s Service Gateway: Creating Internet Se
3DModeling of the Built Environment of

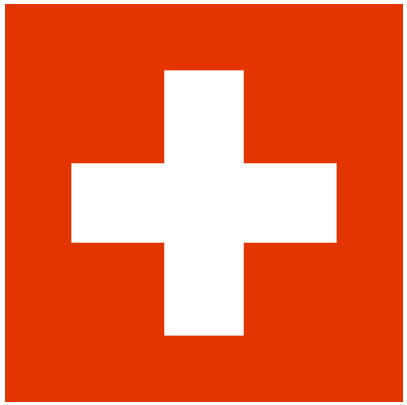
architect + computer scientist

professor

founder of several companies

the internet of things

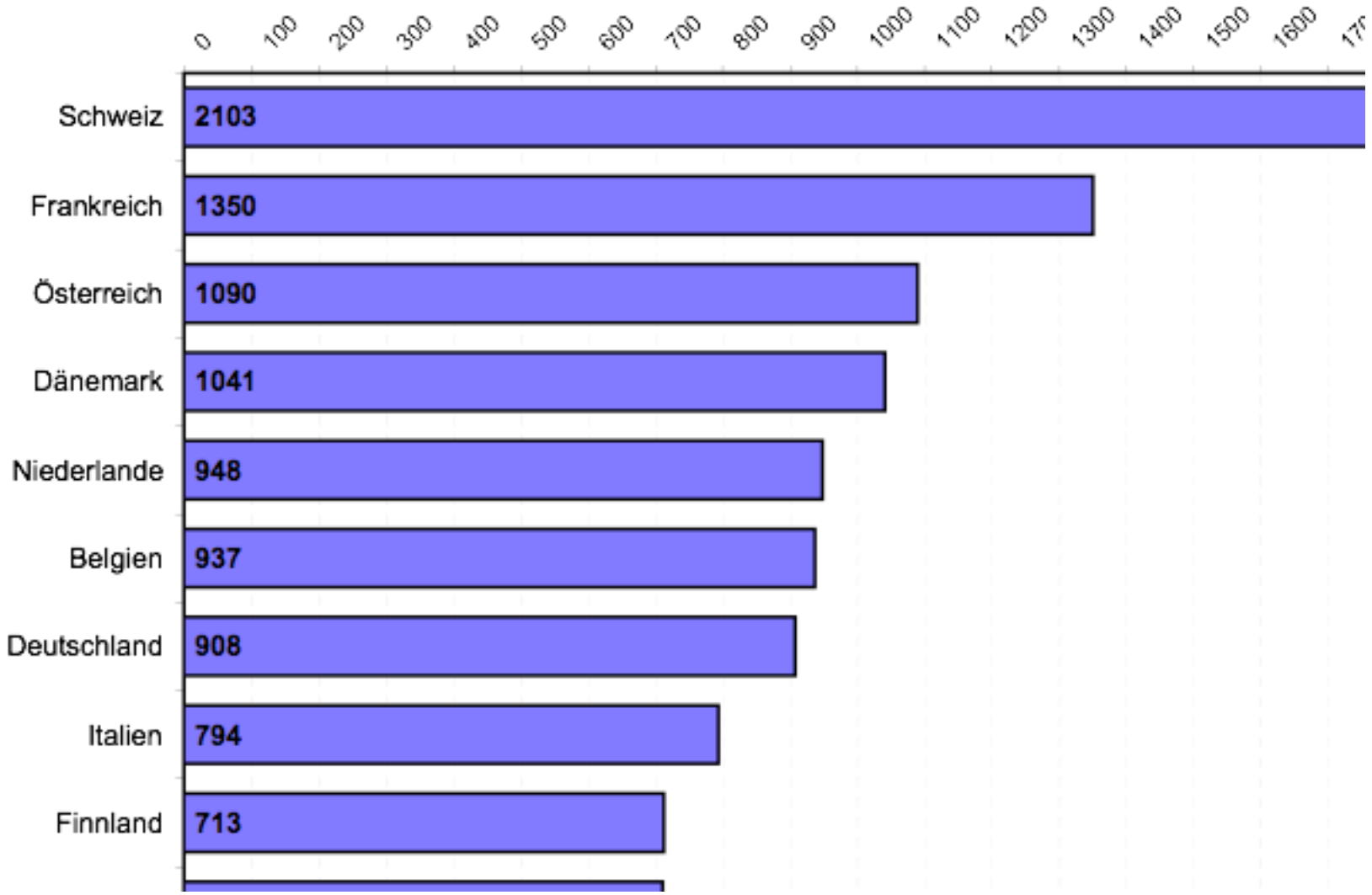
after 40 years ...



Country

Switzerland (CH)

