



Megatrender for byene i fremtiden



**Bykonferanse 16. november
2015**

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Instituttet for Fremtidsforskning





Instituttet for Fremtidsforskning: www.iff.dk

”At styrke
beslutningsgrundlaget
for virksomheder og
organisationer ved at
skabe bevidsthed om
fremtiden og synliggøre
dens betydning i nuet.”



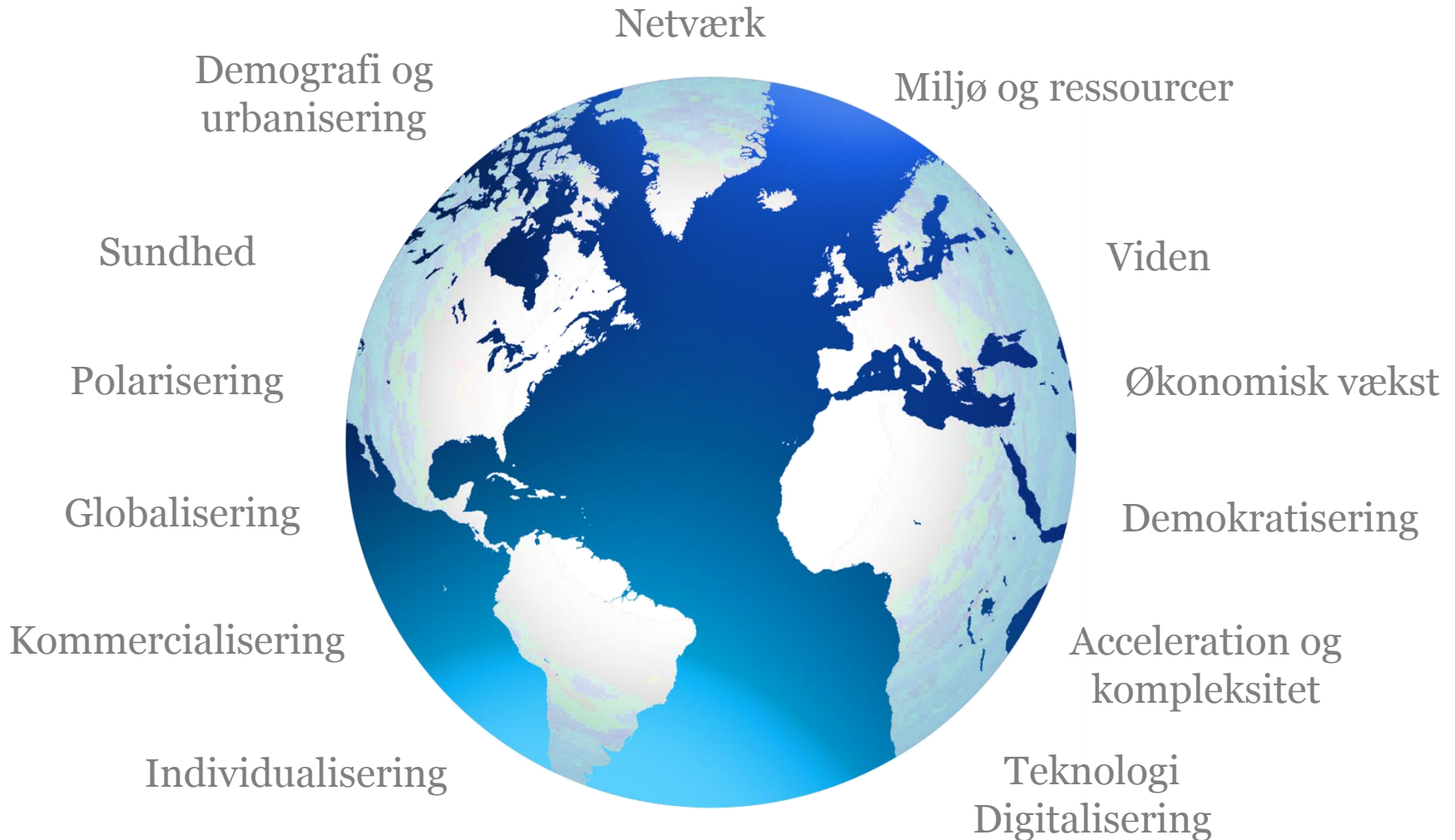


Se langt ud i fremtiden



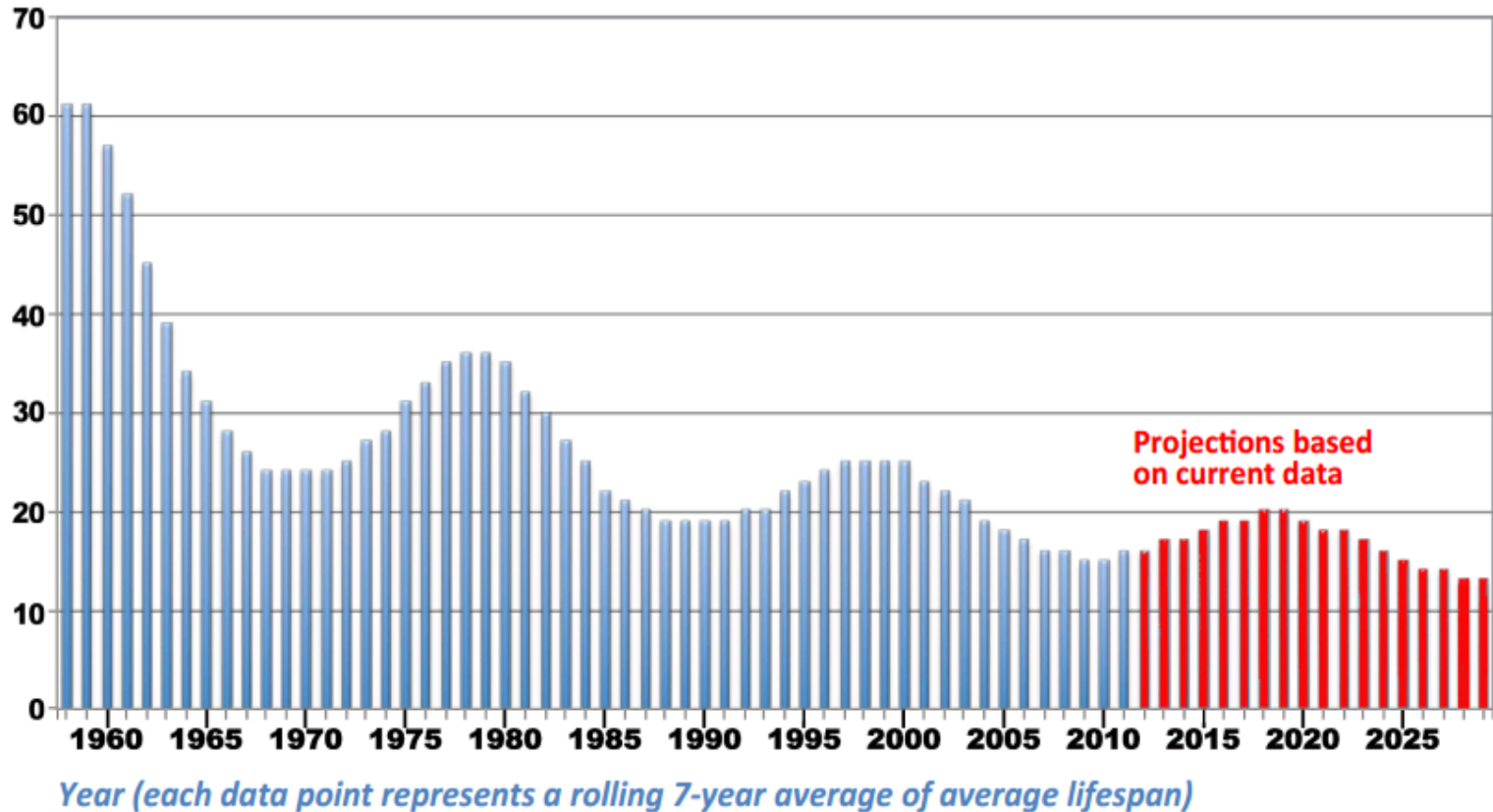


Megatrends





Gennemsnitlig levetid for en virksomhed på S&P 500 Index (år)



