



22. Lifefair Forum

**Klimafreundlich Investieren:
Exotische Nische oder profitabler Megatrend?**

Zürich, den 11. April 2016



Klima und Wetter...

Kalifornien
Schlimmste Dürre
seit 1'200 Jahren



Quelle: Geophysical Research Journal, 12/2014



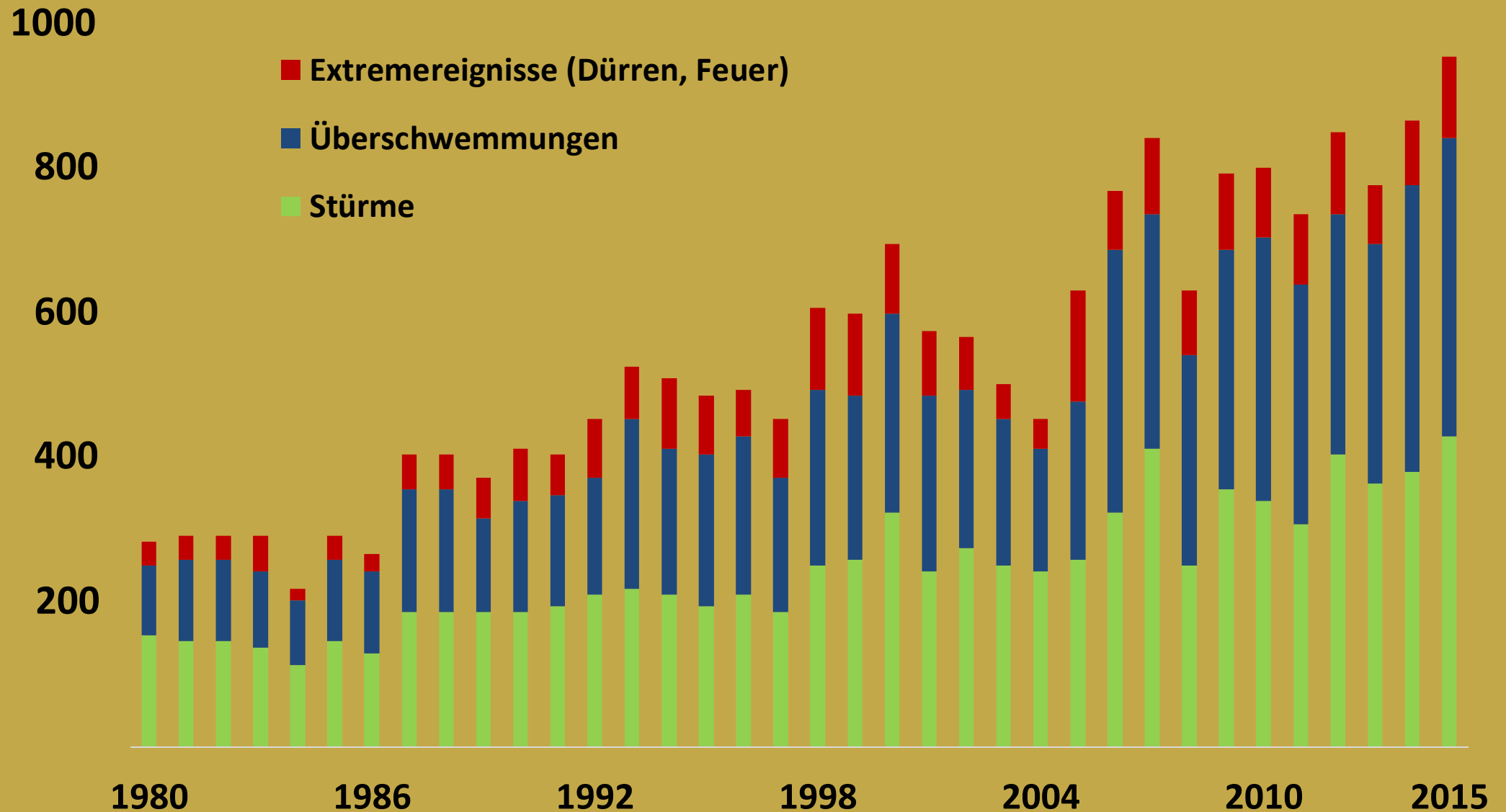
Boston, 7. Februar 2012



Boston, 7. März 2015

Extreme Wetterereignisse

Anzahl weltweite Wetterkatastrophen 1980 - 2015



Der Klimawandel führt
“mit grosser Wahrscheinlichkeit zu
Knappheit bei Wasser und Nahrungsmitteln,
zu **Epidemien, Konflikten** um Ressourcen
und zu weltweiter Umweltzerstörung.”



US Verteidigungsministerium

13. Oktober 2014



Syrien Trockenperiode 2006 – 2010:

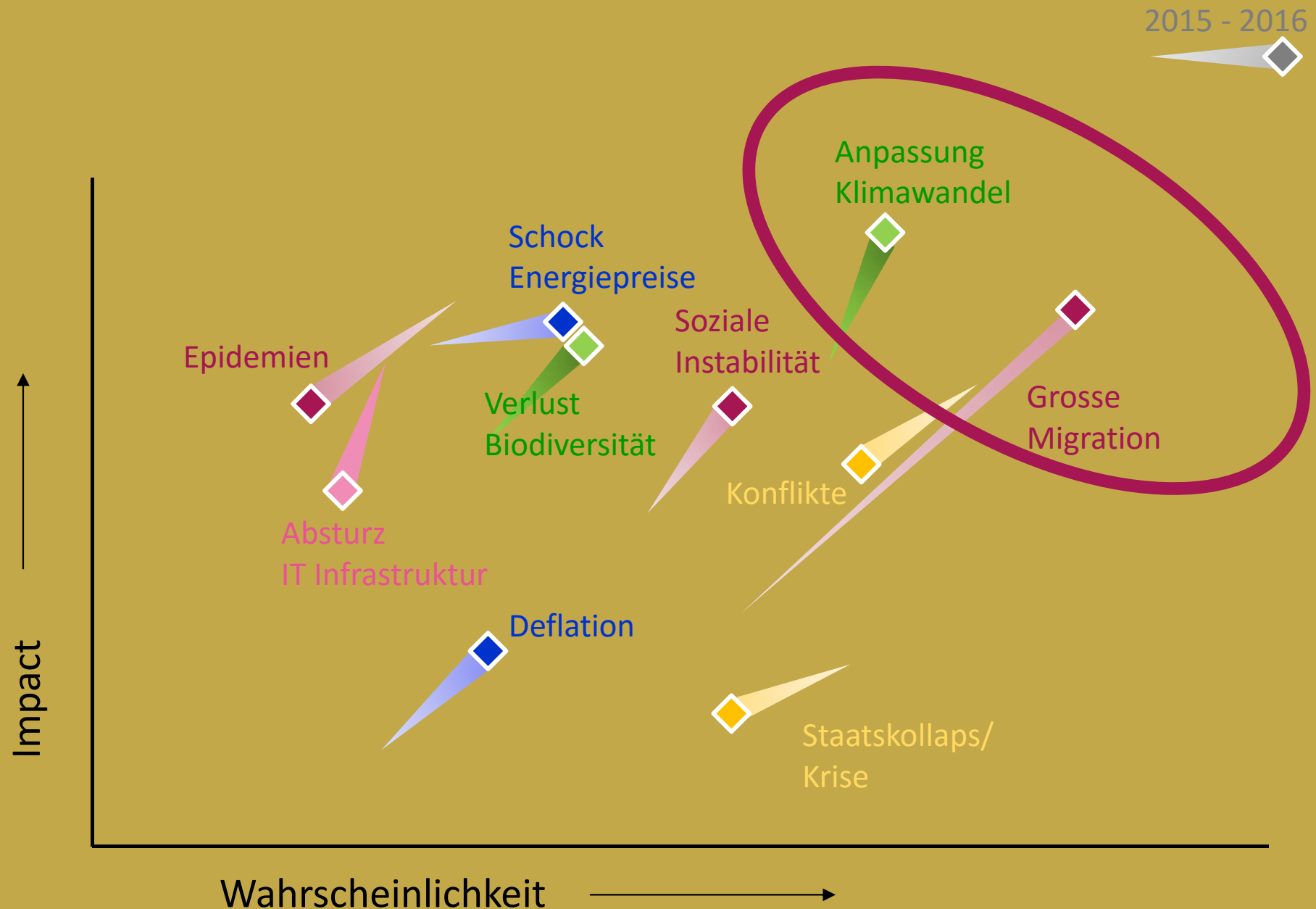
60% Landverlust

....und

1.5 Mio. Menschen flüchten
in die Städte

WEF: 10 grösste globale Risiken

Risk Report 2015: World Economic Forum



Zufriedenheit



Erneuerung



Verleugnung



Konfusion



Tipping Point?



Wissenschaft

Asset Owner

Regulator

Konsumenten



NGO's

Technologie

Regierung

Unternehmen

Die «Asset Owner»



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BARRON'S PENTA

The Rockefellers Offload Oil and Take On Clean Energy

The heirs of Standard Oil are rejecting fossil fuels: Clean-energy investments will soon make up 10% of their foundation's endowment.



Andra AP-fonden
Second Swedish National Pension Fund - AP2

Sweden's AP2 allocates 1% of portfolio to green bonds in strategic shift

Leading investor redefines green bonds as a separate asset class
by Vibeka Mair | April 6th, 2016

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Norway Oil Fund Would Exit Coal-Exposed Firms Under Deal in Parliament

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The New York Times

Yale Fund Takes Aim at Climate Change

By GERALDINE FABRIKANT SEPT. 7, 2014

Zukünftige Abschreibungen....?

> 4°

2795

Aktuelle Reserven
(in GtCO₂)