the world number 1 in public t

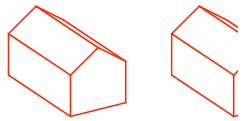


thinking about the convergenc
of information and energy

the internet of things

1. the local view

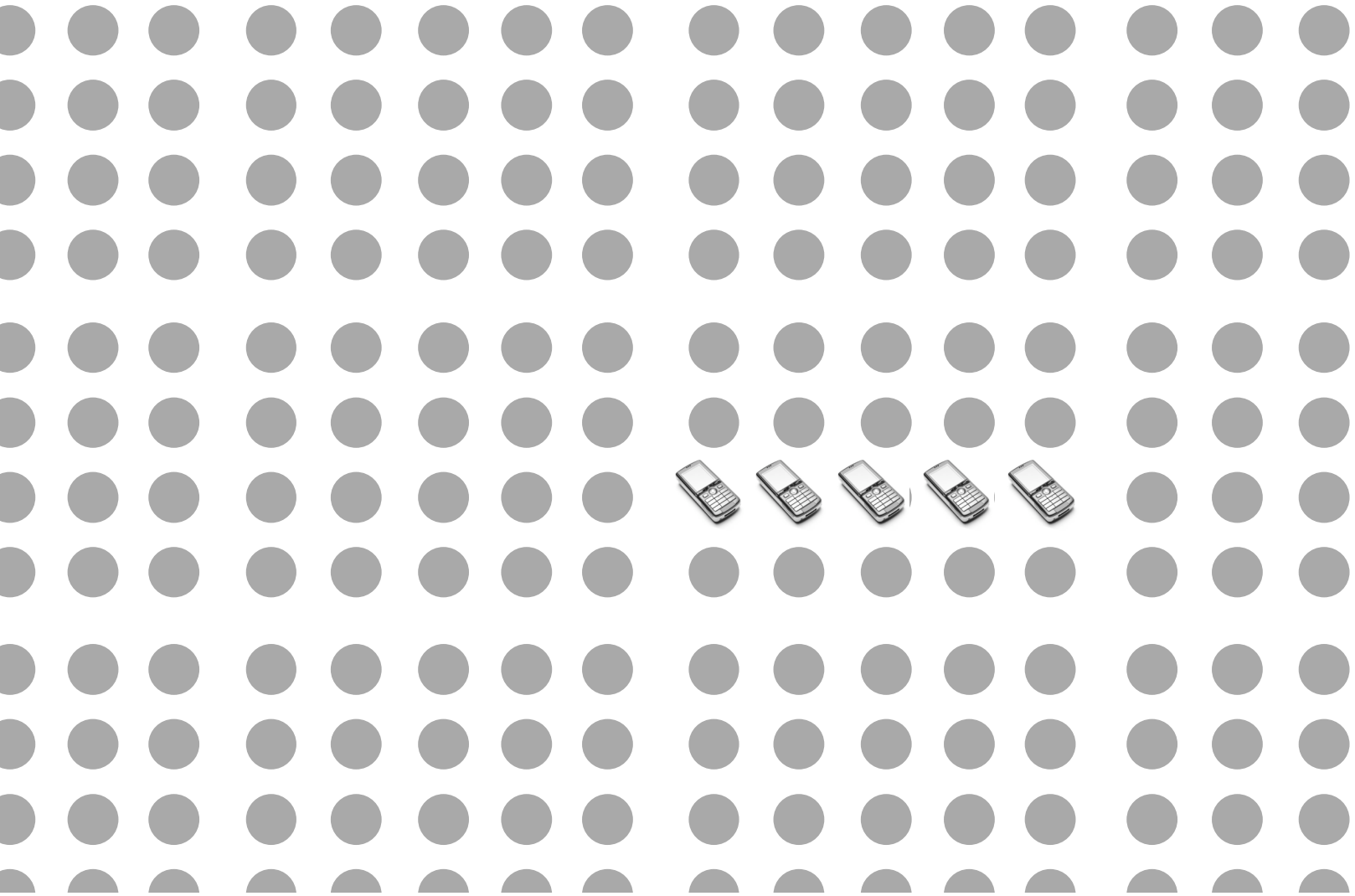
150 million* IP nodes



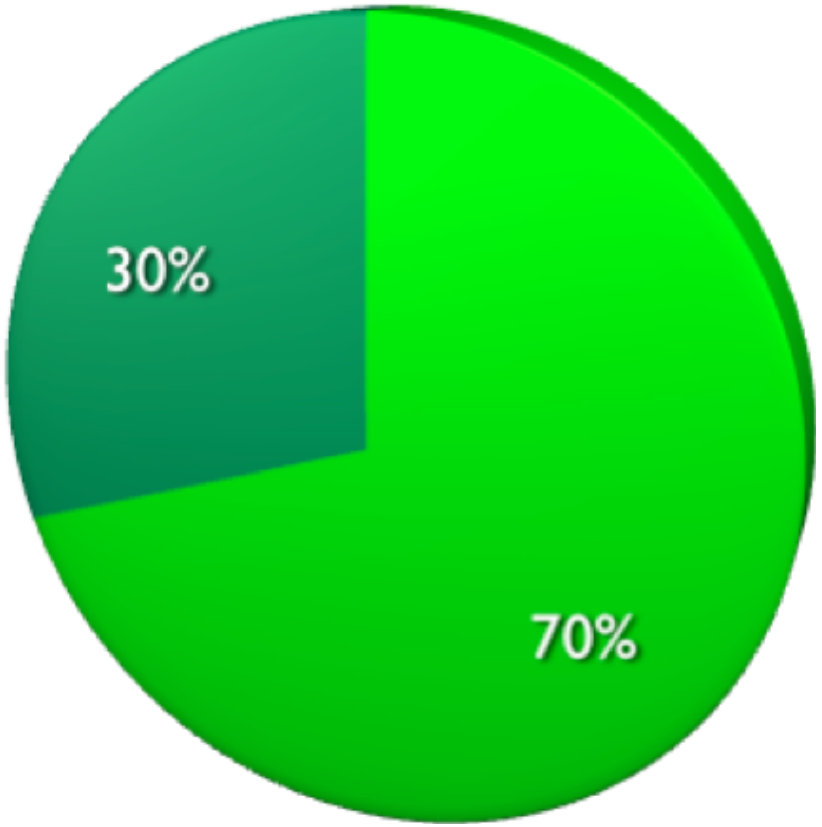
housing units

500 million* nodes

30‘000 million* potential node



mobility



real

why actual technology is not fit for ma

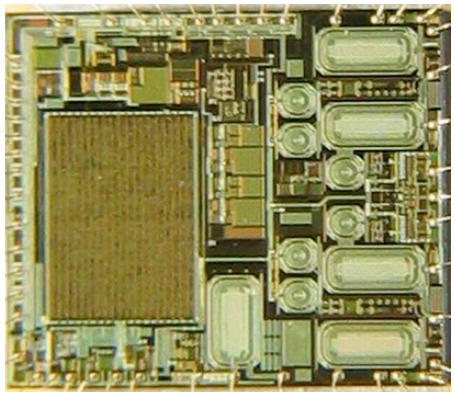
vestment in electrical installation1 node costs about 3

...

