





Welcome to Session 18

The nature experience: behaviour change, conservation and technology



Keynote & Introduction

Julia Townsend, Enviro-Strategy



Behavior Design is the process and science of encouraging new habits and change by design.

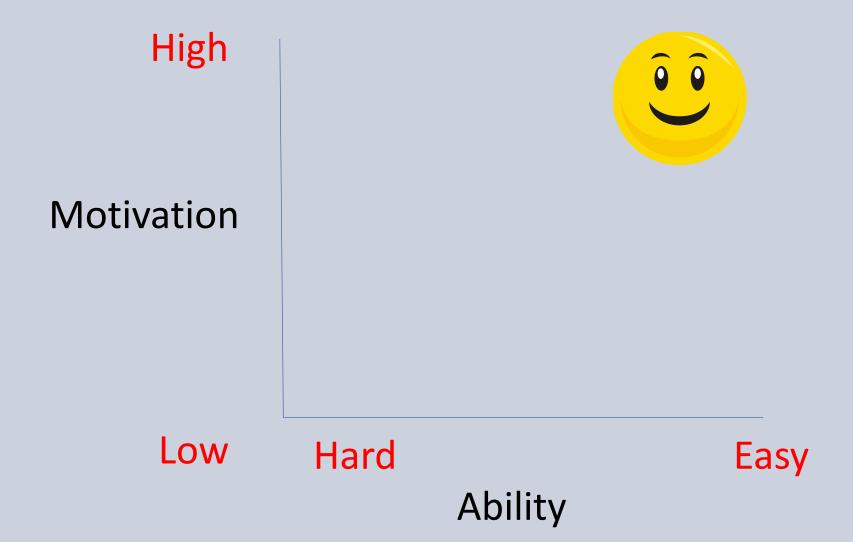








High Motivation Low Hard Easy Ability



High Motivation Low Hard Easy Ability

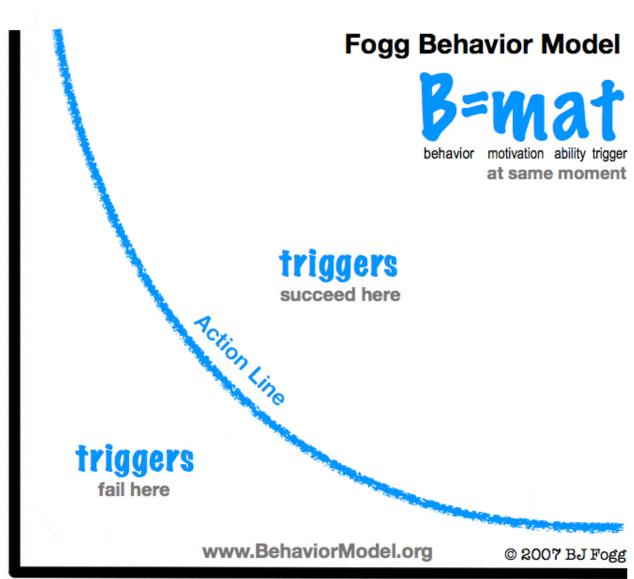
High Motivation Low Hard Easy Ability

High Motivation

motivation

Low Motivation

For permissions, contact BJ Fogg



Hard to Do



Easy to Do

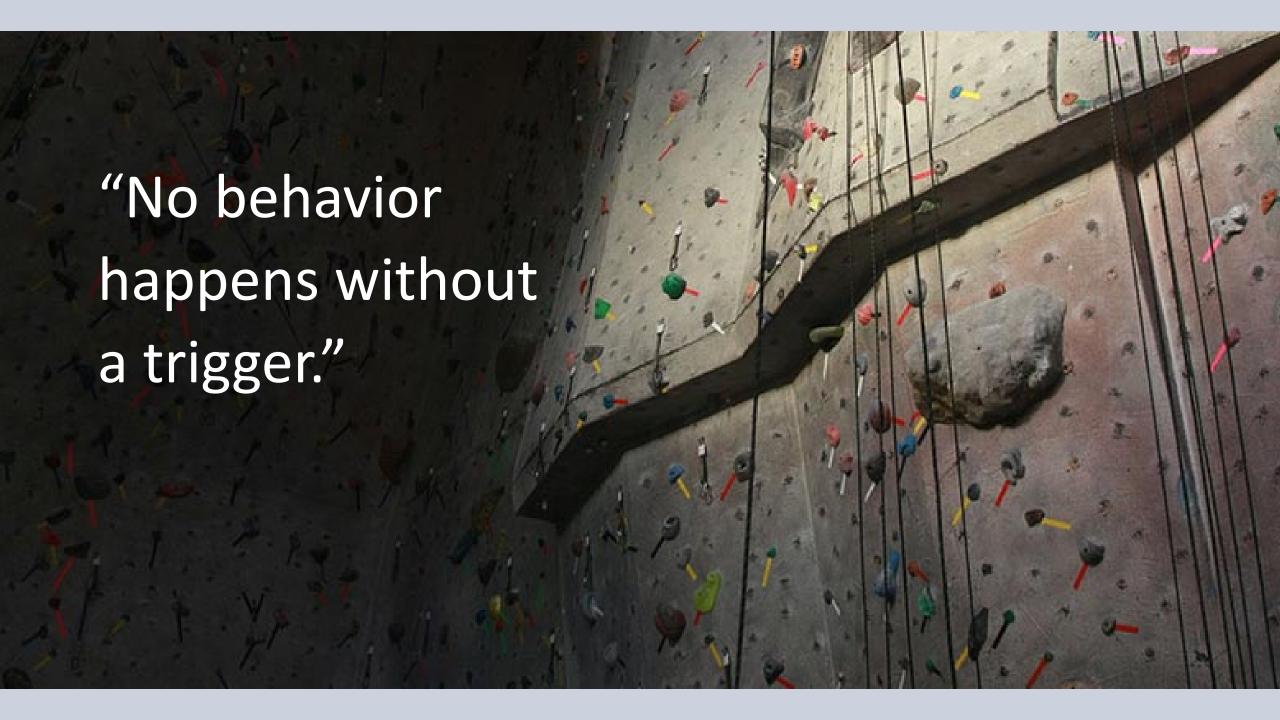
Fogg Behavior Grid

BehaviorGrid.org

For permission to use, contact BJ Fogg	Green behavior Do new behavior, one that is unfamiliar	Blue behavior Do familiar behavior	Purple behavior Increase behavior intensity or duration	Gray behavior Decrease behavior intensity or duration	Black behavior Stop doing a behavior
Dot behavior is done one-time	GreenDot Do new behavior one time Install solar panels on house	BlueDot Do familiar behavior one time Tell a friend about eco-friendly soap	PurpleDot Increase behavior one time Plant more trees and local plants	GrayDot Decrease behavior one time Buy fewer boxes of bottled water	BlackDot Stop doing a behavior one time Turn off space heater for tonight
Span behavior has duration, such as 40 days	GreenSpan Do new behavior for a period of time Carpool to work for three weeks	BlueSpan Do familiar behavior for a period of time Bike to work for two months	PurpleSpan Increase behavior for a period of time Take public bus for one month	GraySpan Decrease behavior for a period of time Take shorter showers this week	BlackSpan Stop a behavior for a period of time Don't water lawn during summer
Path behavior is a permanent change	GreenPath Do new behavior from now on Start growing own vegetables	BluePath Do familiar behavior from now on Turn off lights when leaving room	PurplePath Increase behavior from now on Purchase more local produce	GrayPath Decrease behavior from now on Eat less meat from now on	BlackPath Stop a behavior from now on Never litter again

The Importance of Triggers





Hot triggers...

can be acted on in the moment.







Cold triggers...cannot be acted on in the moment.

WOMEN MEN GIRLS BOYS BABY SHOES JEWELRY WEDDING SALE DISCOVERED BLOG

WHEN IT'S TIME TO RETIRE YOUR OLD JEANS GRACEFULLY...