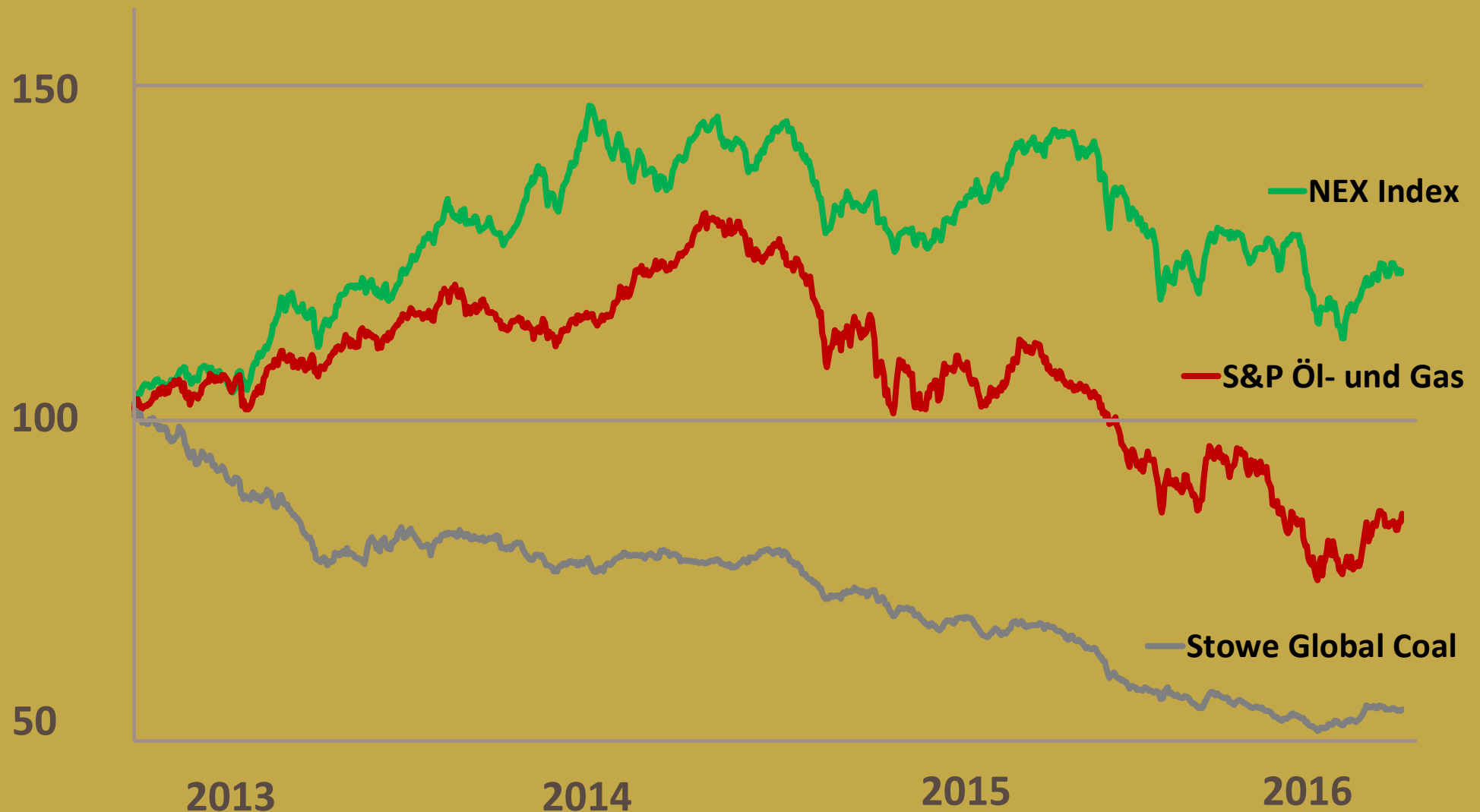
2°

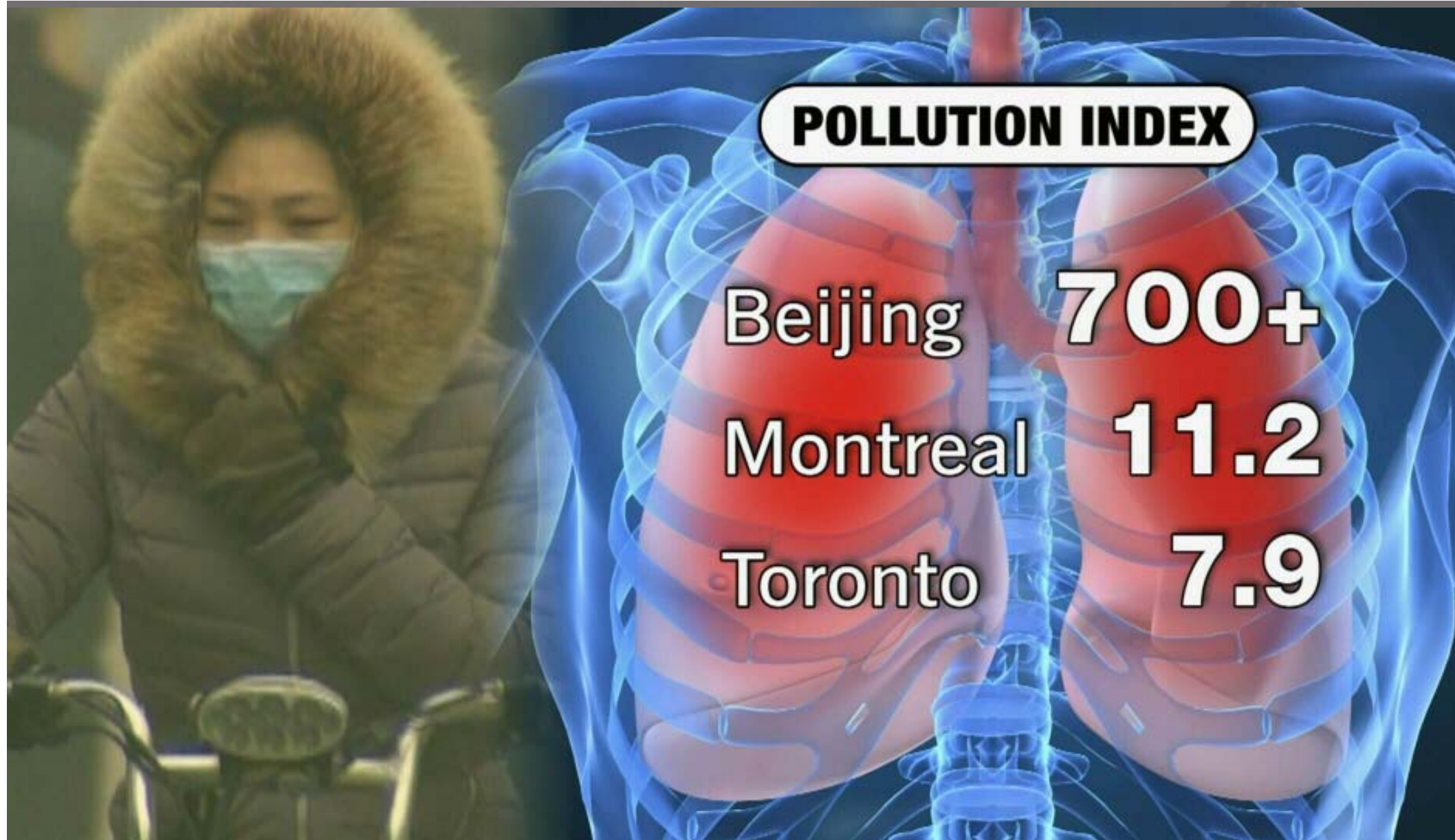
565

«CO₂-Budget» für 2 Grad Erwärmung
(in GtCO₂)

Clean Energy vs. Öl/Kohle

1. Januar 2013 bis 8. April 2016

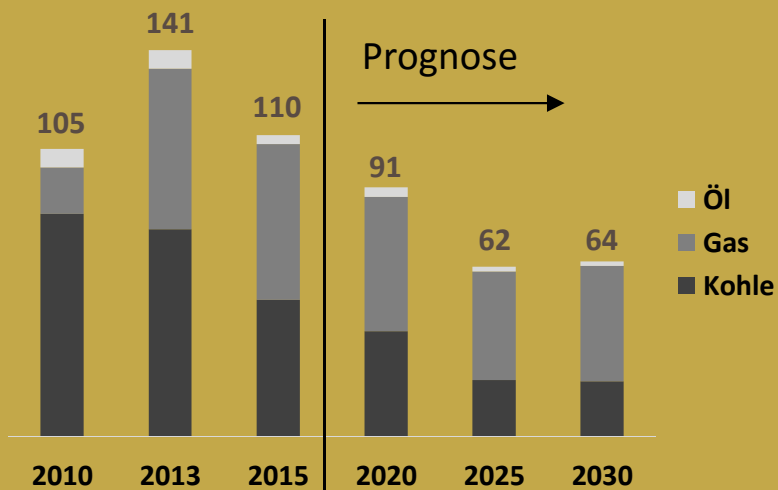




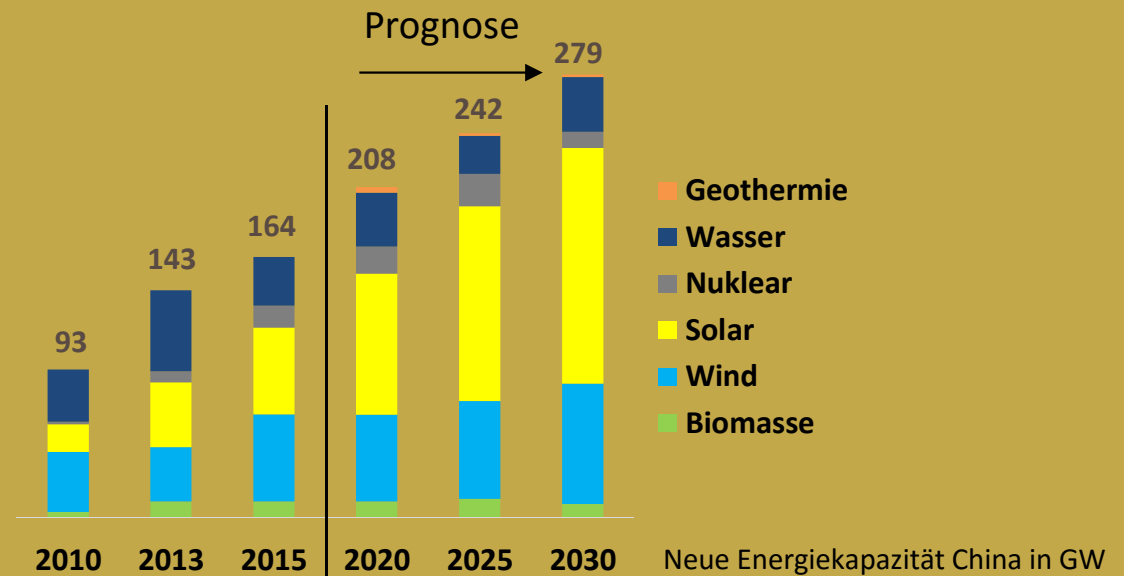
Die Regierungen



Fossile Brennstoffe



Clean Energy



Neue Energiekapazität China in GW

Quelle: BNEF



"We will resolutely declare war against pollution as we declared war against poverty"

Premier Li Keqiang, March 2014

Der Regulator



FINANCIAL TIMES

ft.com/world

September 29, 2015 9:46 pm

Mark Carney warns investors face 'huge' climate change losses

Pilita Clark in London



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US China India EU Africa South America Middle East Asia Pacific

China's largest bank to screen loans for environmental risk

Quelle: Industrial & Commercial Bank of China (ICBC)

Die Unternehmen



The Telegraph

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Unilever plans to double its turnover while halving its environmental impact



THE HUFFINGTON POST

IN ZUSAMMENARBEIT MIT 

Nachhaltigkeitsoffensive: Ikea steht vor einer Revolution - fast alle Produkte sind betroffen