DATA: INNOSIGHT/Richard N. Foster/Standard & Poor's

Kilde: www.innosight.com

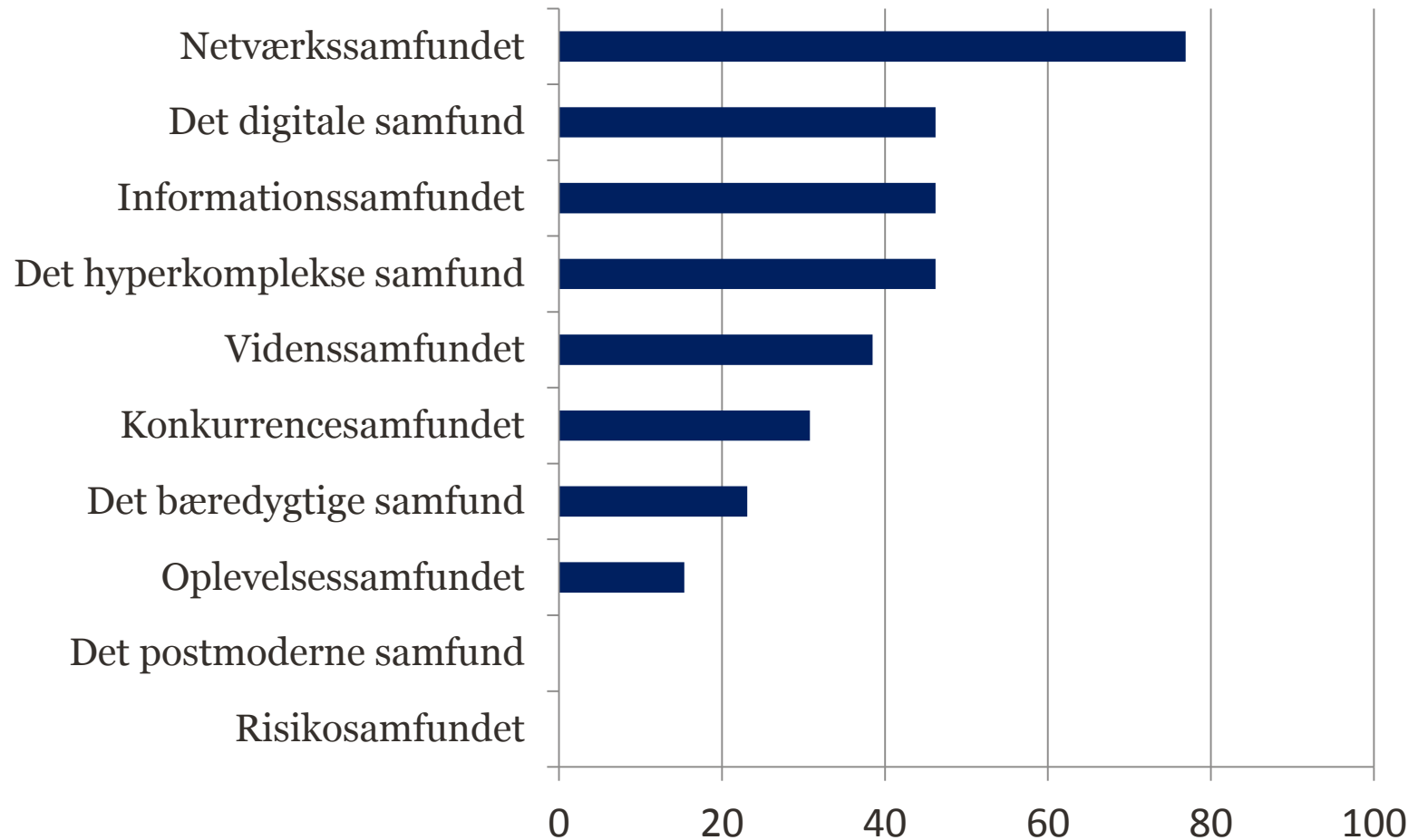


Google 1998

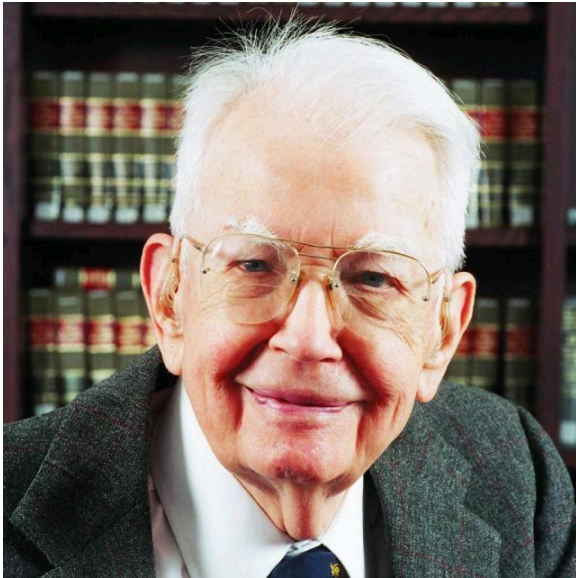




Hvilke(t) samfund går vi samlet set i retning af de næste 2-5 år?