RECYCLE YOUR OLD PAIR & SAVE ON A NEW PAIR



J.CREW × BLUE JEANS GO GREEN™ #JCREWDENIM

SEARCH Q

FROM 8/21 TO 9/30, GET \$20
TOWARD YOUR NEXT J.CREW
DENUM PURCHASE IN STORES

WHEN YOU BRING IN AN OLD
PAIR OF JEANS.* OUR FRIENDS
AT BLUE JEANS GO GREEN™
WILL RECYCLE THEM INTO
ECO-FRIENDLY ULTRATOUCH™
DENIM INSULATION FOR
COMMUNITIES IN NEED.

FIND A STORE >

"Put hot triggers in the path of motivated people."

-BJ Fogg





#1 Focus on behaviors



















#1 Focus on behaviors

#2 Make it easy

#3 Show the behavior you want to see

#4 Check out Tiny Habits



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www.enviro-strategy.com

GROUP DISCUSSION





Inactive engagement: current state of health care



Wearable sensors – a chance to reshape our engagement with nature and our health?

- Learning about our movement in nature
- Sharing our impressions
- Understanding the impact of contact with nature on our health



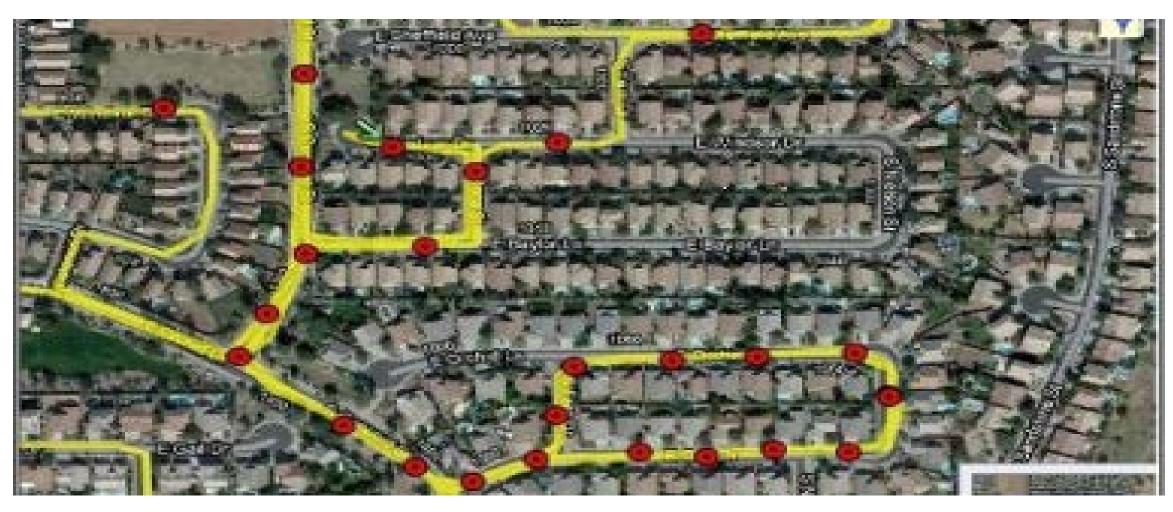
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Wearables allow us to learn about our movement in nature



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Wearables offer us a record of activity for future reference and goal-setting



Wearables provide a means to share our impressions and inspire others



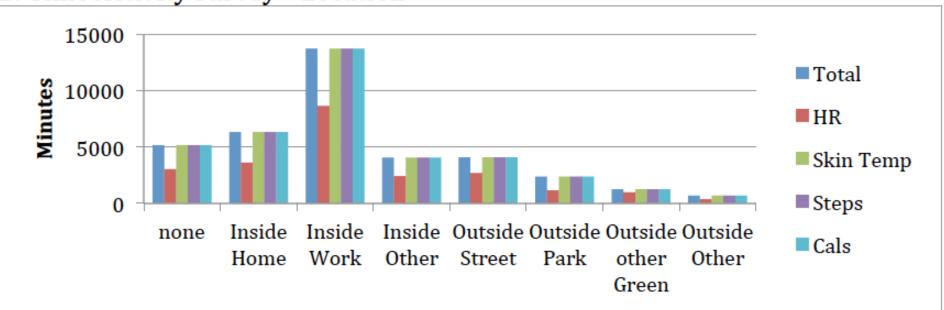
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Wearables allow us to track health indicators in real time