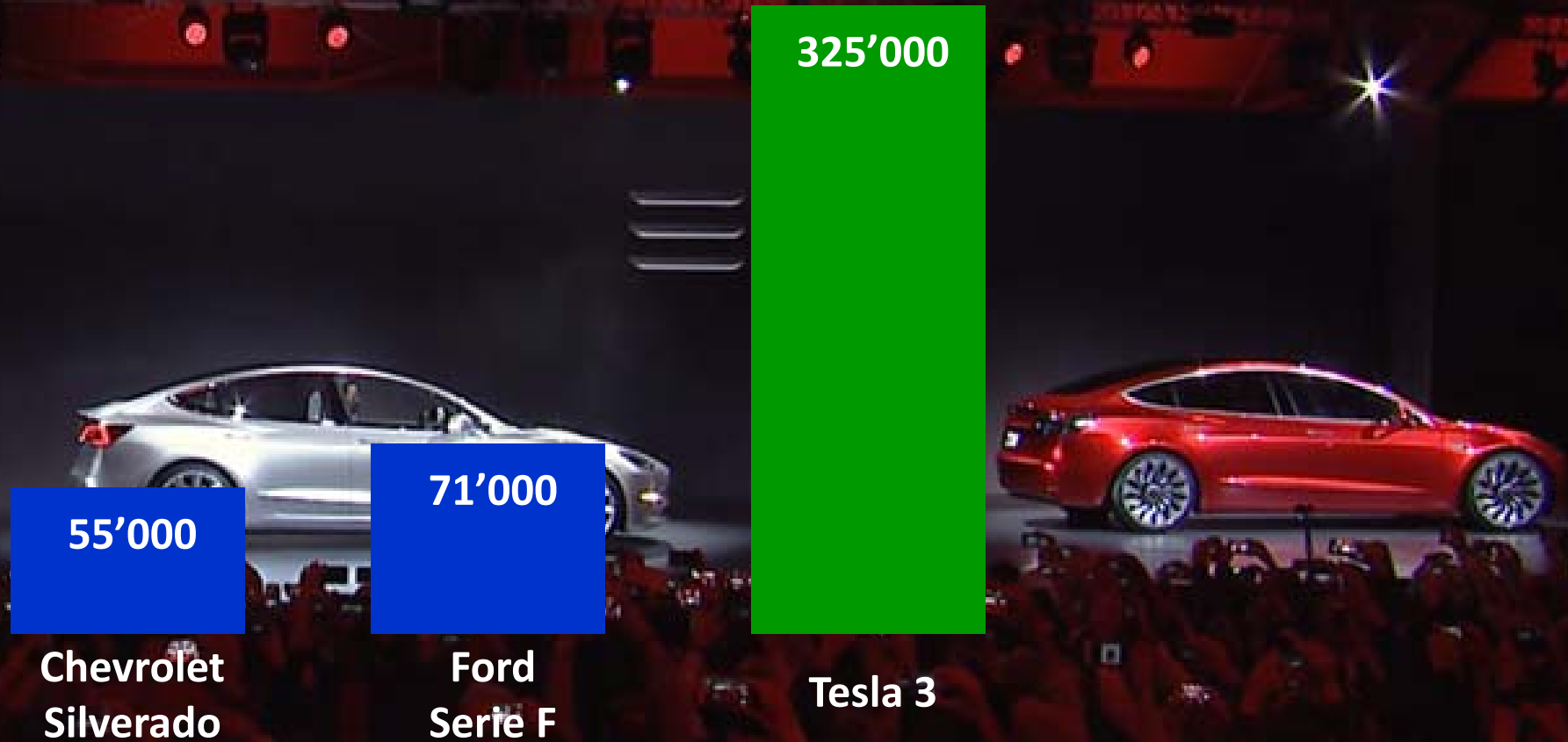


The Huffington Post | von Lea Kosch   

Veröffentlicht: 02/03/2016 17:36 CET | Aktualisiert: 04/03/2016 00:01 CET

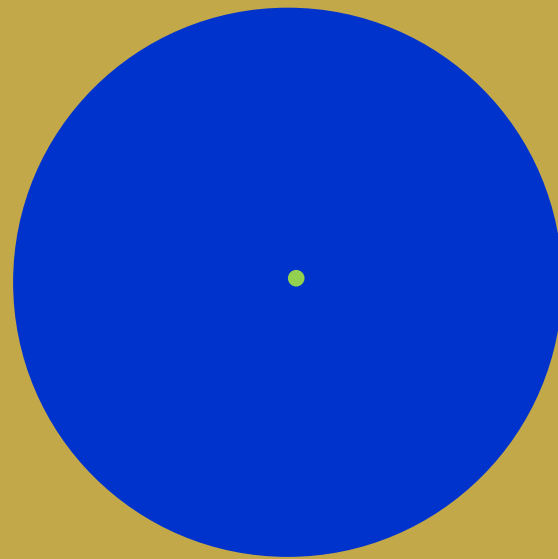
Paradigmenwechsel?

