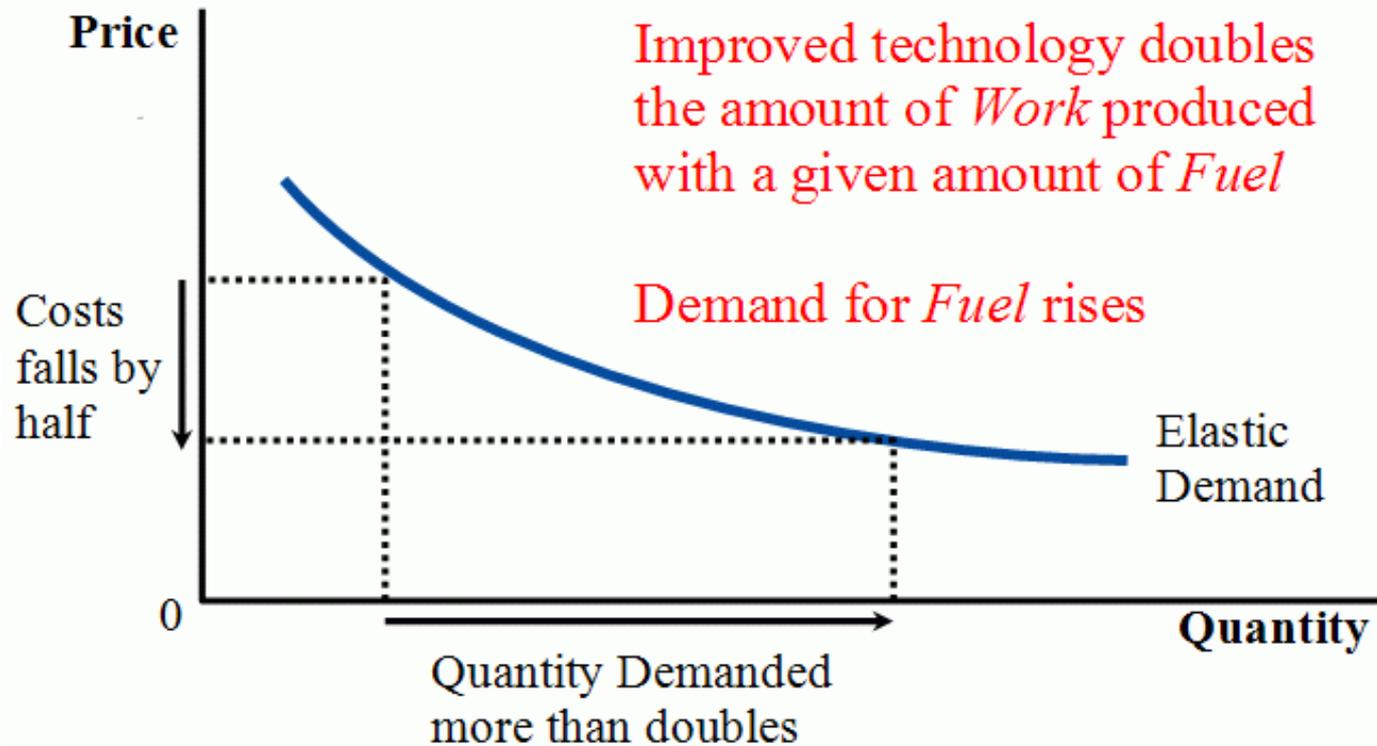


HUDSON  
—  
YARDS  
—

# Will the resource efficient city make it's people more sustainable?

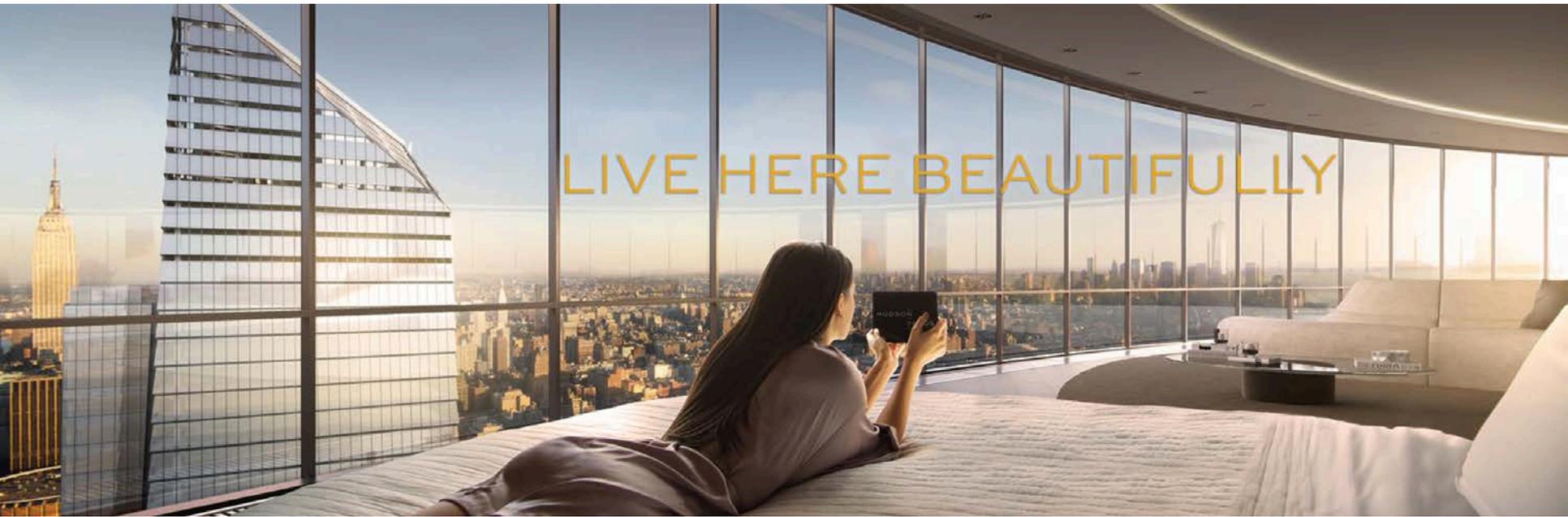


# Look out for the rebound effect..



**Jevon's paradox**

Will the resource efficient city  
make it's people more happy?