1973

after 30 years

2008 introducing:



digitalSTROM®

digitalSTROM®

0.2 cm3

0.1 W / 0.3 W

all-inclusive (PLC modem, power, CPU ...)

meetering at device level

open source

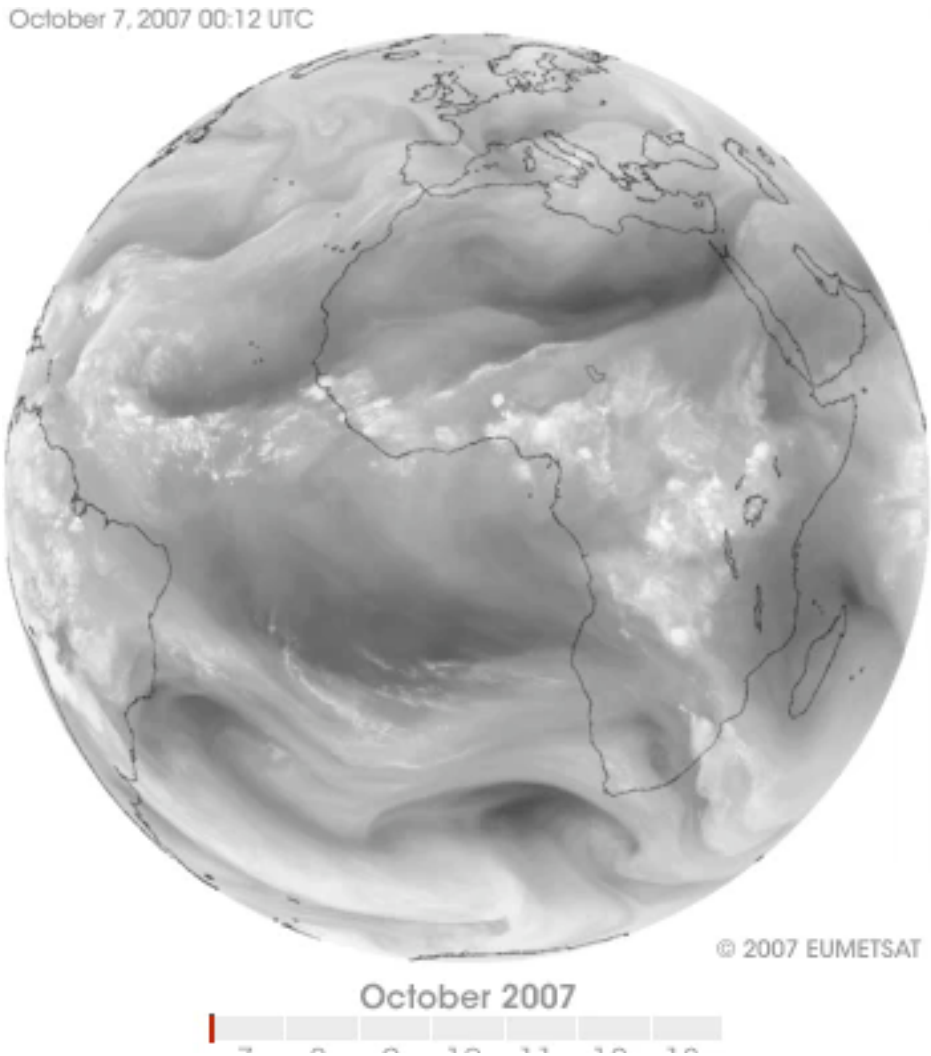
...

lowest price ever

...

2. the global view

10‘000 times more energy than man



ar area needed for actual global energy

Photovoltaic Peak Power Capacity (MWp) 20		
World	7841	
Germany	3862	4
Japan	1919	2
United States	830	1
Spain	655	
othters	575	

+ 1‘000

Northwest China to be home for world’s biggest solar

leave a comment »

+ 800

PG&E Signs Historic 800 MW Photovoltaic S
Agreements With OptiSolar and...