Bestellungseingang nach 1 Monat



Auto- und Elektromobile

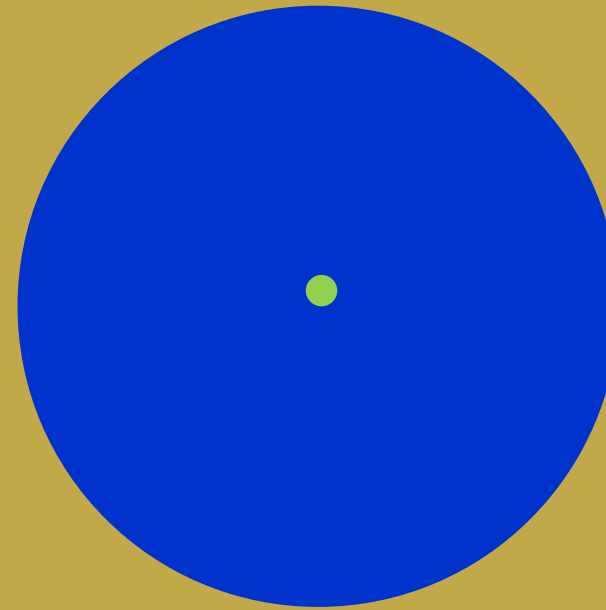
Neuverkaufte Fahrzeuge pro Jahr



Total:
85'000'000

Elektromobile:
206'000
0.2%

2013



Total:
90'000'000

Elektromobile:
550'000
0.6%

2015

Quelle: BNEF



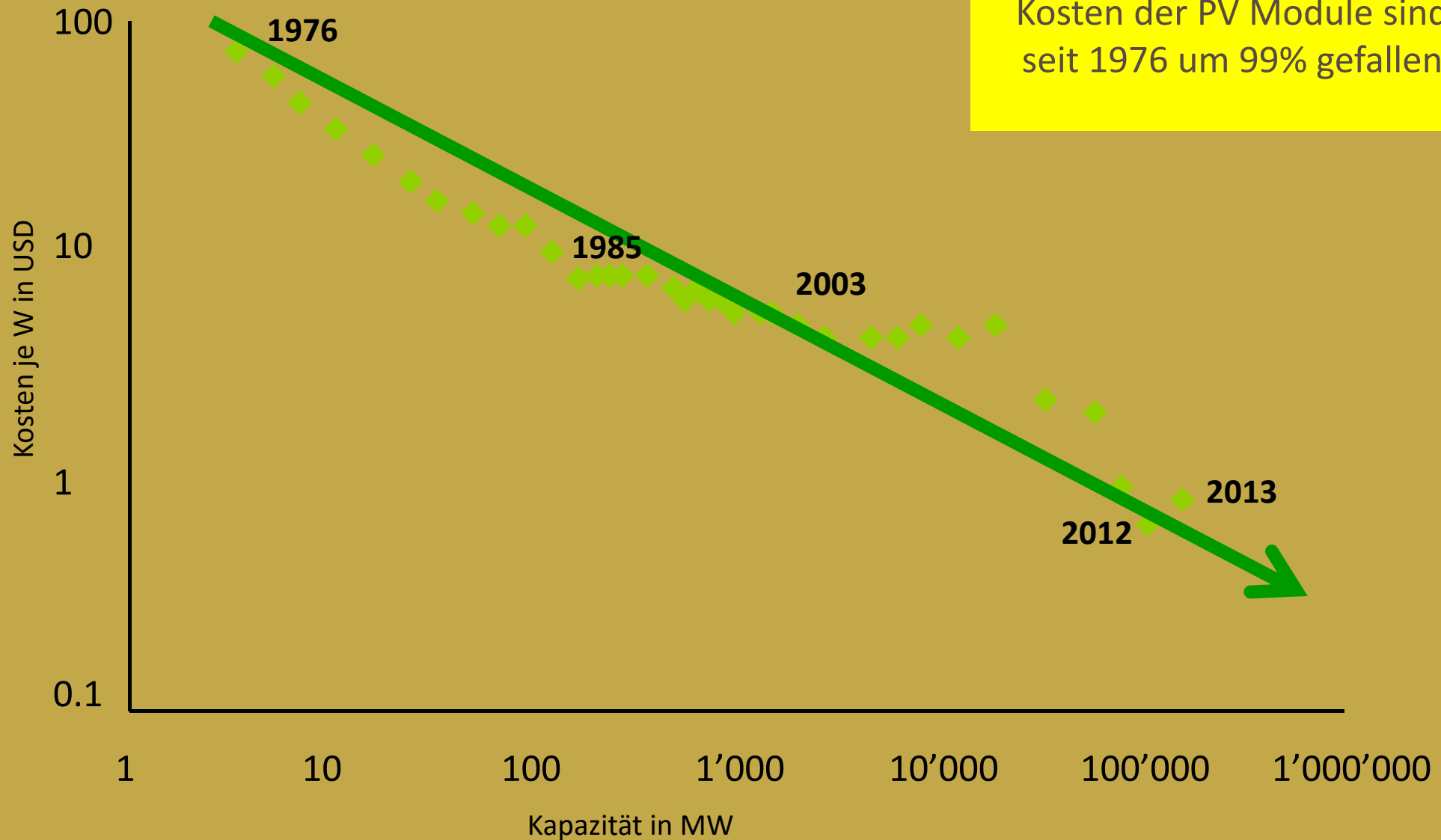
Die Technologie



Kosten PV Module

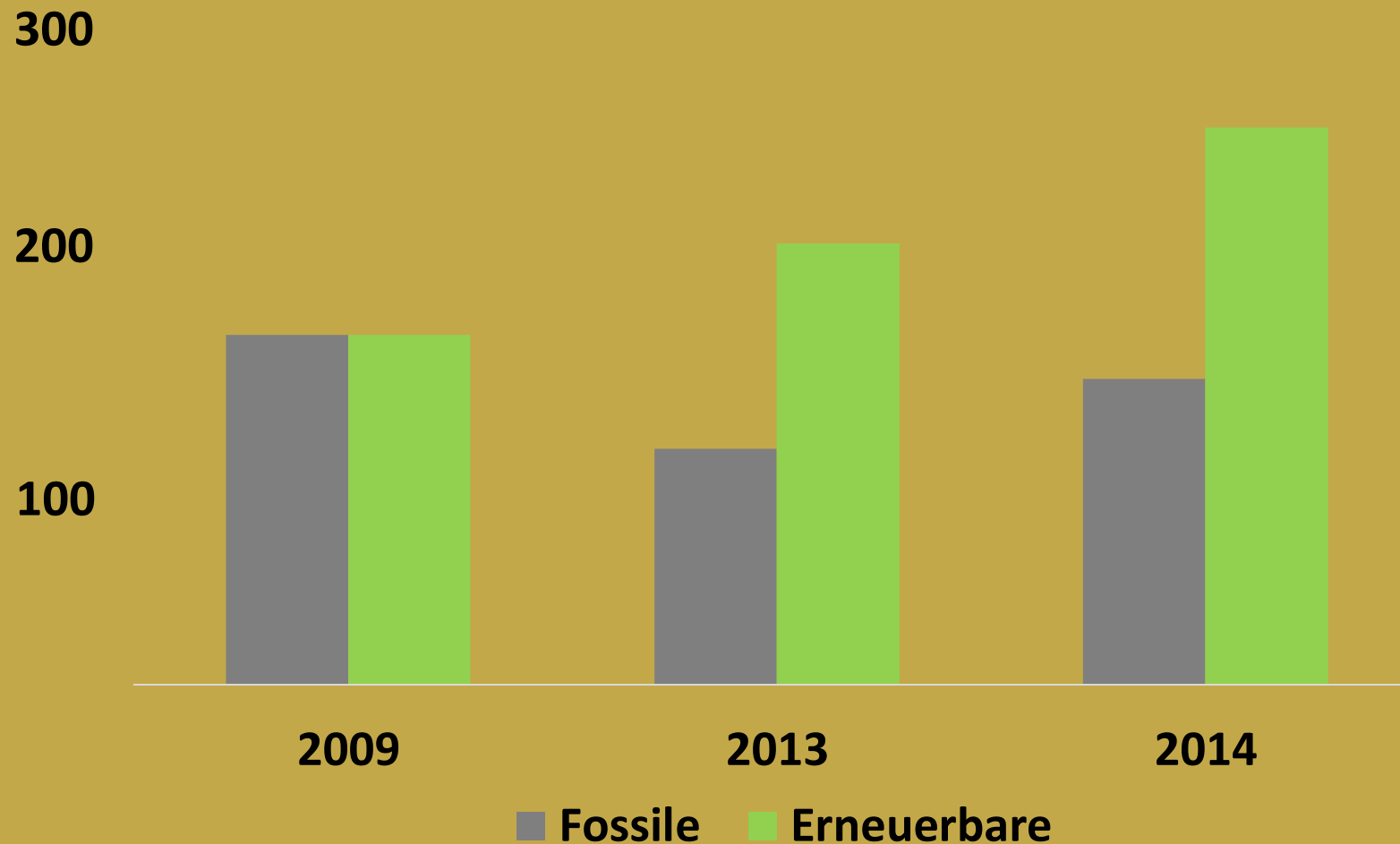


1976 – 2013 (in USD 2013 \$/W)



Investitionen Energie

(weltweit in Mia. USD)