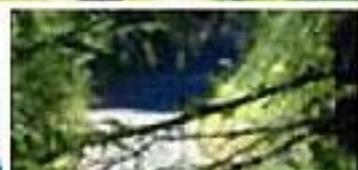


# ISLANDS AS SUSTAINABLE PLAYGROUNDS

**How can islands  
offer sustainable  
playgrounds?**

# BRIGHT GREEN ISLAND

...a sustainable society





# REAL WORLD EXPERIMENTS



1:26 / 2:01

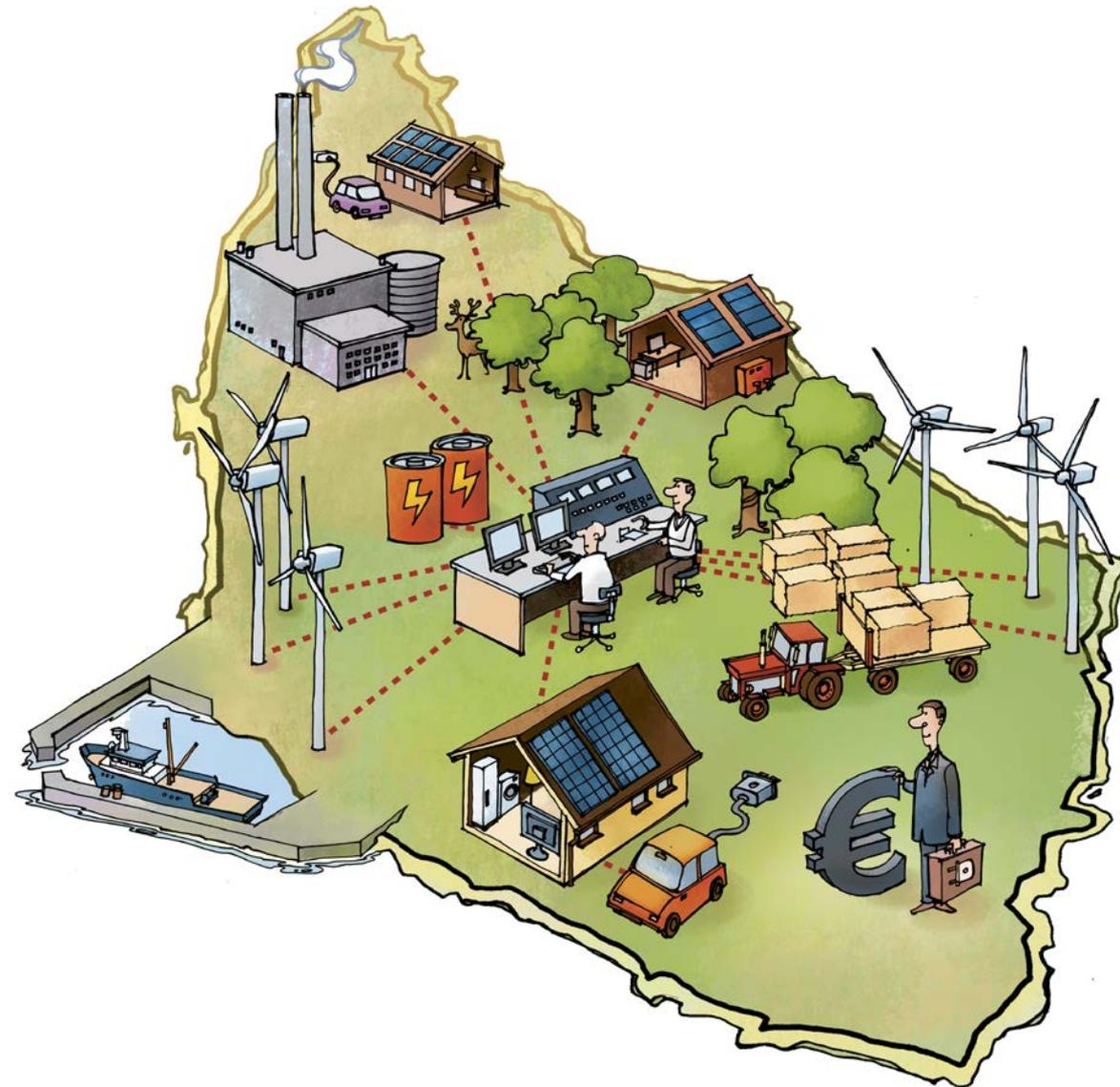


BRIGHT GREEN ISLAND - COME JOIN US

# Islands as living laboratories

**EcoGrid EU**  
A Prototype for European  
Smart Grids

**EcoGrid<sup>eu</sup>**  
[www.eu-ecogrid.net](http://www.eu-ecogrid.net)



the whole world can do  
it.



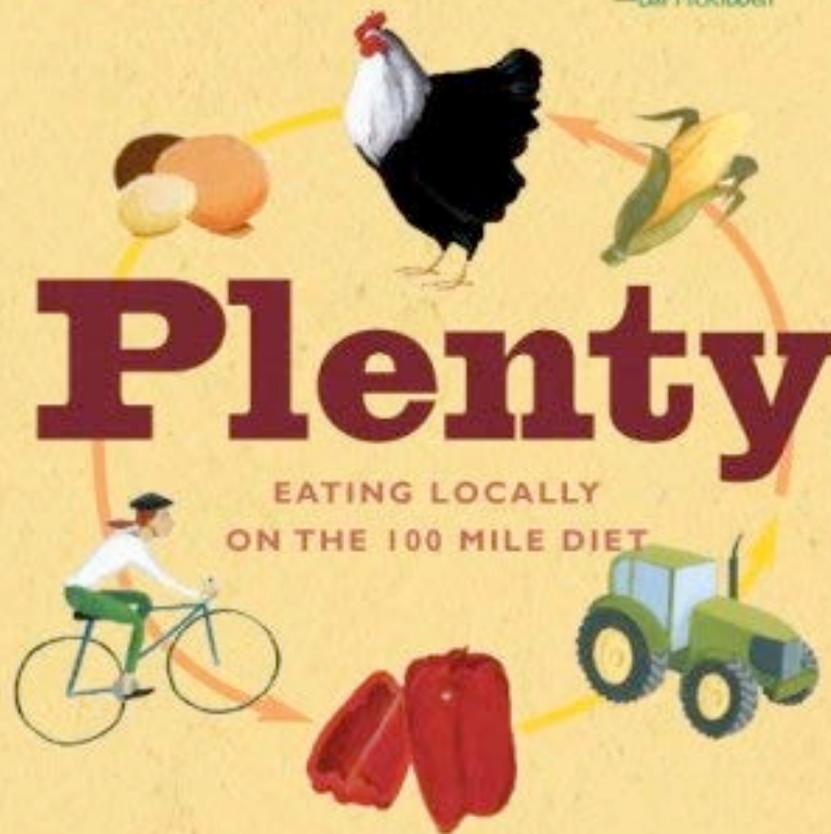
Bornholm EV Rally 2013

# Testing the potentials of local food systems



"A funny, warm, and seductive account of how we might live better—better for this earth, better for the community, better for our bellies!"