Virksomheder eksisterer som følge af transaktionsomkostninger



Ronald Coase

1910-2013

Nobelprismodtager.

Bla. kendt for "The Theory of the Firm" fra 1937.

Industrisamfundet

Transaktionsomkostninger 1937

- Søge- og informationsomkostninger
- Forhandlingsomkostninger
- Håndhævelsesomkostninger

Netværkssamfundet

Transaktionsomkostninger 2037 ?

- ~~Søge- og informationsomkostninger~~
- ~~Forhandlingsomkostninger~~
- ~~Håndhævelsesomkostninger~~



NETVÆRK



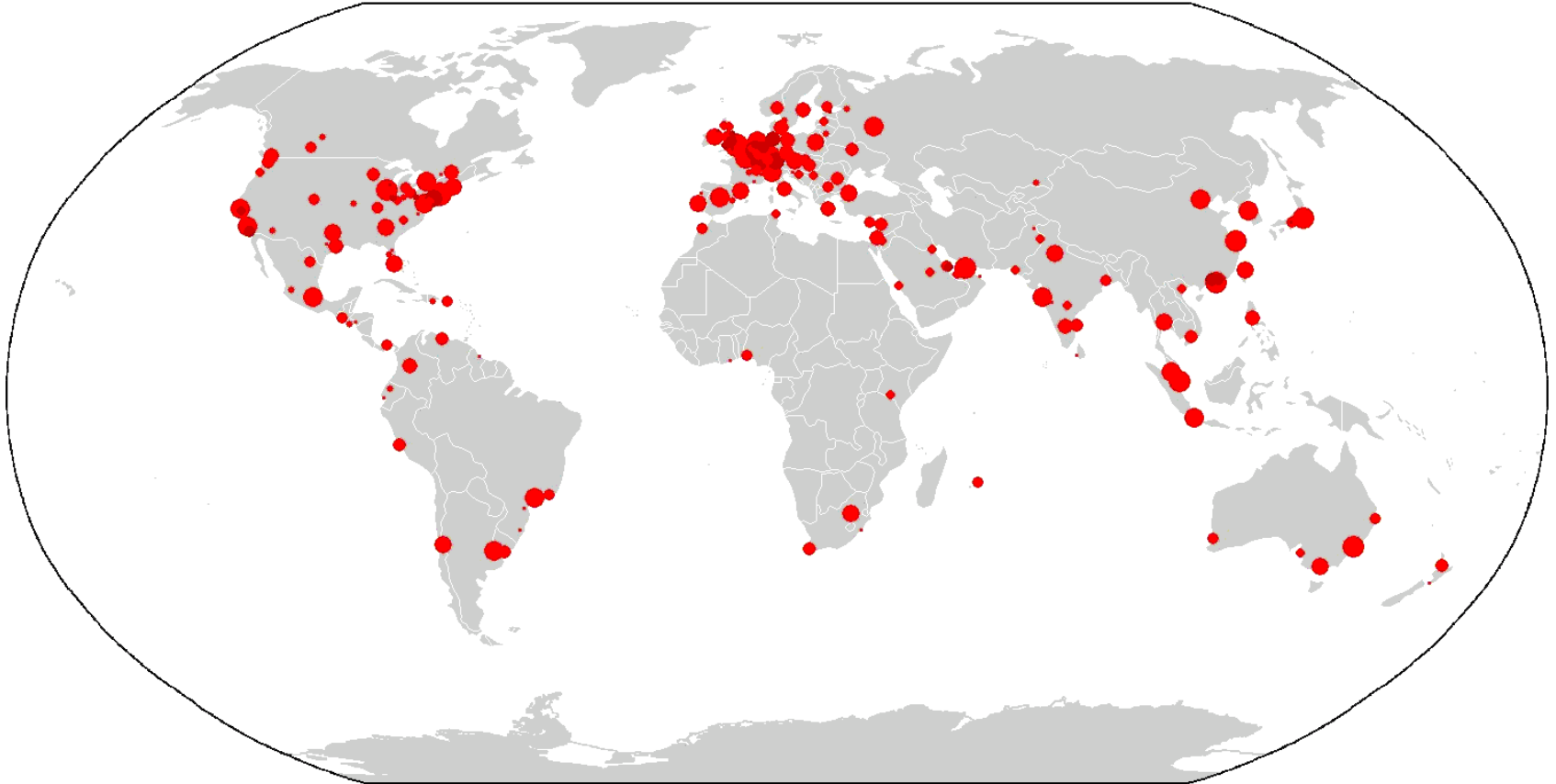