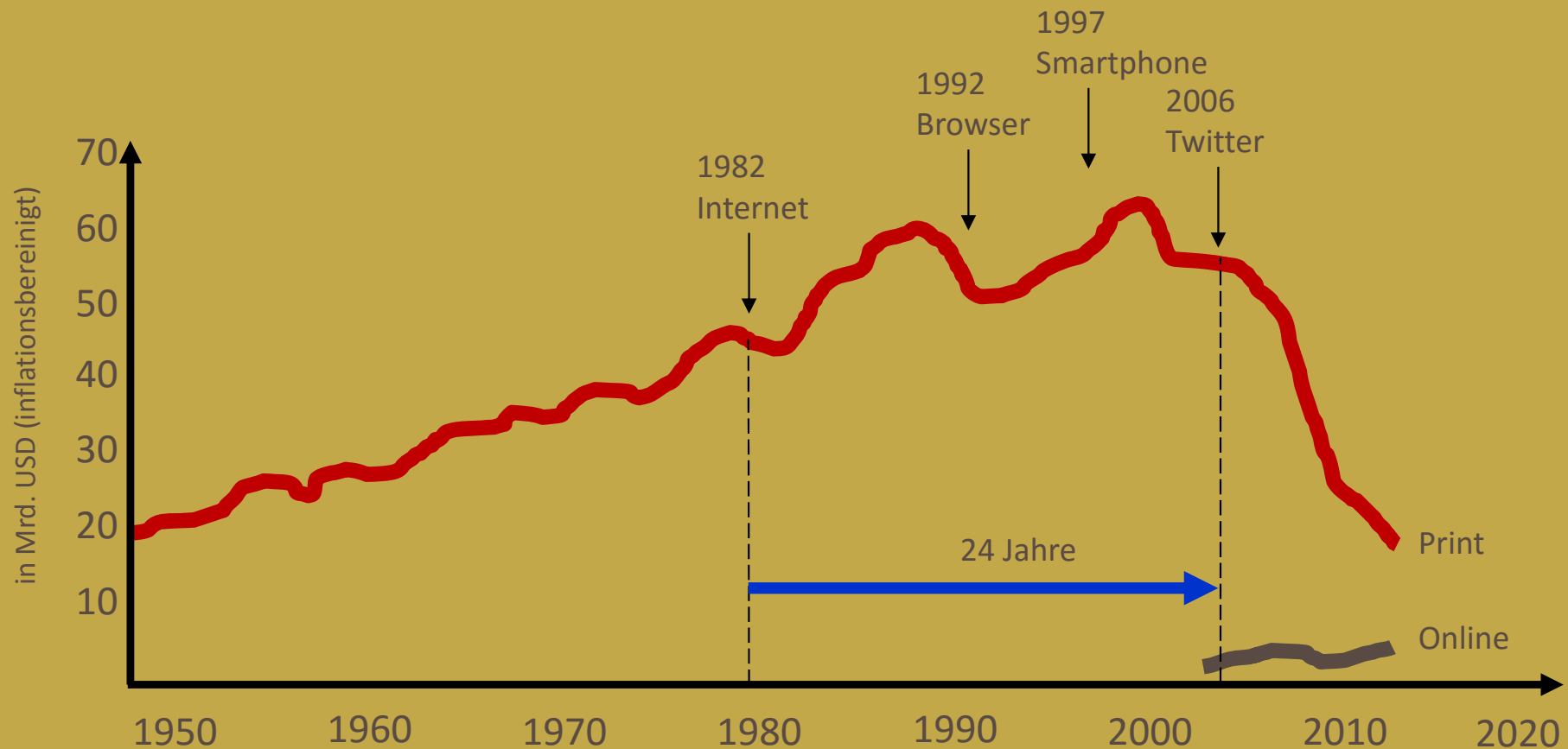


WO IST DER VERSTECKTE LÖWE?



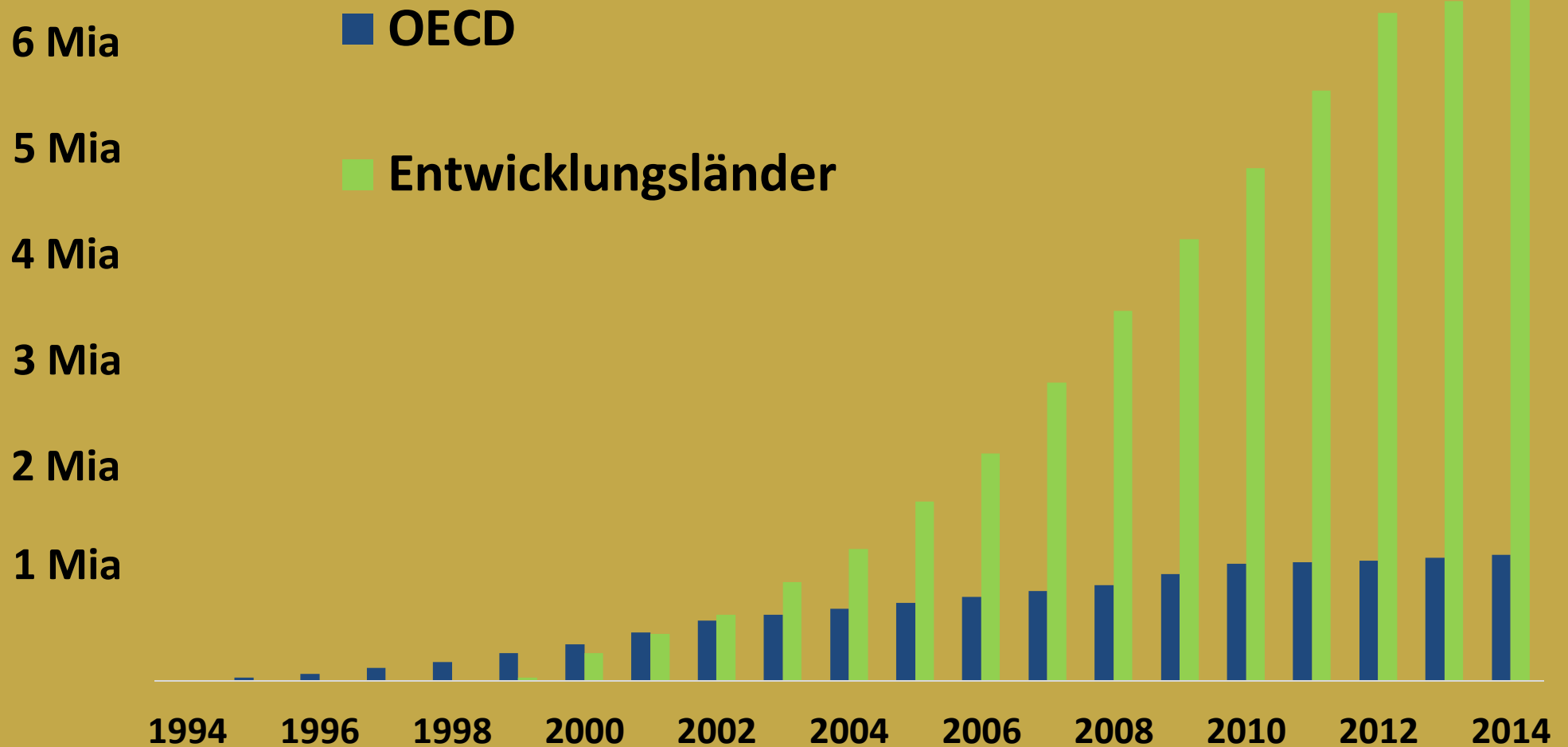
Paradigmenwechsel

Beispiel Werbeeinnahmen US Zeitungsindustrie



Mobiltelefone weltweit

(weltweit in Gigawatt)