—Bill McKibben



# Plenty

EATING LOCALLY  
ON THE 100 MILE DIET

ALISA SMITH & J.B. MACKINNON



# Vinschgau Valley – referendum banning pesticides september 2014



# Vinschgau Valley – referendum banning pesticides september 2014



# National record in # of “green constructors”

GROENTBYGGERI.DK



Send som mail

Print

Del



**GRATIS ENERGIVEJLEDNING | ENERGIRIGTIG RENOVERING – SÅDAN GØR DU | SÅDAN GJORDE ANDRE | PRESSE |**

**BLIV GRØN HÅNDVÆRKER**

BLIV ENERGIVEJLEDER | KLYNGEN | INSPIRATION | GREEN SOLUTION HOUSE |

- ▶ Grøn håndværker – 4 uger
- ▶ Bliv energivejleder
- ▶ Den grønne liste
- ▶ Danmarksrekorden

## FÅ DEL I DEN **GRØNNE VÆKST** – BLIV GRØN HÅNDVÆRKER



Grøn Håndværker-uddannelsen er en god forretning. For fremtiden inden for bygge- og anlægsbranchen er grøn. Vi skal spare på energien i vores huse. Det er kravet til fremtiden. Det betyder energirenovering af bestående

### Ring mig op

Jeg vil gerne ringes op vedrørende Grøn Håndværker-uddannelsen.

Skriv nummer

**RING MIG OP**

<http://groentbyggeri.dk>



# Green Solution House



<http://www.greensolutionhouse.dk>

# Green showroom

Det  
Grønne  
Pakhus

At bygge bæredygtigt er der fremtid i.  
For dig og din familie. For din økonomi  
og din sundhed. For klimaet og for naturen.

Ligesom gourmet-kokken vælger råvarer  
med omhu, inviterer vi dig til at gå på  
opdagelse og finde de perfekte byggeklodser  
til dit hus. Velkommen til en verden af  
bæredygtige materialer.

V  
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Place and space matters.

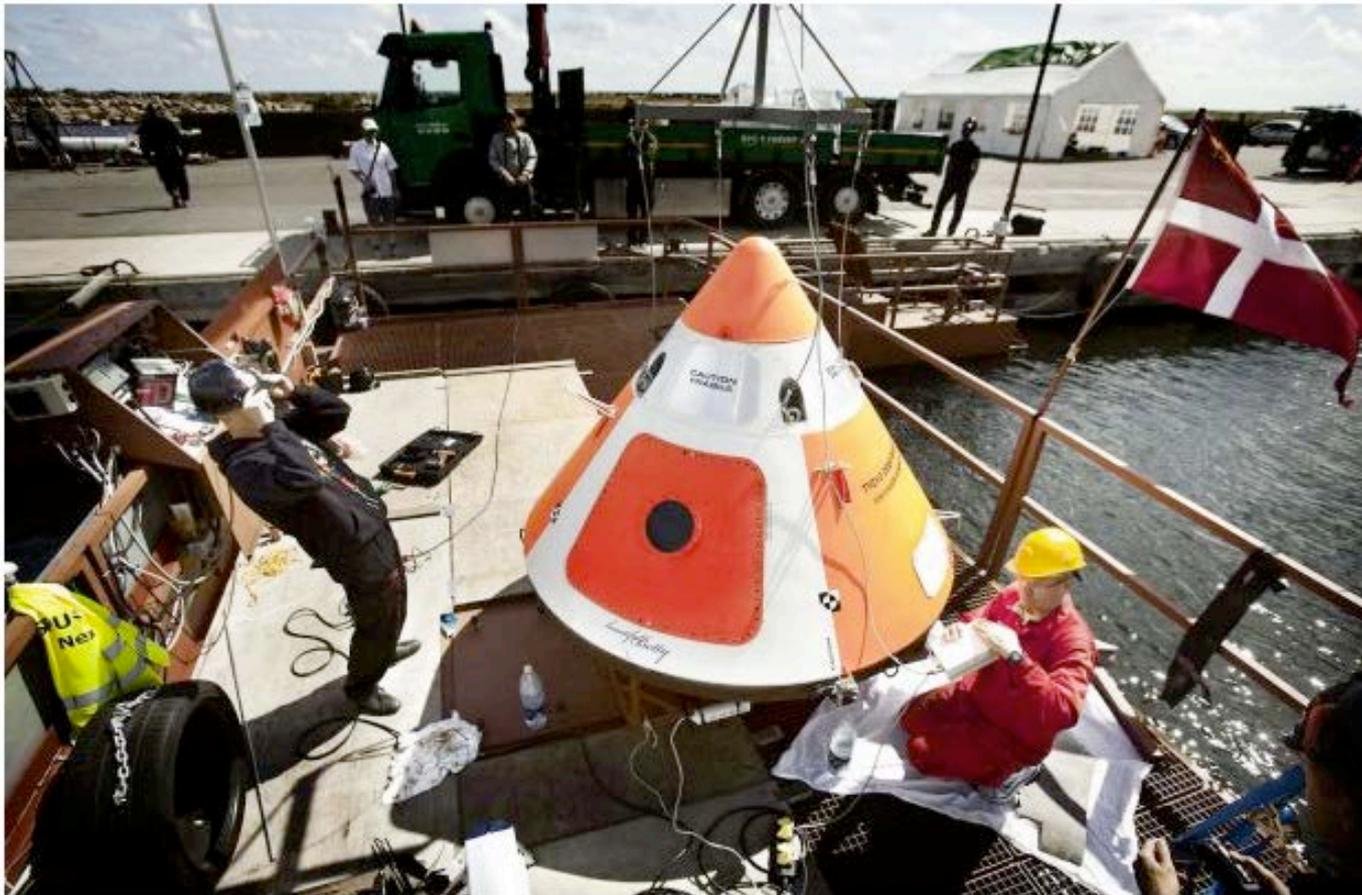


# Copenhagen Suborbitals

## Dansk raketforsøg endte i snu

Af Nynne Hein Møller

Søndag den 12. august 2012, 10:46

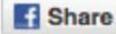
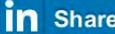


<http://copsub.com>

Søndag den 12. august sendte raketentusiastene Copenhagen Suborbitals rumkapslen LES til vejs ved Nexø på Bornholm.

# The Crazy DIY Spaceflight Project That Just Might Work

BY DAVEMOSHER 06.14.12 | 6:30 AM | PERMALINK

 Share 0  Tweet 0  +1 95  Share  Pin it



HEAT 1X Tycho Brahe lifts off on June 3, 2011. Photo: Thomas Pedersen

<http://www.wired.com/2012/06/copenhagen-suborbitals-profile/all/>



# Little Smart Things

Drones That Make Sense



# ALMOST READY FOR TAKE OFF

Want to know more?

New website will launch soon. Meanwhile contact us at [sales@littlesmarthings.com](mailto:sales@littlesmarthings.com) or for further information visit our old site.