Thu Aug 14, 2008 4:06pm EDT

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PG&E Signs Historic 800 MW Photovoltaic Solar Power Agreements With OptiSolar
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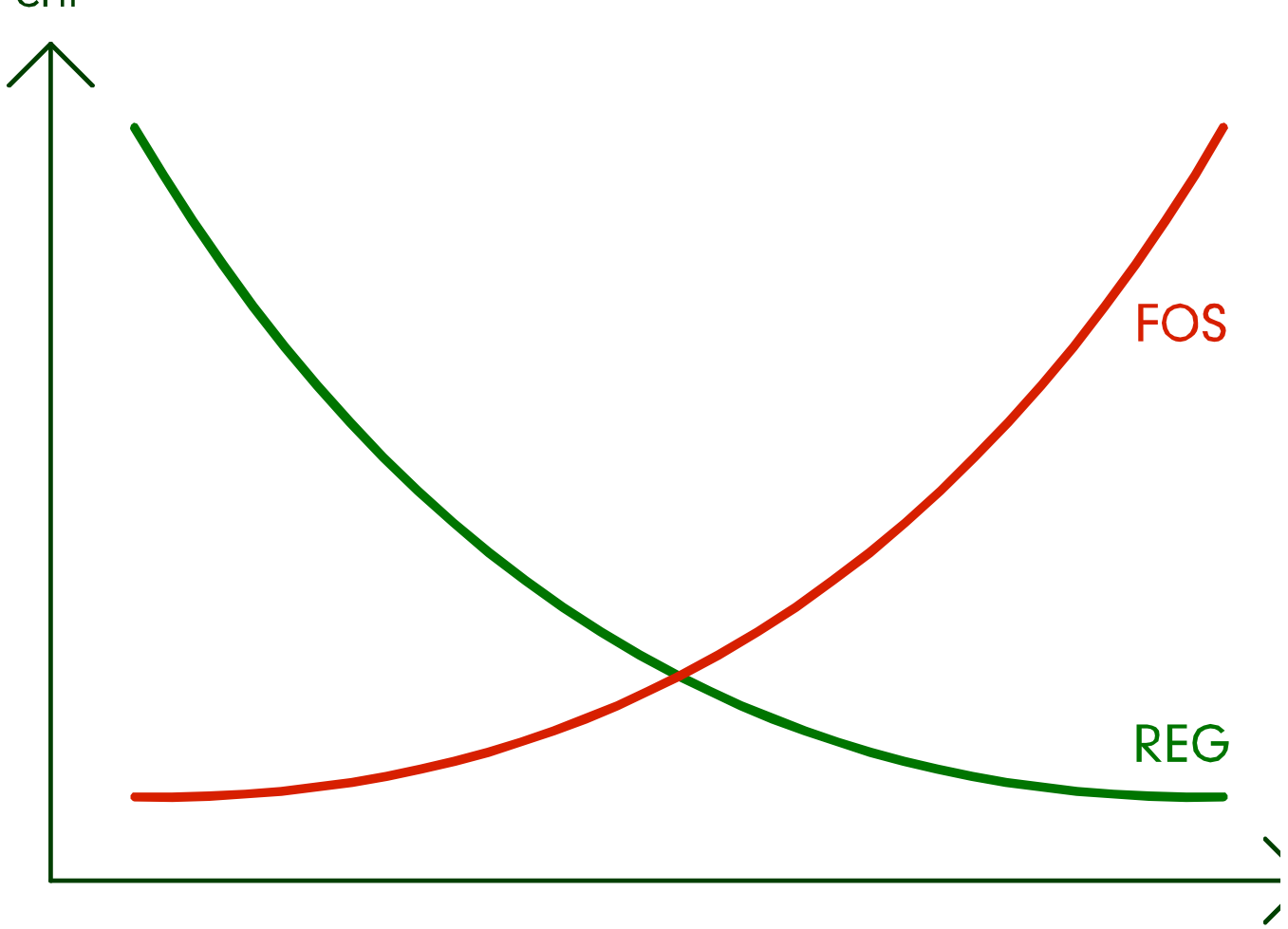
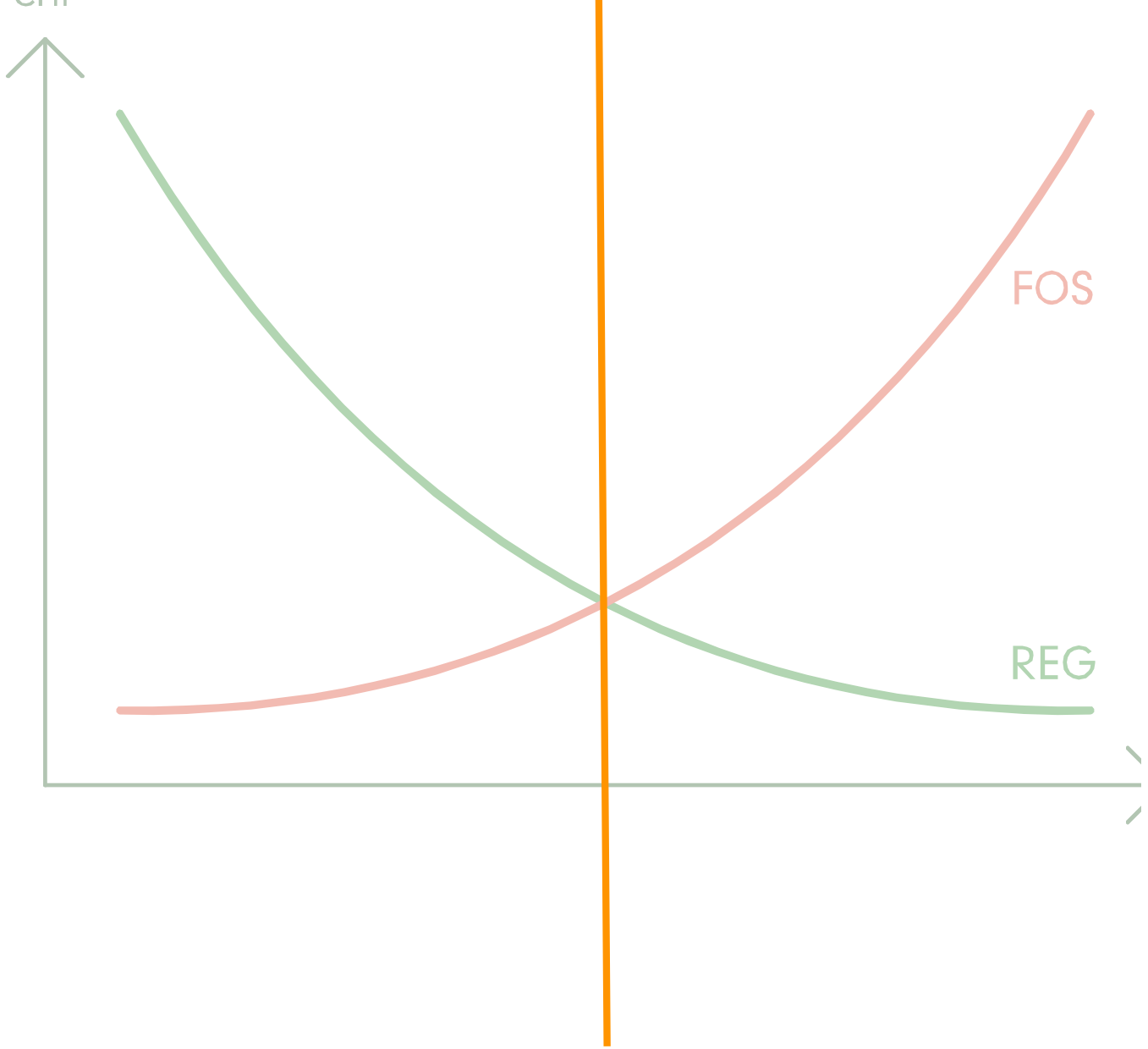
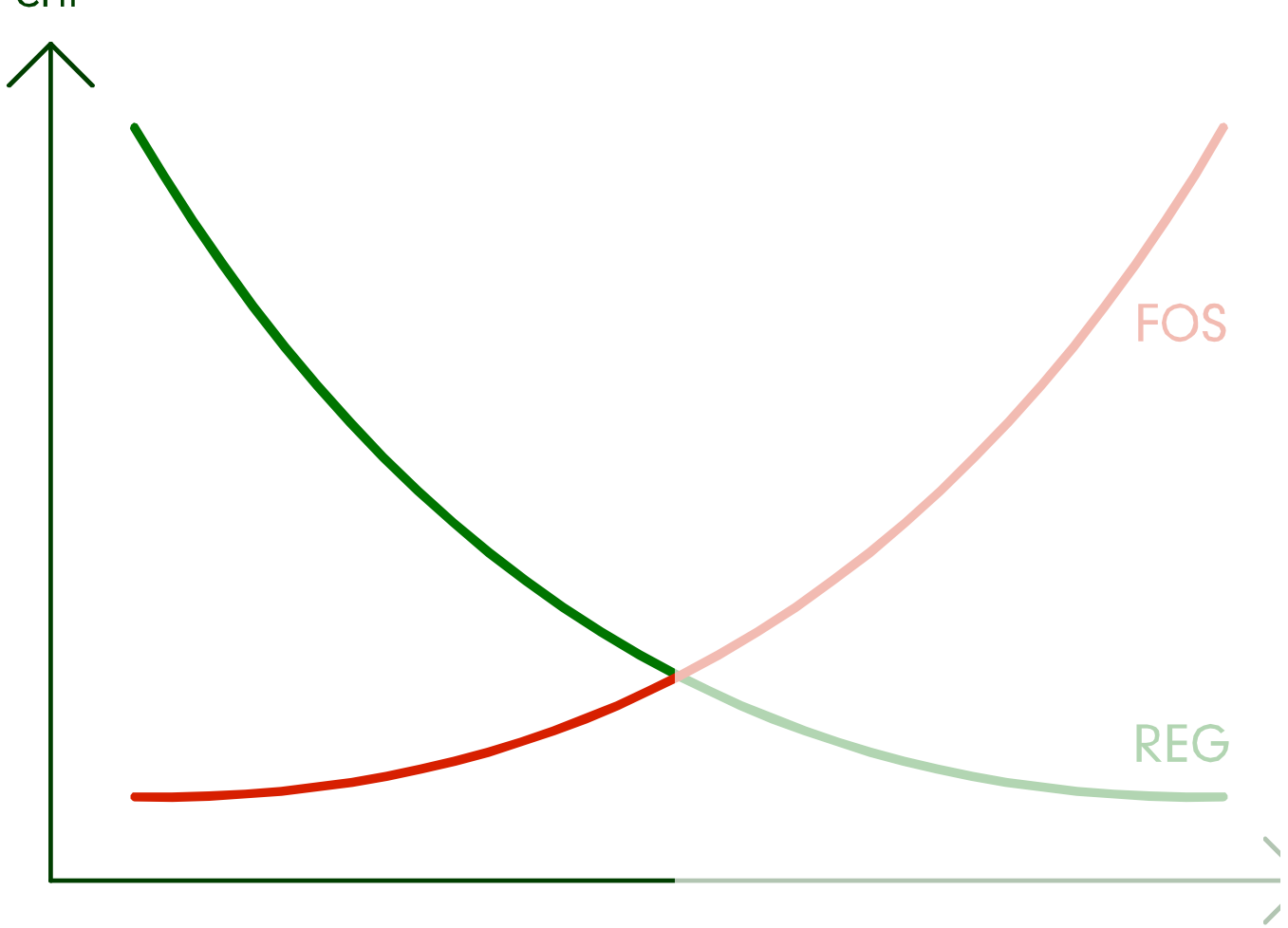