Kathmandu, Nepal



Solartechnologie, Afrika



50%

Weltweite
Zunahme der
Energienachfrage
der letzten 25
Jahre

80%

Der weltweiten
Energie wird durch
fossile Brennstoffe
gedeckt

40%

Zunahme der
globalen
Energienachfrage
in den nächsten 20
Jahren

Low Carbon Economy



1 Cloud-based information management

2 Monitoring drone for predictive maintenance

3 Freight shuttle system for high-volume freight containers

6 Urban greenway to encourage walking and cycling

7 Congestion Charging Zone to encourage use of public transport

8 Self-healing road surface

5 Dedicated cycle and pedestrian lanes

11 Recycled material roadway

12 Photo-luminising road markings that glow in the dark

10 Vehicle-to-vehicle communication

13 Space-saving underground car parks

9 Cycle superhighway separated from traffic

17 Integrated bike racks on all buses

14 Fully synchronised traffic signals

15 Wireless induction charging for electric vehicles

16 Solar roadways for power generation

18 Transparent LCD information displays on buses

19 Smart fare collection for ticketless travel

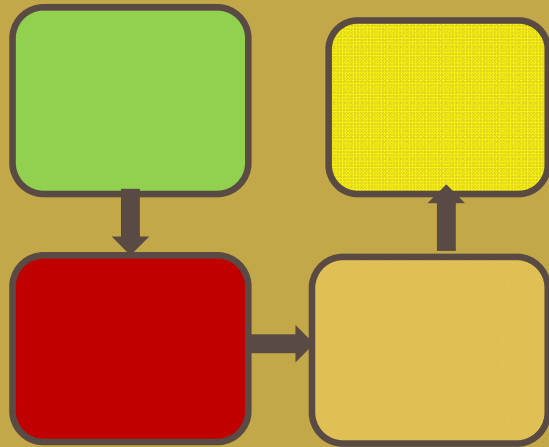
22 Underground roadway for non-autonomous vehicles

20 Intelligent pedestrian crossing

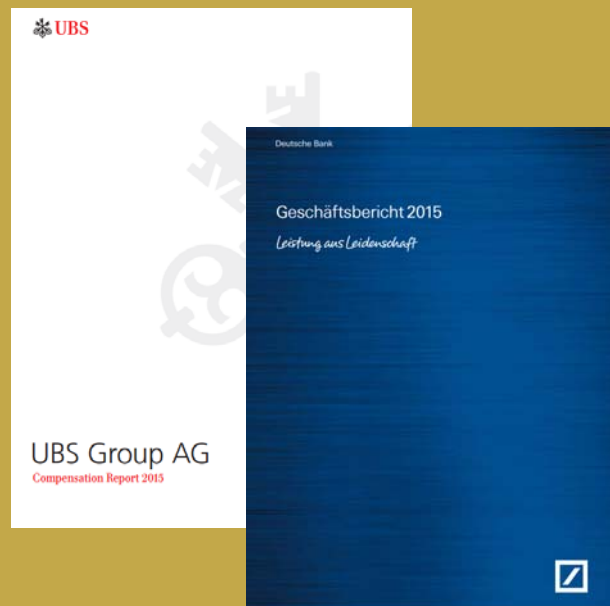
21 Driverless vehicle to increase safety and relieve congestion

Quelle: ARUP London

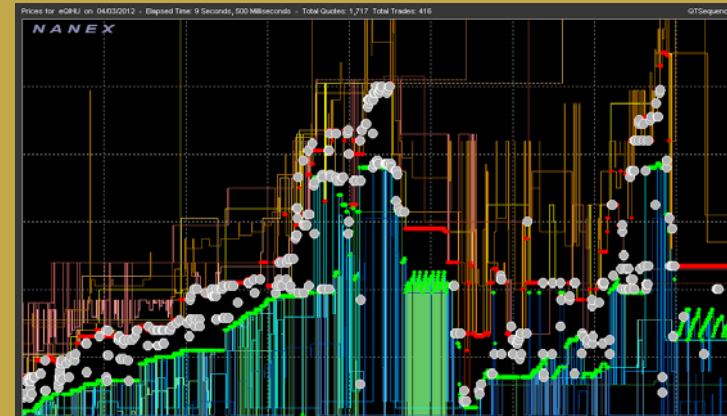
...und der Finanzmarkt?



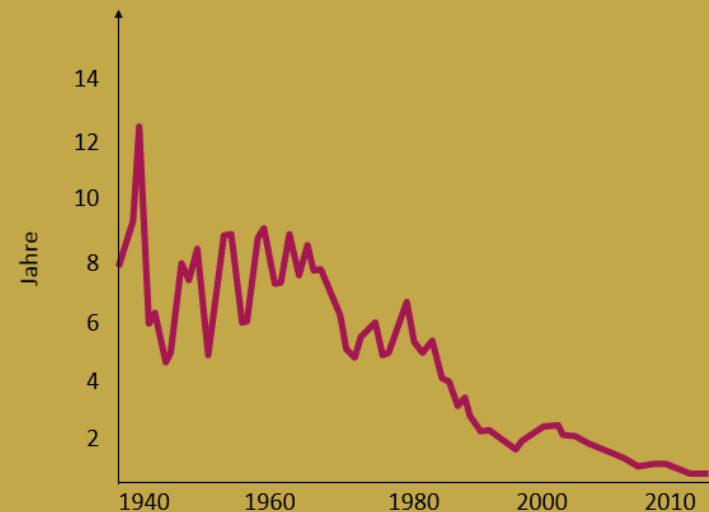
Transparenz



Technologie



Kurzfristigkeit

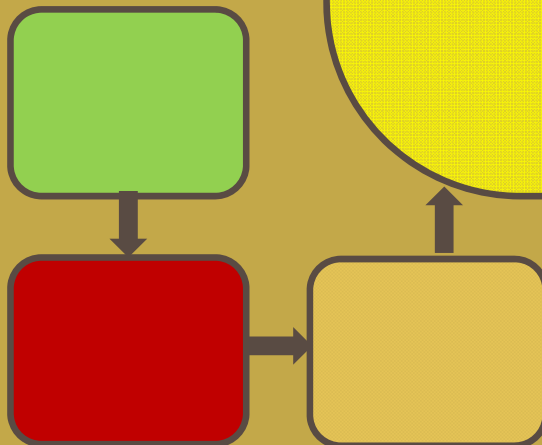


Engagement



Innovation

Investments



Engagement: Aktive Mitsprache



Norwegischer Staatsfonds 2014

- Weltweit grösster Staatsfonds
- 800 Mia. Vermögen
- 2'641 Investoren-Treffen mit Firmen zum Thema Umwelt, Gesellschaft, Governance
- 623 Interventionen

Engagement: Aktive Mitsprache



PGGM backs shareholder proposal to hold Franklin Templeton accountable on climate change

Motion from SRI investor Zevin gained 4.5% of the vote at fund firm's AGM

by Jan Wagner | February 19th, 2016

Innovation: Transparenz

Mein Geld kann ernähren

Investments in nachhaltige Landwirtschaft und gesunde Ernährung haben einen positiven Footprint.

Mein Geld kann zerstören

Mein Geld kann heilen

Investments in neue Gesundheitsmodelle und bezahlbare Behandlungen haben einen positiven Footprint.