<http://www.littlesmarthings.com>



# Little Smart Things

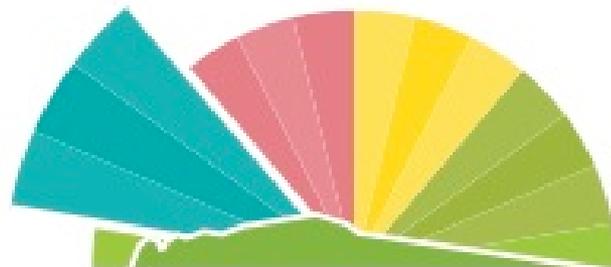


<http://www.littlesmartthings.com>

# Little Smart Things



<http://www.littlesmartthings.com>



# **BRIGHT GREEN ISLAND INNOVATION**

BÆREDYGTIG FORRETNINGSUDVIKLING

## Innovationsprogram for bornholmske virksomheder 2013-2014

**FORNYELSESFOVDEN**  
GRØN OMSTILLING OG ERHVERVSMÆSSIG FORNYELSE

co·creative

**VIA**   
UNIVERSITY COLLEGE

DEN EUROPÆISKE UNION

Den Europæiske Fond  
for Regionaludvikling



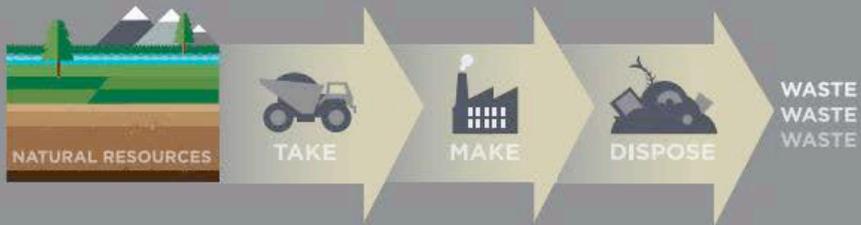
GROENTBYGGERI.DK



 **Campus  
Bornholm**

Vi investerer i din fremtid

# LINEAR ECONOMY



TECHNICAL & BIOLOGICAL MATERIALS MIXED UP

ENERGY FROM FINITE SOURCES

BY THE WFP/DOCKLAK WITH MINDGARD

# CIRCULAR ECONOMY



ENERGY FROM RENEWABLE SOURCES

PRINCIPLES OF A CIRCULAR ECONOMY

WASTE = FOOD  
DIVERSITY = STRENGTH  
ENERGY → RENEWABLES  
PRICE = REAL COST

BIOLOGICAL MATERIAL  
SAFELY ENRICHES  
NATURAL SYSTEMS...



TECHNICAL MATERIALS DO NOT  
COMPOST, THE PRODUCTS ARE  
MADE TO BE MADE AGAIN...





# RE|DESIGN CAMP2014





**RE|DESIGN  
CAMP 2014**





# RE|DESIGN CAMP 2014



# RE|DESIGN CAMP 2014



# Discarded fishing nets – how to reuse or upcycle?



# Backpack with reused nylon from fishing nets

PRODUCTS

WOMEN

MEN

└ JACKETS

└ TROUSERS

└ ECO MOTION

ACCESSORIES

BACKPACKS

SIZE CHART

ENVIRONMENTAL  
WORK

FUNCTION & MATERIAL

ABOUT US

PRESS

CONTACT

RETAILERS



**The 35-litre Gnå backpack** combines Klättermusen's love of technical detailing with convincing durability and sustainability. Gnå is made from 100% recycled nylon weave with a TPU coating and Kevlar reinforcement. Thanks to the shoulder straps and their Butterfly Bridge™ construction, as well as the ergonomic hip belt, you carry the weight on your bones and



**i** **FEATURES & FACTS**

- Light, torsion-rigid back.
- Large opening with two-way zip and double storm flap.
- Shoulder straps with Butterfly Bridge™.
- Back length easily adjusted by moving shoulder straps and/or hip belt.
- Automatic height

<b>Material</b>	Mipan Regen®, 100% Recycled Polyamide 420 Denier Nailhead with TPU-coating and PFOA-free impregnation.
<b>Material-reinforcement</b>	Kevlar®
<b>Colours</b>	Citronelle, Dark green, Ebony
<b>Weight medium</b>	1,60 kg
<b>Water column after 10 washes</b>	23m+
<b>Sizes</b>	35 litre

**eco INDEX** POINTS - 5/6 (83%)

- PFOA-free DWR.
- More than 70% recycled material.
- Recyclable in standard recycling systems.
- Long life

 **REFUND VALUE - € 10**



Mjölner



Arvaker



Röskva



Gnå



Allsvinn



Baggi



If you would like to buy this product, please contact one of our retailers or send us an e-mail (shipping within EU only). Price: 291 € (incl. 25% VAT.)

## Business Area

[Power & Industrial Systems](#)[Industrial Materials](#)

### Textile

- Spandex PU
- [Nylon·Polyester Fiber PU](#)
- Fabric-Dyeing PU

[Chemicals](#)[Construction](#)[Trading](#)[Information & Communication](#)[Other Affiliated Companies](#)

# Nylon·Polyester Fiber PU

Hyosung will take you on the road to success with our extensive experience and unparalleled technology.