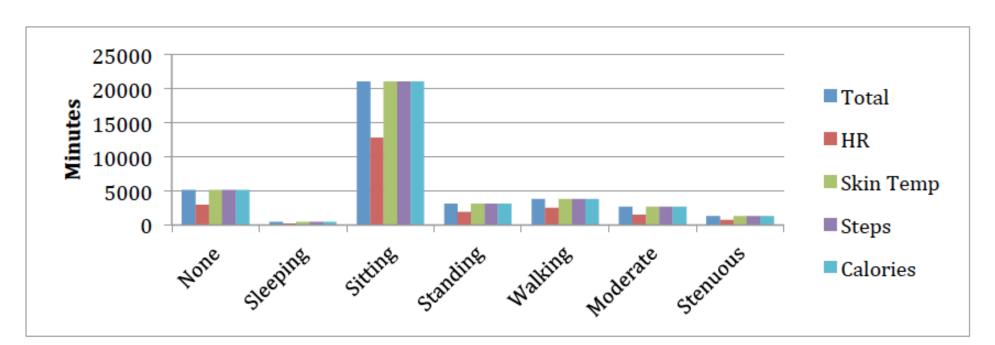


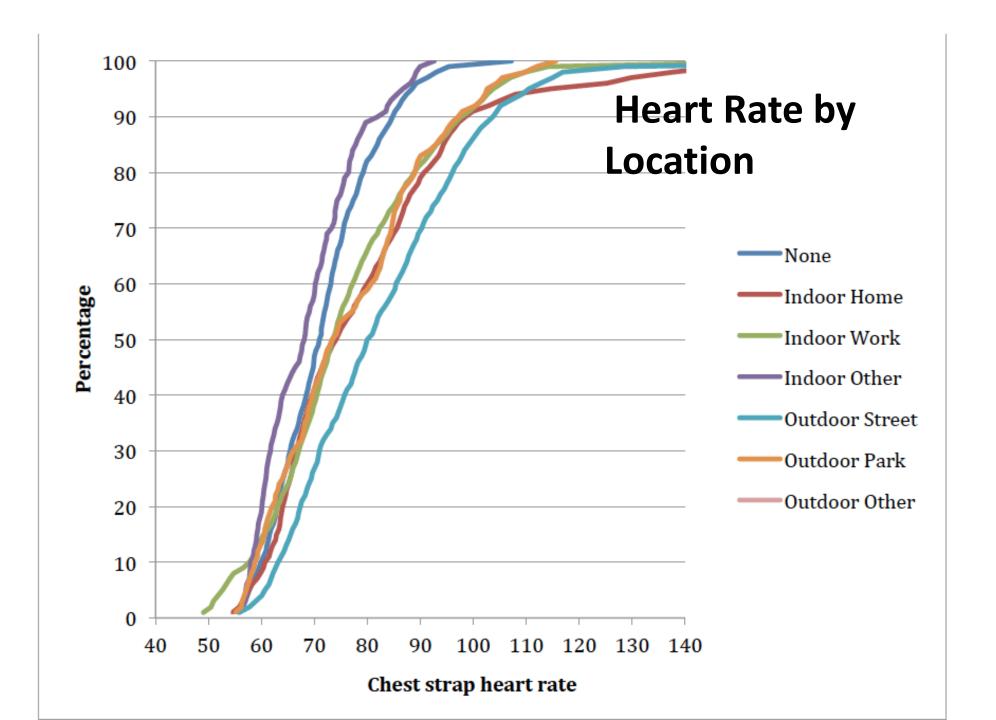