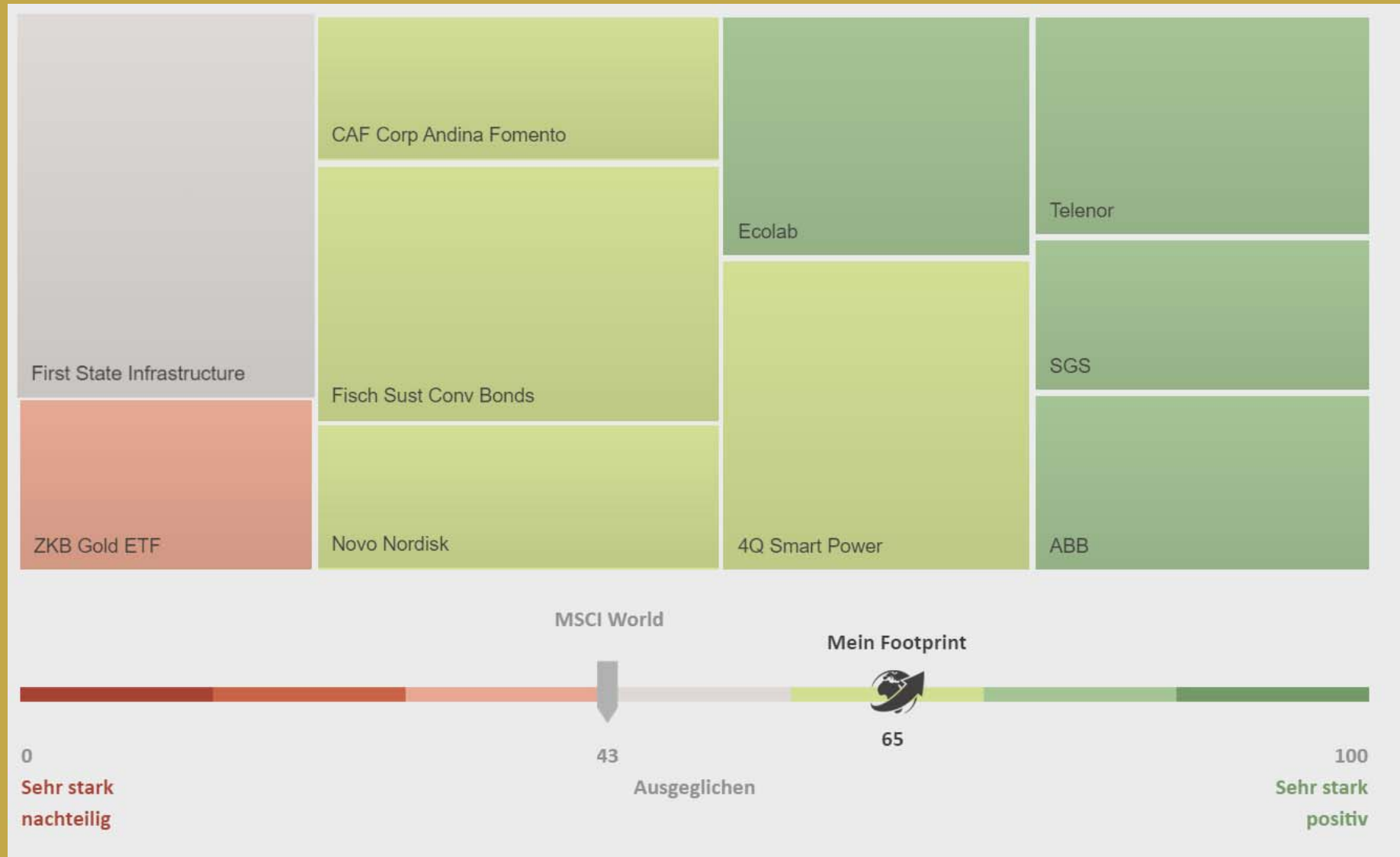
Mein Geld kann ausbeuten

Investments in Unternehmen mit schlechten Arbeitsbedingungen haben einen negativen Footprint.

Mein Geld kann erfinden

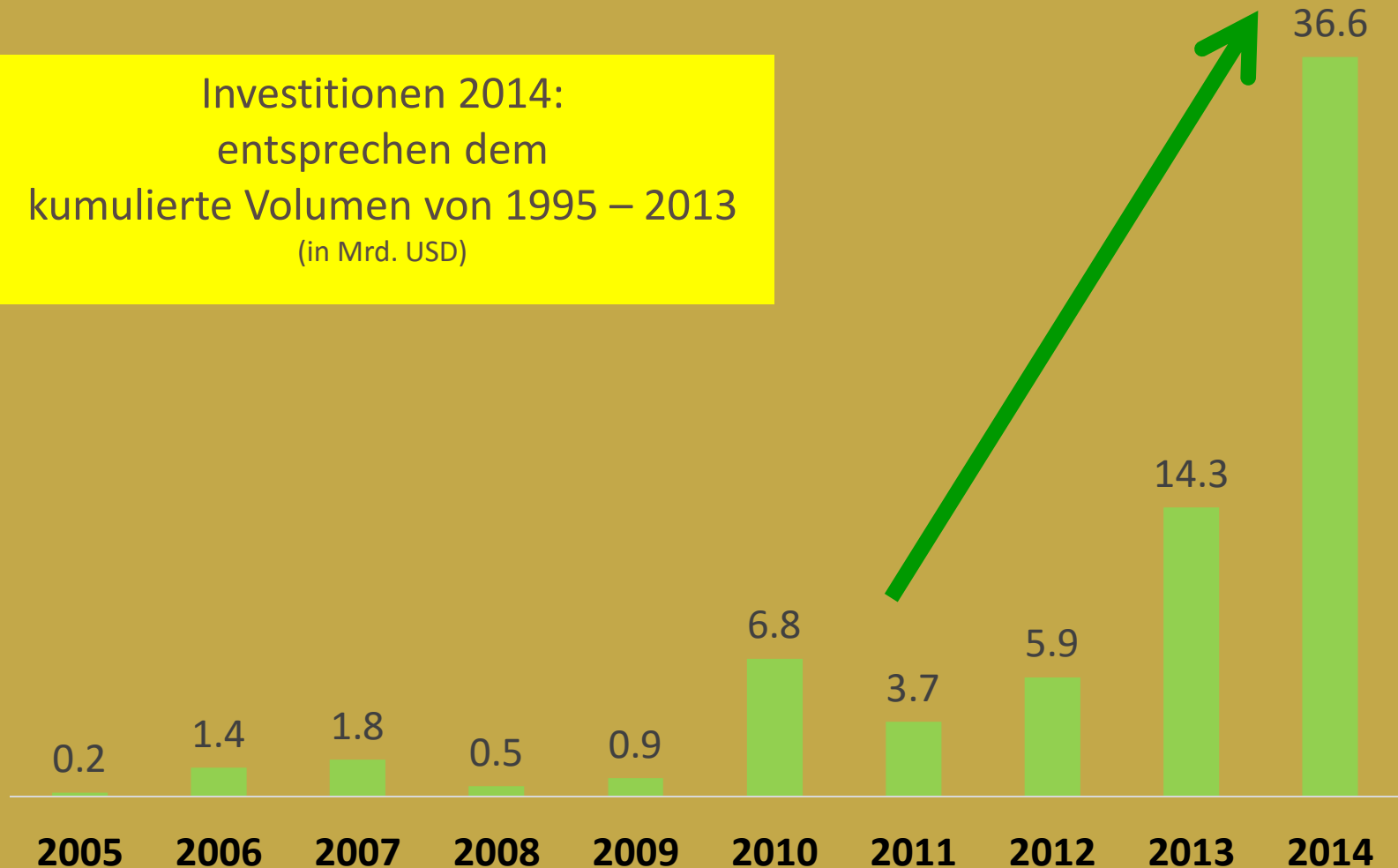
Investments in eine zukunftsfähige Stromversorgung haben einen positiven Footprint.

Innovation: Globalance Footprint



Investments: Green Bonds

Investitionen 2014:
entsprechen dem
kumulierte Volumen von 1995 – 2013
(in Mrd. USD)



Investments: Green Bonds

«We've poured billions and billions of dollars into renewable.

And we're going to keep going that as far as the eye can see»

Warren Buffet



Klimawandel: Paradigmenwechsel mit Herausforderungen und Chancen



Paradigmenwechsel

1. Klimawandel = grösste Herausforderung für die nächsten(n) Generation(en)
2. Tipping Point erreicht
3. Grosse, strukturelle Veränderungen
Grosse Chancen