Nordmænd: Facebook-venner



Kilde: Facebookstories.com



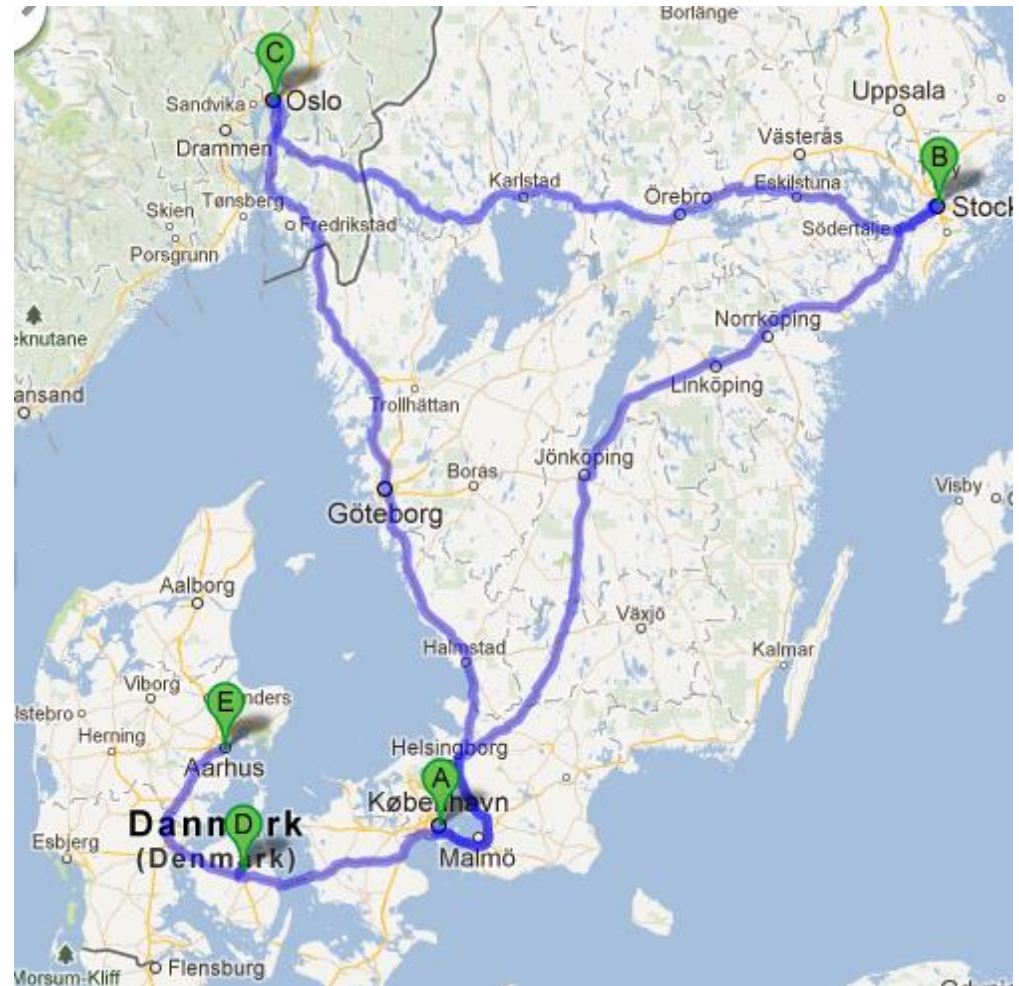
Global cities





København H – Oslo S < 2 timer

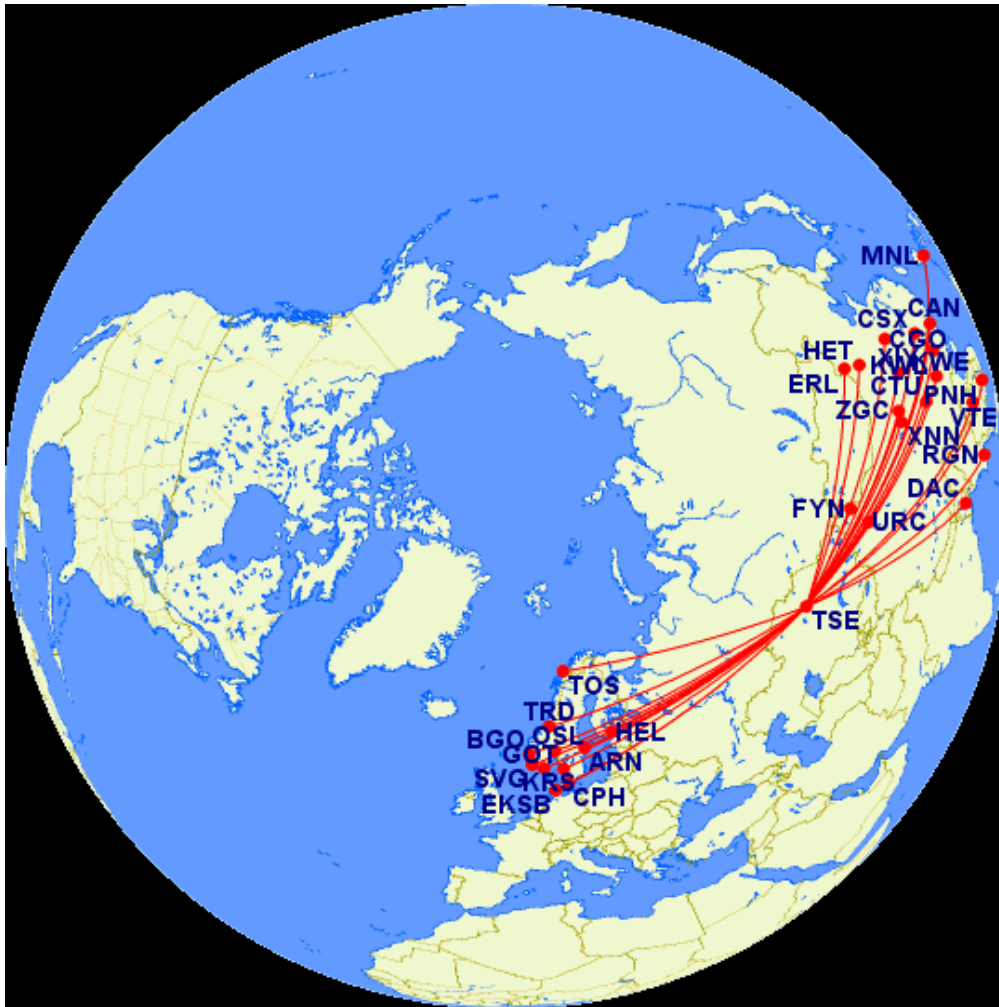
- Ca. 2000 km. totalt