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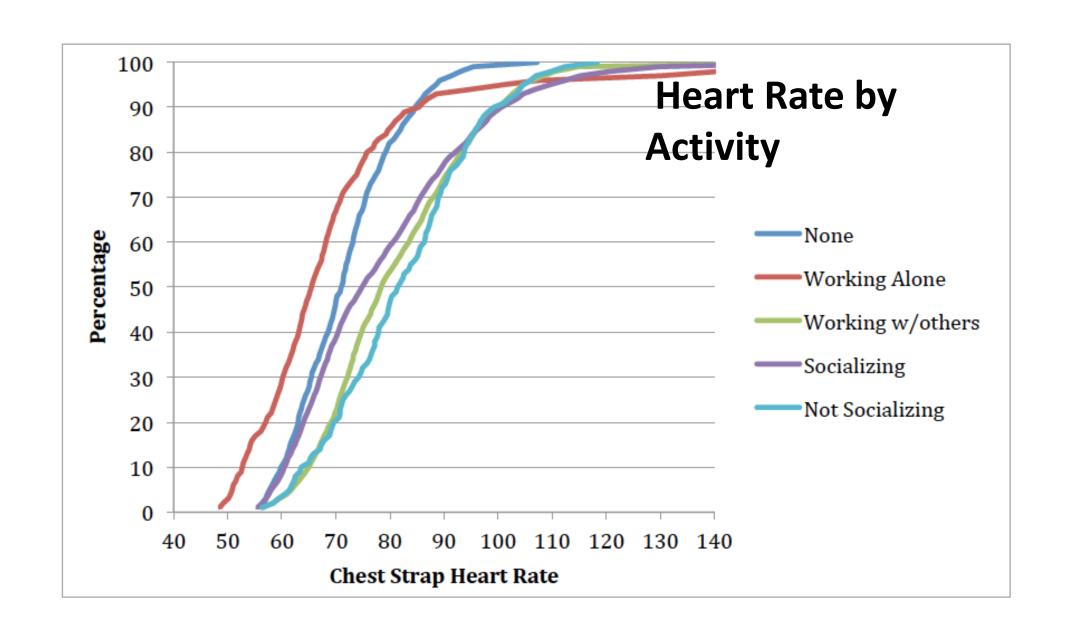
B. Time Activity Survey – Location