## Polyester Fiber Business Division

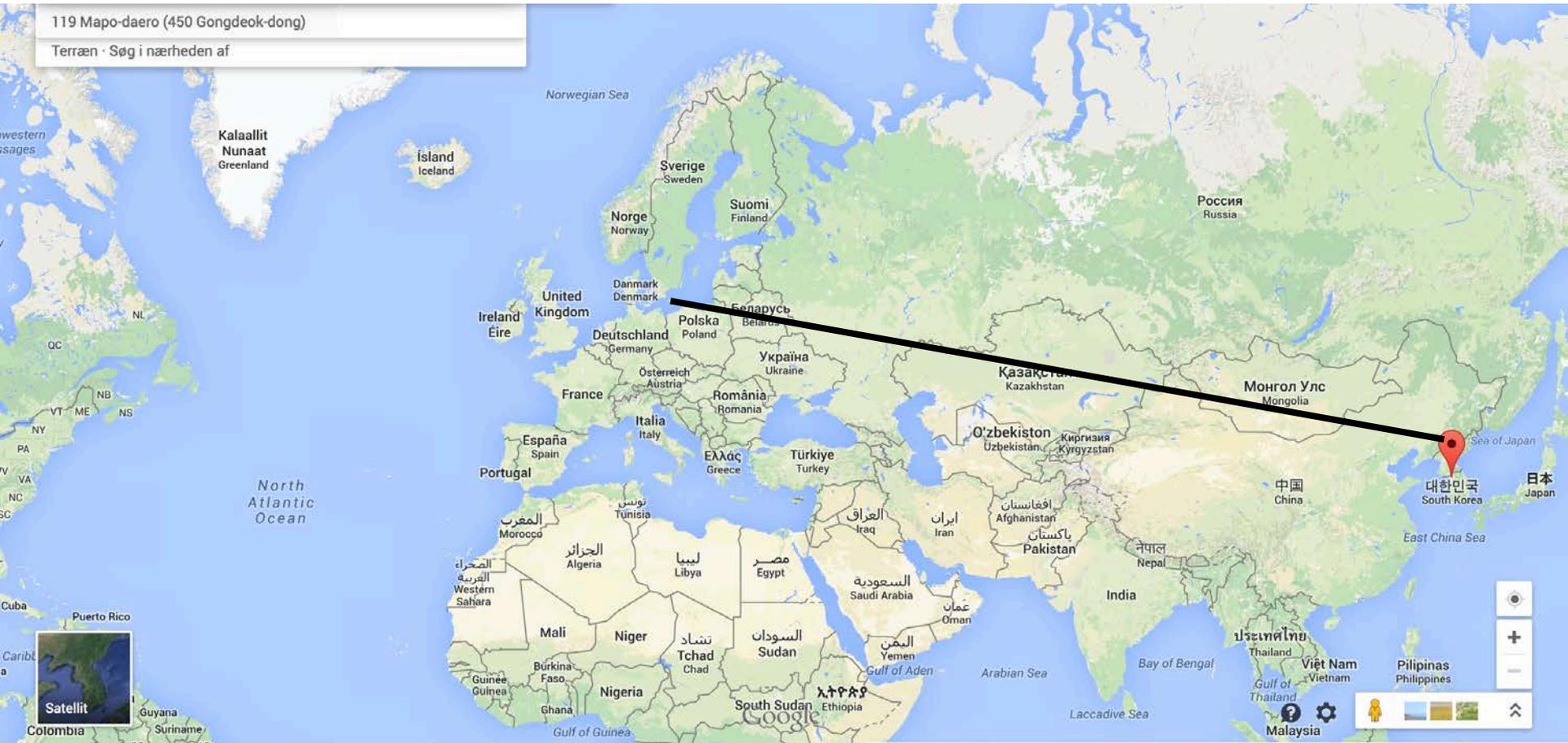
As the leader in the domestic polyester fiber manufacturer, Hyosung produces various and differentiated polyester yarns from regular yarns to high functional specialty yarns in order to create high values for customers.

In particular, Hyosung has successfully developed high technology intensive synthetic yarns including a quick-drying yarn(aerocool), antimicrobial yarn(aerosilver), hollow-core yarn(aerowarm), good color fastness yarn(prizma), flameretardant yarn(firex), elastic polyester yarn(xanadu), micro fiber(m2), and askin, in order to meet customers' needs and create a differentiated product market based on endless research. Hyosung has recently enhanced the development of eco-friendly fibers by launching the first recycled polyester fiber in Korea, regen<sup>TM</sup>, strengthen its position as an eco-conscious company by obtaining Eco-Mark from the Japan Environment

## Nylon Fiber Business Division

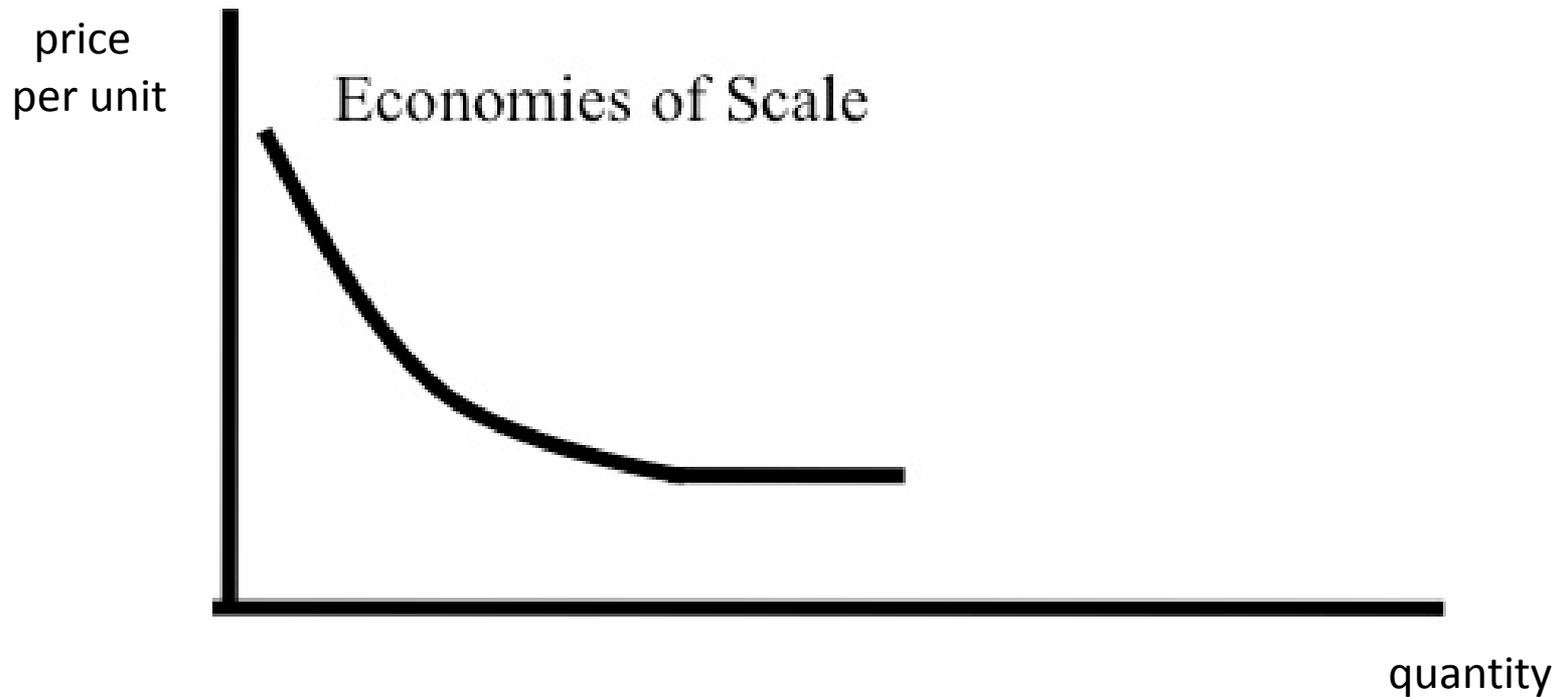
Hyosung is one of the world's best manufacturers of nylon textile filament, is loved by customers around the world for its nylon fibers of outstanding quality and a variety of functions, all based on production know-how accumulated over 40 years. Based on TOPLON(a yarn used for luxury lingerie, sportswear, and industrial materials), Hyosung sells high-functional yarns, including micro fine denier fibers(MIPAN fine & soft), N/P conjugated yarns(MIPAN XF), anti-microbial yarns(MIPAN magicsilver nano), conductive yarns(MIPAN corona), bonding yarns(MIPAN glurex), CD yarns(MIPAN colorist), high tenacity yarns(MIPAN robic), hollow fibers(MIPAN air), aqua-X, and rexy.