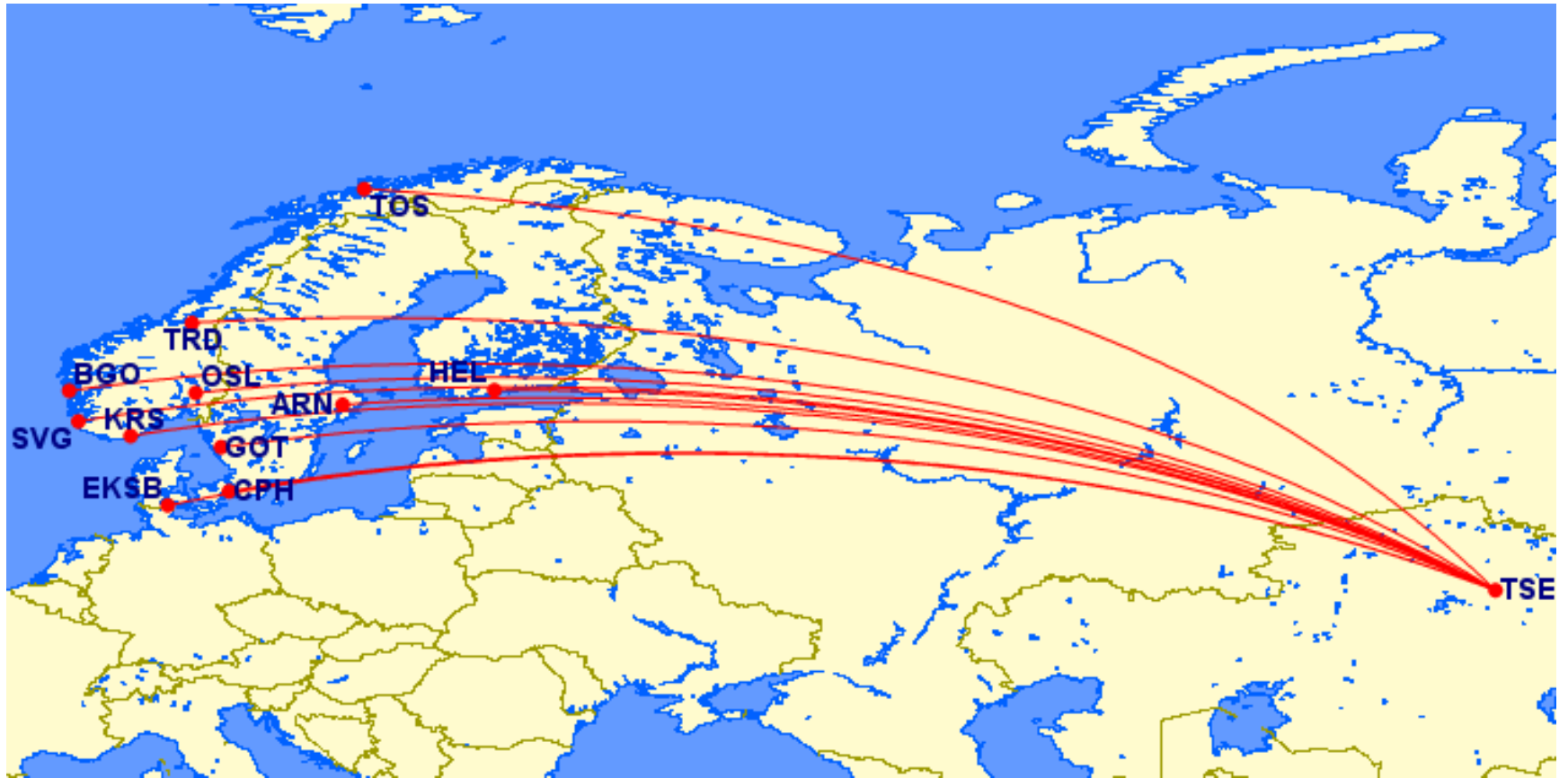




Fx Tromsø-Manila

1 stop, 10 timer,



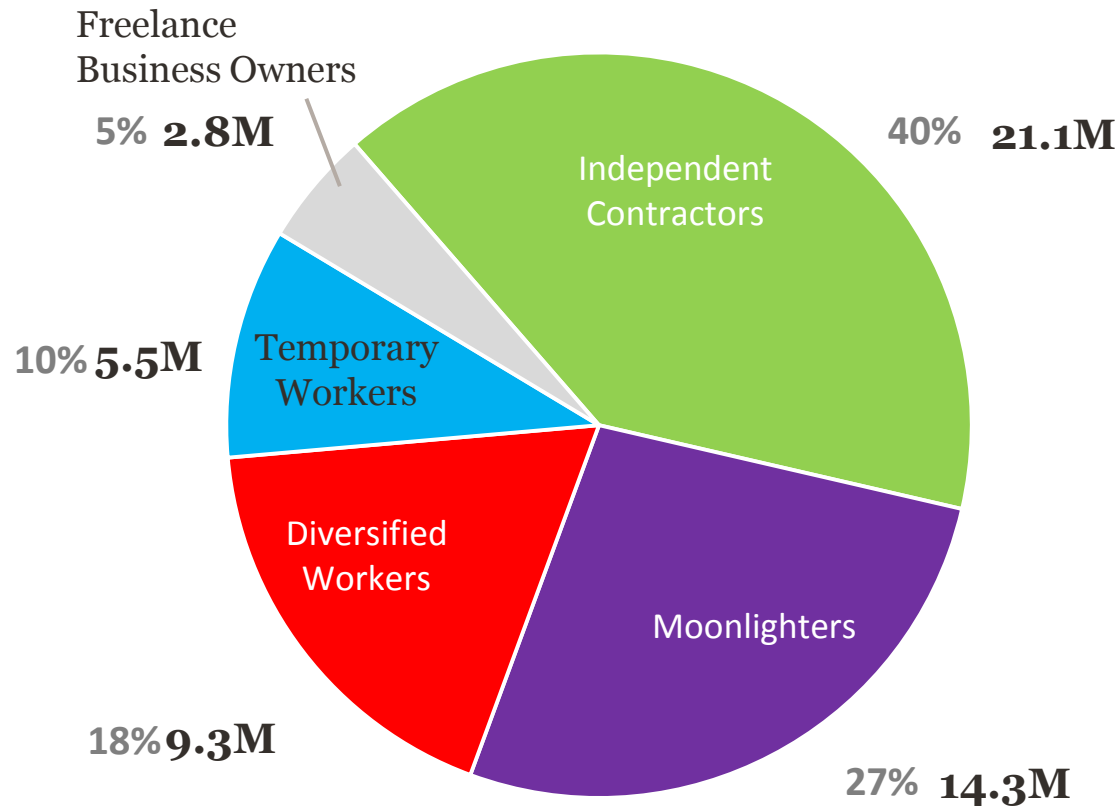




IVÆRK OG FREELANCE



The freelance workforce: 5 freelancer segments





Hvor udsat for computerisering er forskellige jobs?