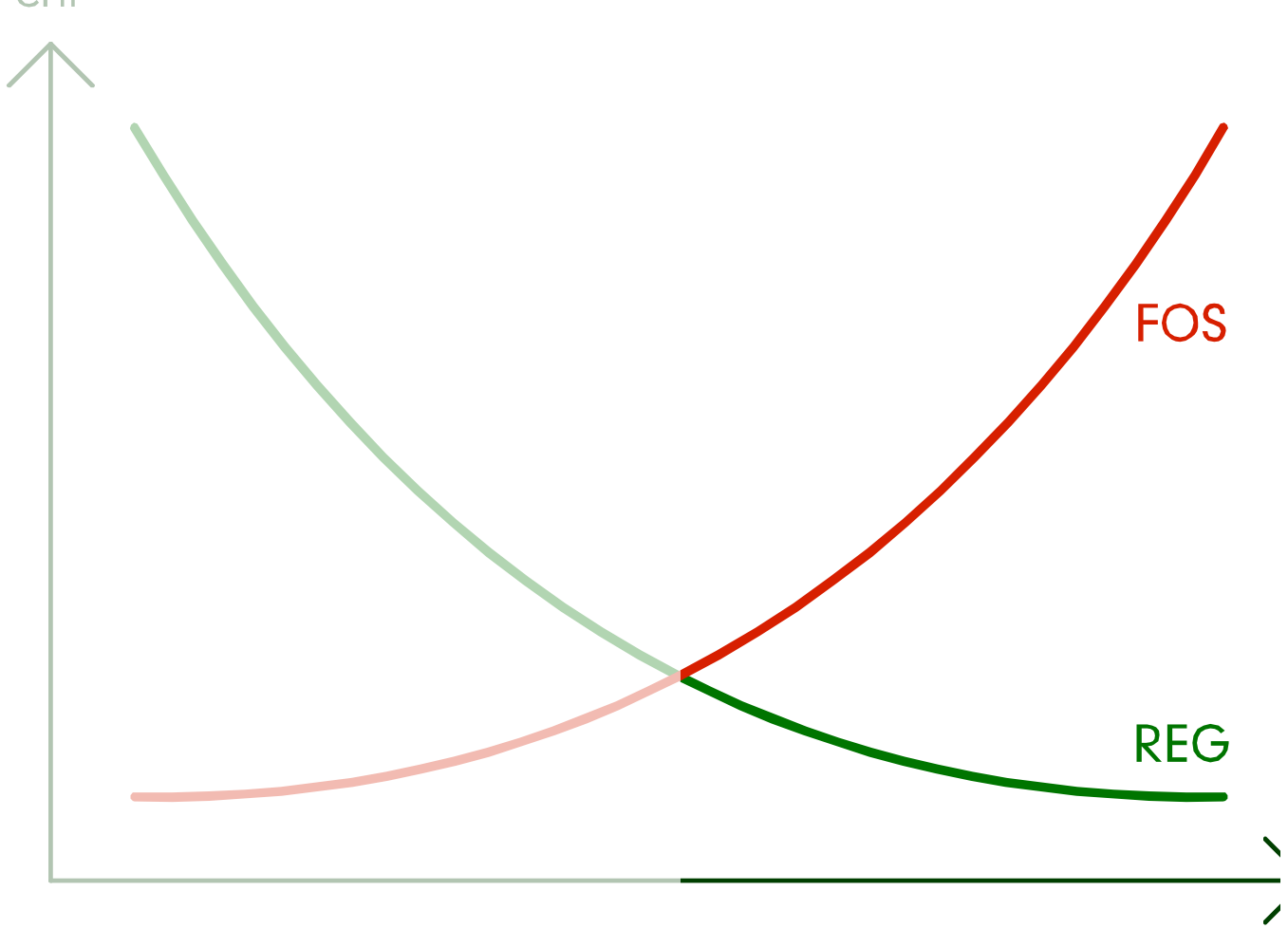
the priciple development of cos


FOS
REG



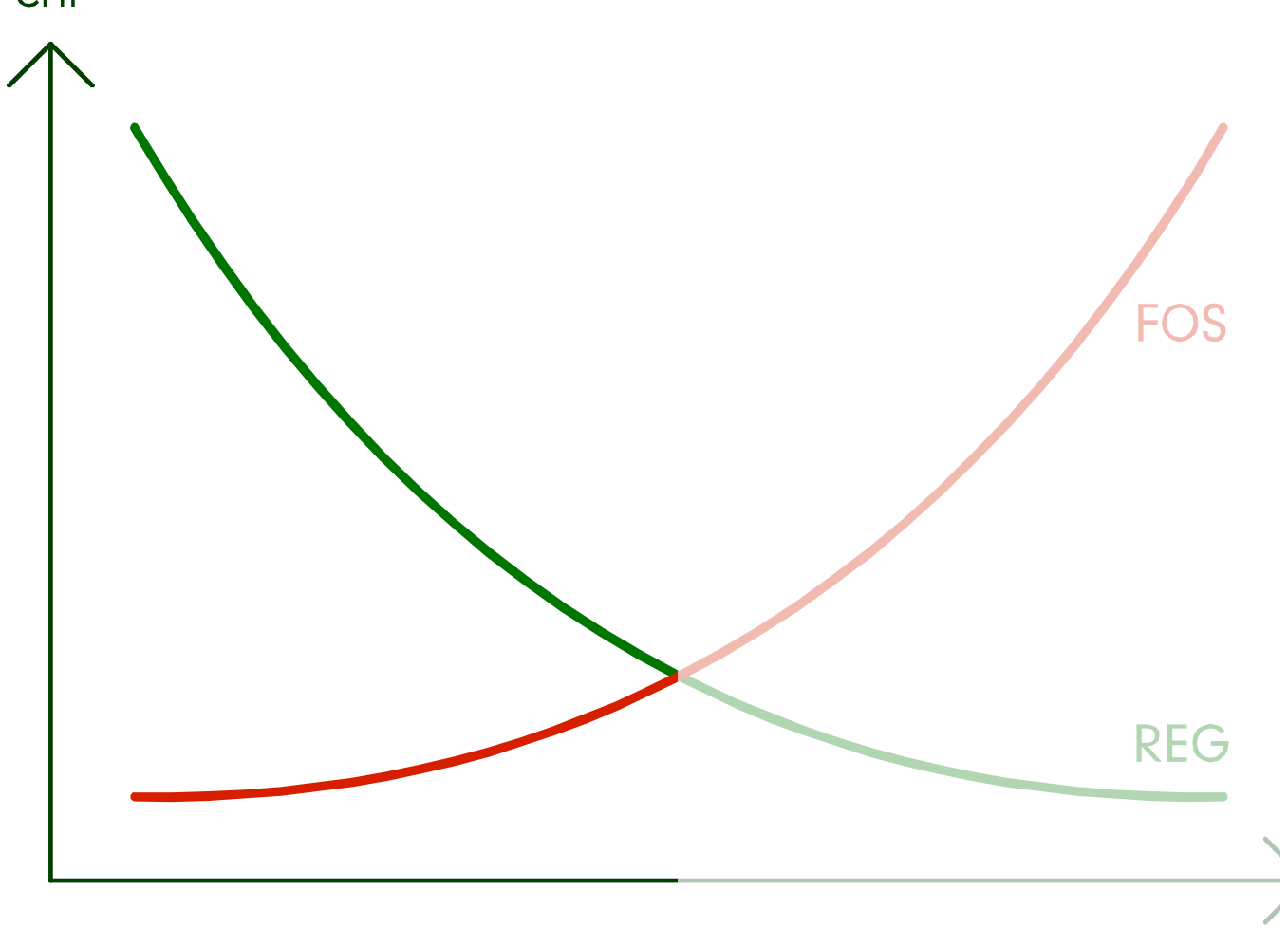
save energy

energy logistics



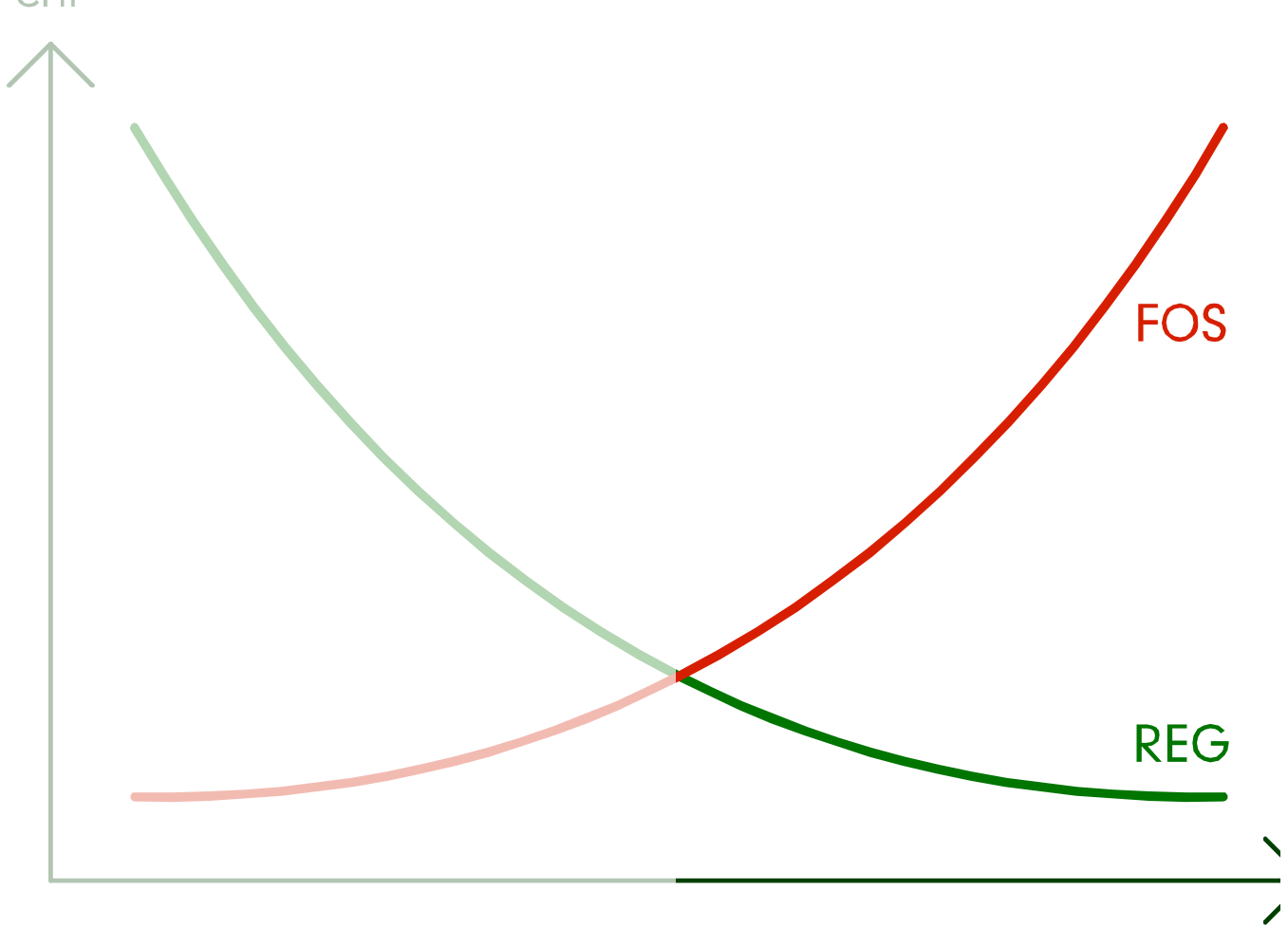
save energy

energy logistics



save energy
ecology

energy logistics
economy



save energy
ecology

energy logistics
economy

we are talking about a fundamental co
of energy and information ...

... but without involving the use

everything is nothing !

schäftskunden

Yello Strom
zähleronline
deckungstour
eugend clever
nt sehenswert
eis berechnen
Kunde werden
Yello Gas
Yello Tel
Mein Yello

Film ab ...

... für die Familie Hoffmann. Sehen Sie hier in drei Episoden, wie der Yello Sparzähler[online] ihr Leben verändert.