# Factory in South Korea



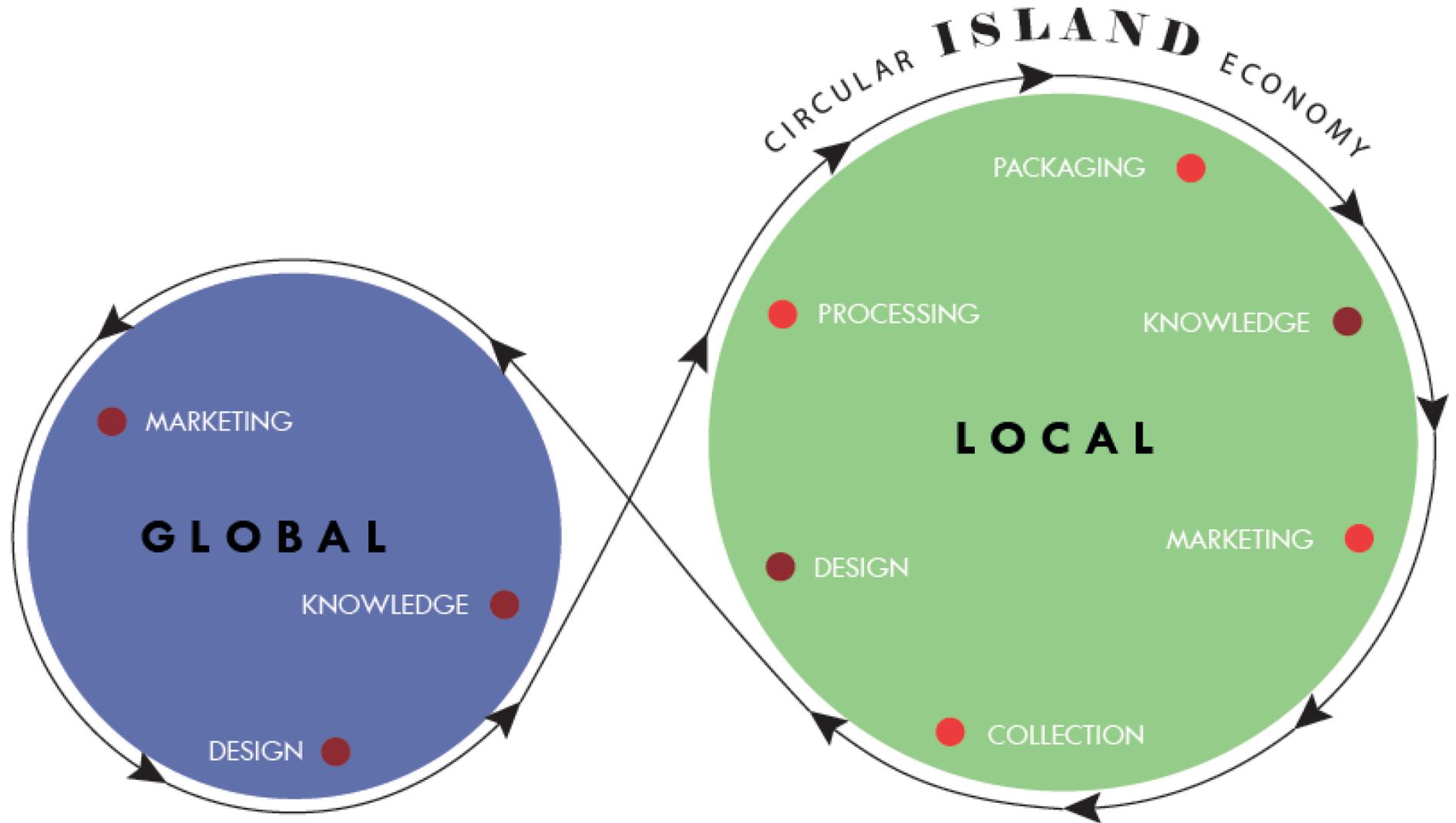
Bornholm – South Korea: 7696 km

# Do we need a new model?



# Circular ISLAND economy

Promoting local innovation and decentral production





# Plastic recycling





<http://www.preciousplastic.com/>

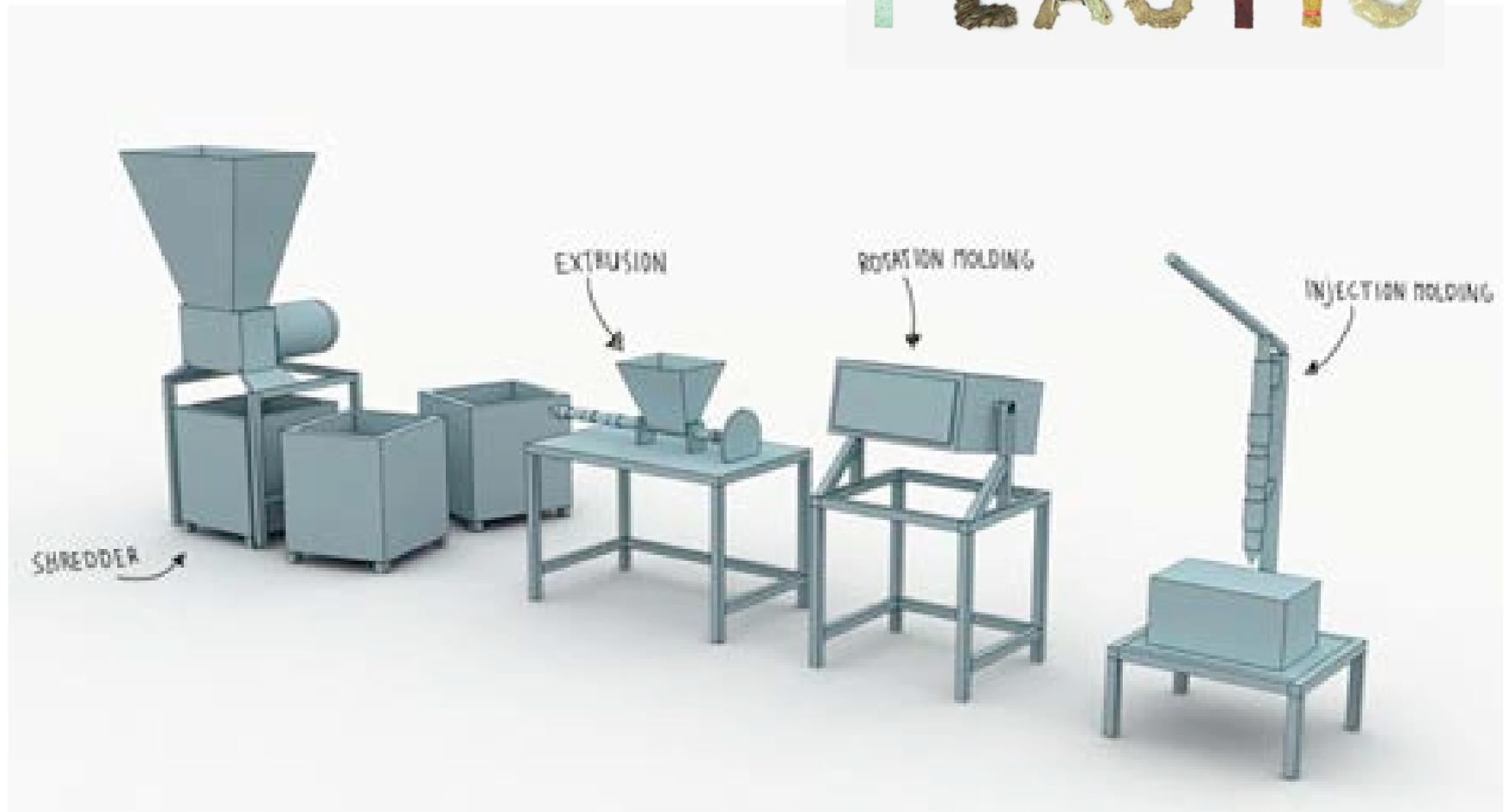


# PRECIOUS PLASTIC



<http://www.preciousplastic.com/>

# PRECIOUS PLASTIC



<http://www.preciousplastic.com/>



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<http://www.preciousplastic.com/>



# PRECIOUS PLASTIC



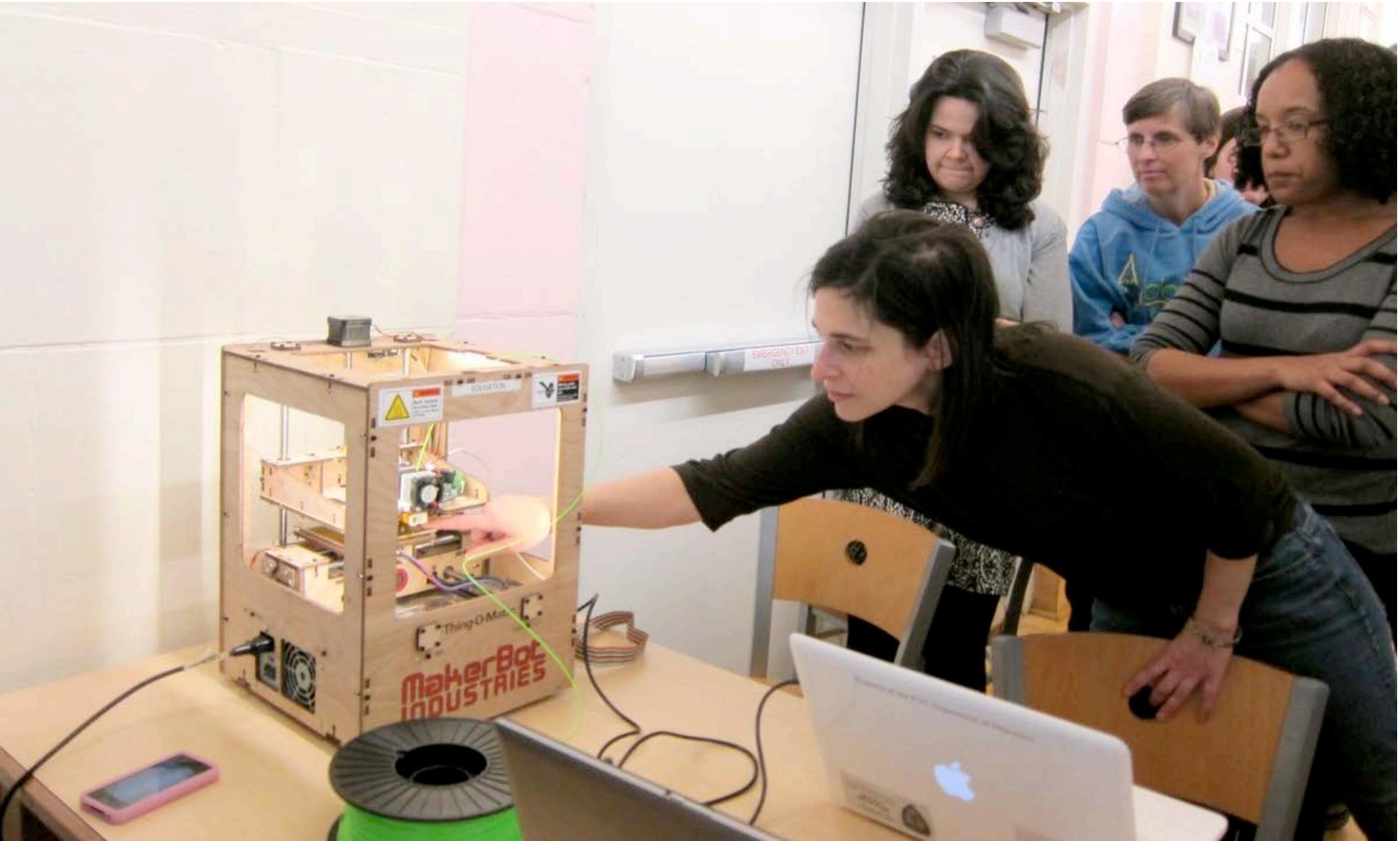
<http://www.preciousplastic.com/>

# PRECIOUS PLASTIC



<http://www.preciousplastic.com/>

# Big local innovation potential in digital fabrication



# ← Thingiverse Challenges



## MakerBot Thingiverse Birdhouse Challenge

**Challenged Closed**

**Deadline:** Jul 17, 2013 12:59 AM EDT

**Total Entries:** [171](#)

### Birdhouse Challenge

Birds need houses, and you, the 3D printing community, can be the ones to help. Enter the Thingiverse Birdhouse Challenge by designing a creative and functional birdhouse to shelter the newly-hatched!