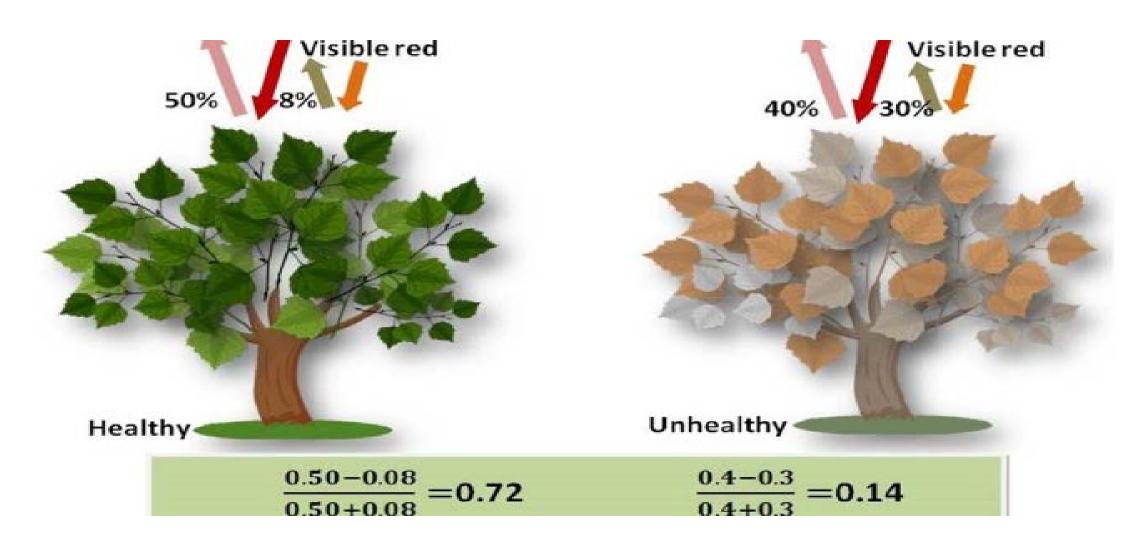
C. Time Activity Survey –Activity







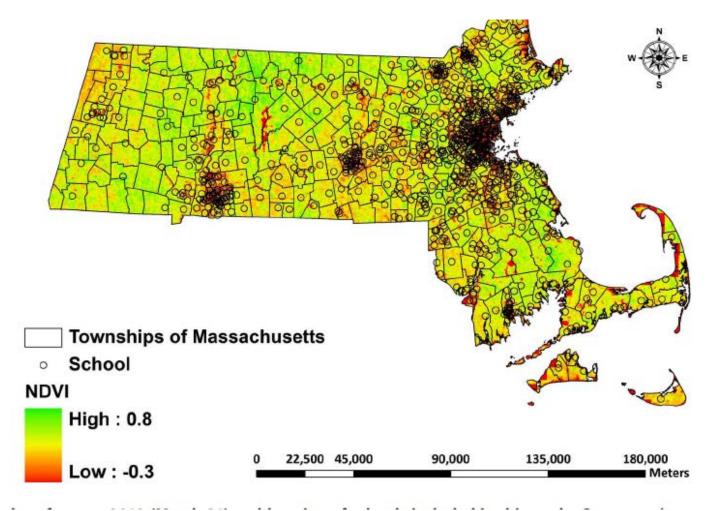
Beyond wearables: other sensor data



<u>Linking Student Performance in Massachusetts Elementary Schools with the</u> <u>"Greenness" of School Surroundings Using Remote Sensing</u>

Wu C-D, McNeely E, Cedeño-Laurent JG, Pan W-C, Adamkiewicz G, et al. (2014) PLoS ONE 9(10): e108548. doi: 10.1371/journal.pone.0108548

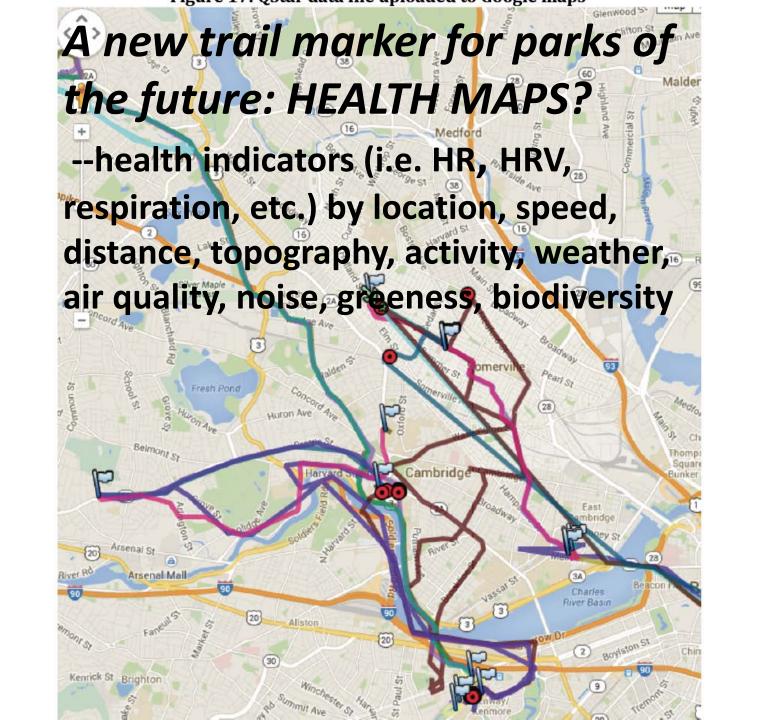
Proximity to "greeness"



The promise of sensor data to affect behavior

Engagement with your environment Feedback--"coaching" healthy behaviors Conservation/stewardship





Healthy Habits:

The Case of Copenhagen's People-First City



First, I want to ask you...