http://www.meteoschweiz.admin.ch/web/de/wetter/Detailprognose/lokalprognose.html?langua
Apple
Yahoo!
Google Maps
YouTube
Wikipedia
News (48)
Beliebt
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Français
Italiano
English
→ Über uns
Eidgenössisches Departemer
Bundesamt für Meteorologie
.. Wetter
→ Aktuelles
→ Klima
→ Services
→ Forschung
→ Gefahren
→ Übersicht: Wetter
→ Allgemeine Lage
↓ Detailprognose
.. Lokalprognose
→ Aktuelles Wetter
→ Ozonschicht
→ Gesundheit
→ Vegetationsentwicklung
→ Modellvorhersagen
→ Spezialprognosen
→ Wetterereignisse
→ Wetterrückblick
.. Lokalprognose
Anzeigeoptionen...
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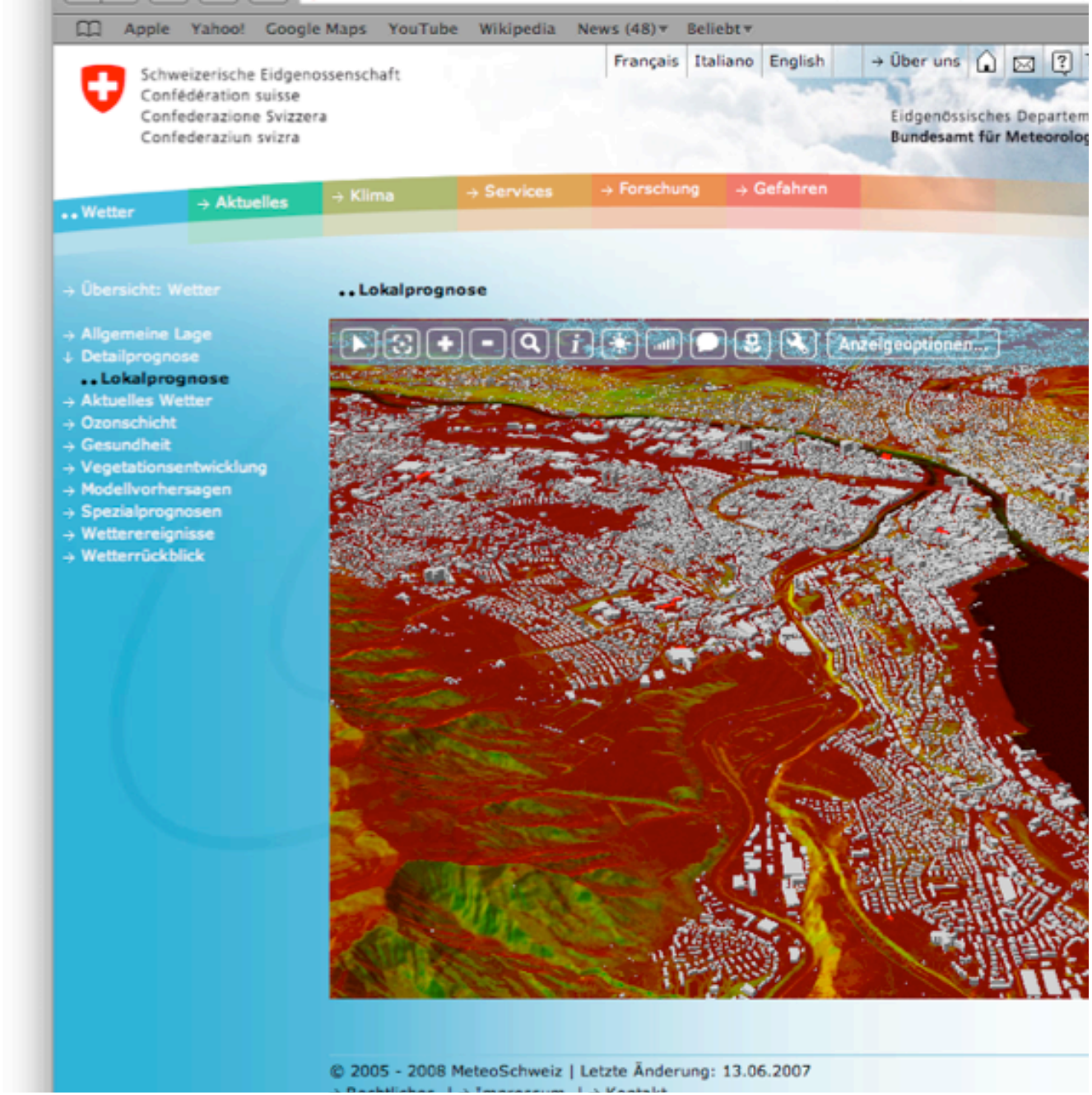
ice Gateway 3D