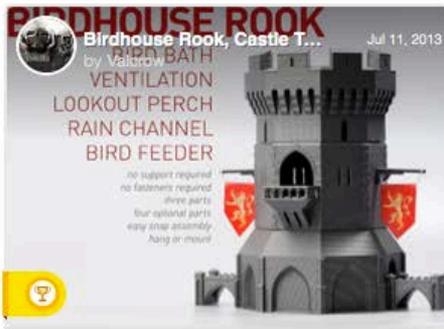
### Challenge Winners

 **the American Craftsman ...** Jul 12, 2013  
by ErikJDurwoodII



  587  478  42

**BIRDHOUSE ROOK, Castle T...** Jul 11, 2013  
by Valcrow



  186  158  27

 **Nested Birdhouse** Jul 11, 2013  
by Gyrobot



**Nested → Birdhouse**

  200  168  24

Entries

[view all >](#)

# A FAST AND EASY WAY TO CREATE 3D MODELS

Quickly turn the things in your world into 3D models that you can modify, improve, share, and 3D print.

**BUNDLE IT!**

Save when you buy a MakerBot Digitizer with a 3D printer



A VIDEO FROM BRE

## CALLING EARLY ADOPTERS

Intended for experimenters and visionaries who are ready to blaze a trail into 3d creation



DOWNLOAD MAKERWARE 2.4.1

**MakerBot Digitizer**  
DESKTOP 3D SCANNER

1

\$949

\$799 +

MakerCare

\$150 =

Total

\$949

**ORDER**

+ future potential for local innovation  
using digital fabrication



The power of  
opensource!



# Will sustainable island living make people more happy?





Islands  
offers a  
great space  
for

# THE CASE FOR WORKING WITH YOUR HANDS

'THE BEST BOOK I HAVE READ FOR AGES'  
MATTHEW D'ANCONA, *DAILY TELEGRAPH*

'MASTERLY' *ECONOMIST*

OR WHY OFFICE  
WORK IS BAD FOR US  
AND FIXING THINGS  
FEELS GOOD



MATTHEW CRAWFORD



# Higher valuation of self-made products.

H A R V A R D | B U S I N E S S | S C H O O L



## **The “IKEA Effect”: When Labor Leads to Love**

**Michael I. Norton  
Daniel Mochon  
Dan Ariely**

# Sense of coherence

*"We are coming to understand health..as the process by which individuals maintain their sense of coherence (i.e. sense that life is comprehensible, manageable, and meaningful)..."*



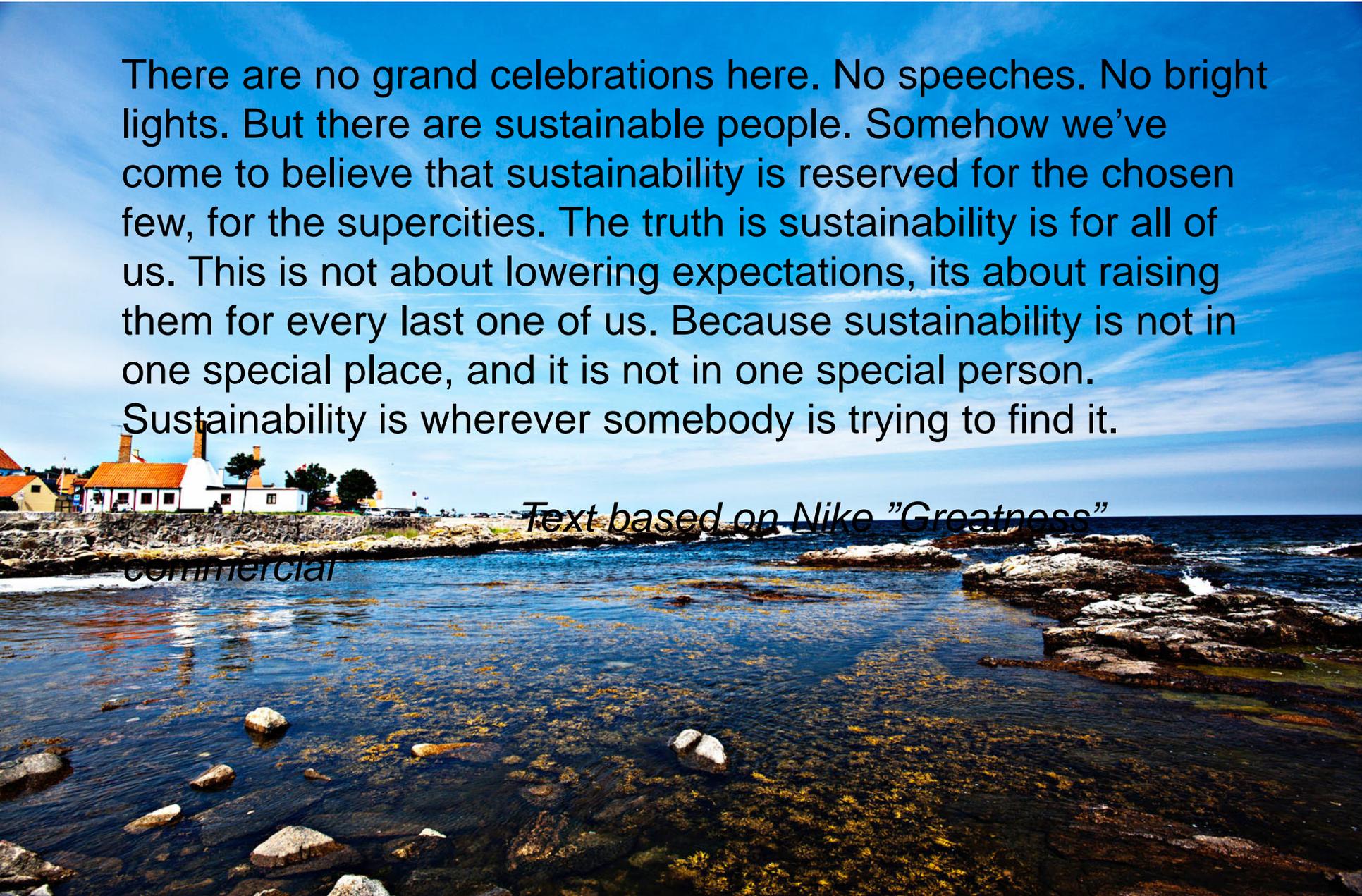
**FIND YOUR GREATNESS.**



There are no grand celebrations here. No speeches. No bright lights. But there are sustainable people. Somehow we've come to believe that sustainability is reserved for the chosen few, for the supercities. The truth is sustainability is for all of us. This is not about lowering expectations, its about raising them for every last one of us. Because sustainability is not in one special place, and it is not in one special person. Sustainability is wherever somebody is trying to find it.

*Text based on Nike "Greatness"*

*commercial*



# Thank you.

Follow Bornholm - Bright Green Island at:  
[www.brightgreenisland.com](http://www.brightgreenisland.com)

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<http://cocreative.com>