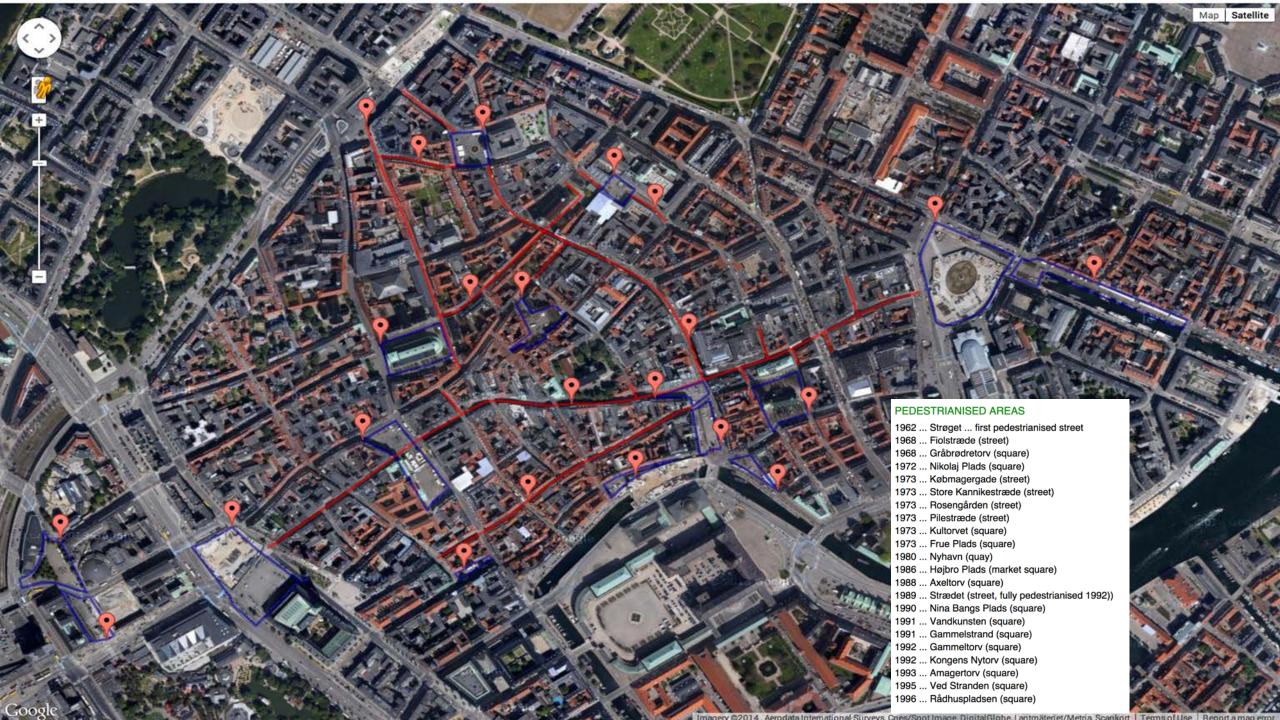
Jan Gehl

Urban Design Maestro

Jan Gehl starts observing and documenting how people use the new Strøget

"What attracts people to stop and linger and look, will invariably be other people."

- Jan Gehl



1962-1988 2-3% less car parks every year

1968-1995 3x walkers on public streets

Now 5000 outdoor cafe seats, used even during winter

Residents increasingly preferred cycling over driving



Now: 37% travel by bike

"This process of continual measuring, evaluating and creating new targets has embedded the values of a people first city at every level."

- Gehl Architects

Pre 2009

New York





Pre 2009



2009-









Melbourne

1990:50 outdoor on-street cafes

Melbourne

2013: 600+ outdoor on-street cafes

Healthy (and unhealthy) habits can be designed!

Thanks!





Stay connected

For more information on the *Healthy Parks Healthy People* approach visit www.hphpcentral.com

Contribute to the Promise of Sydney at www.worldparkscongress.org/about/promise_of_sydney









Coming up in Stream 3

Hall 3B1 Home Room, 3.30pm-5pm

Session 11: Global environmental and health policy: a nexus for change

Charley Room, 3.30-5pm

Session 15: Volunteering in nature benefits humans and ecosystems

Hordern Room, 3.30-5pm

Session 19: The transformational power of nature-based experiences