ice Gateway 3D

the swiss weather channel presents cli

GREEN

we should not simply focus on saving

... we should be creative
towards the digital future of ener

thank you

Prof. L. Hovestadt

1991

3

symbian OS

2001 TOMTOM

1991

3

symbian OS

2001 TOMTOM

Traffic Live

lle Verkehrslage

ich Stadt

uar 2009 18:21h
alisiert vor 1 Min.

richte
mtlänge: 34km
mtwartezeit: 39Min.

ion oder Stadtauswahl

nformationen

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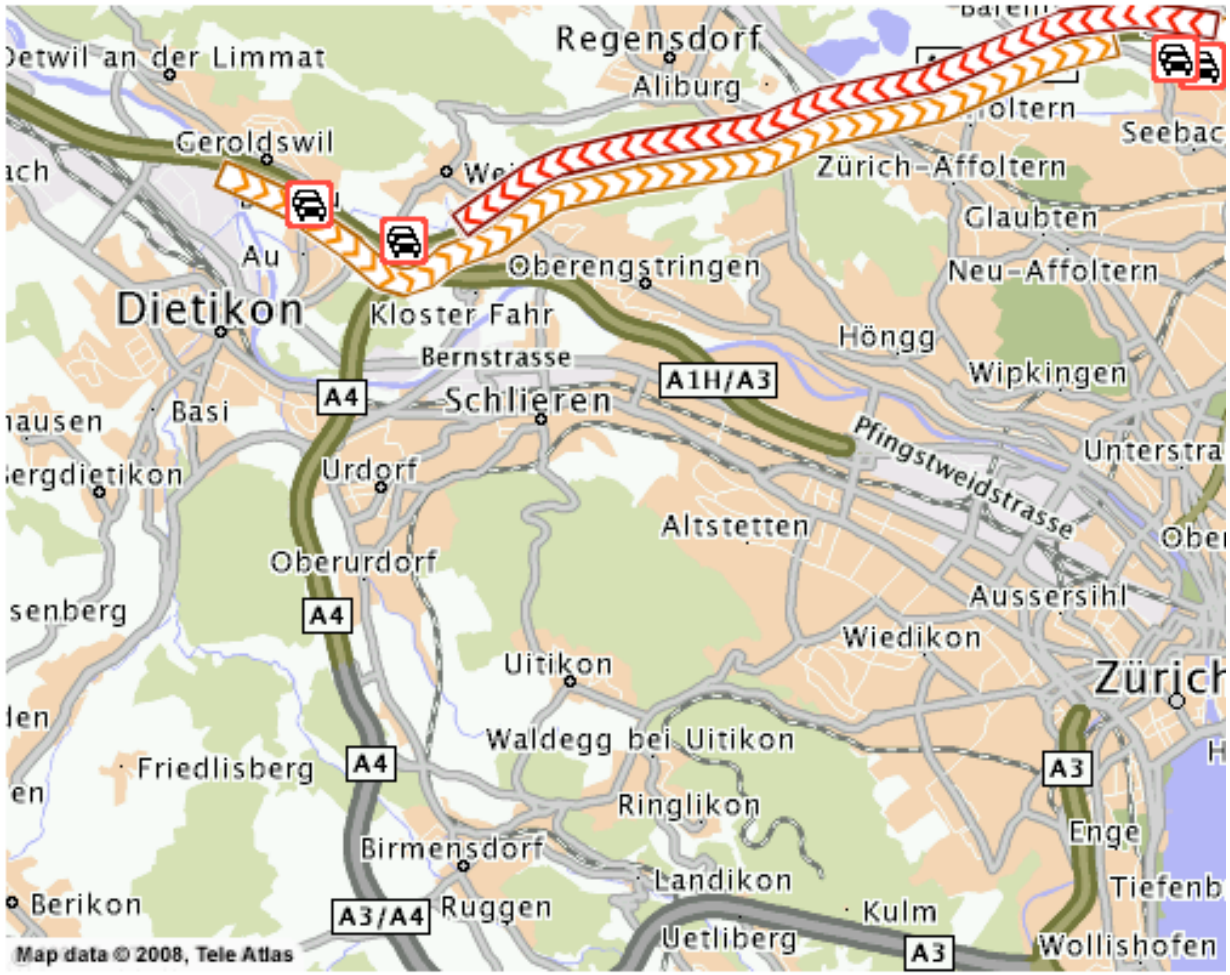
rsmeldungen.
tere Informationen



Kurze Wartezeiten Mittlere Wartezeiten Lange Wartezeiten