Mest

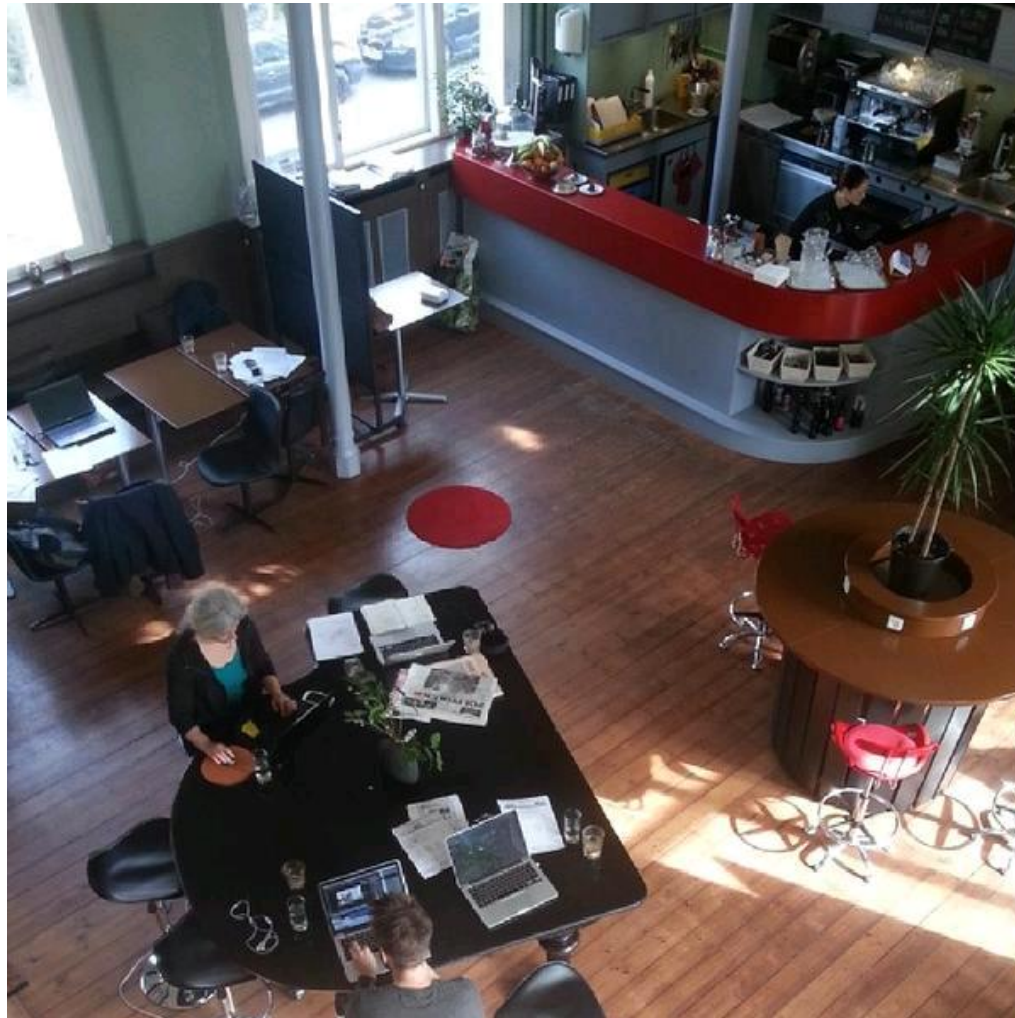
1. Telemarketers
2. Title Examiners, Abstractors, and Searchers
3. Sewers, Hand
4. Mathematical Technicians
5. Insurance Underwriters
6. Watch Repairers
7. Cargo and Freight Agents
8. Tax Preparers
9. Photographic Process Workers and Processing Machine Operators
10. New Accounts Clerks

Mindst

1. Recreational Therapists
2. FirstLine Supervisors of Mechanics, Installers, and Repairers
3. Emergency Management Directors
4. Mental Health and Substance Abuse Social Workers
5. Audiologists
6. Occupational Therapists
7. Orthotists and Prosthetists
8. Healthcare Social Workers
9. Oral and Maxillofacial Surgeons
10. FirstLine Supervisors of Fire Fighting and Prevention Workers

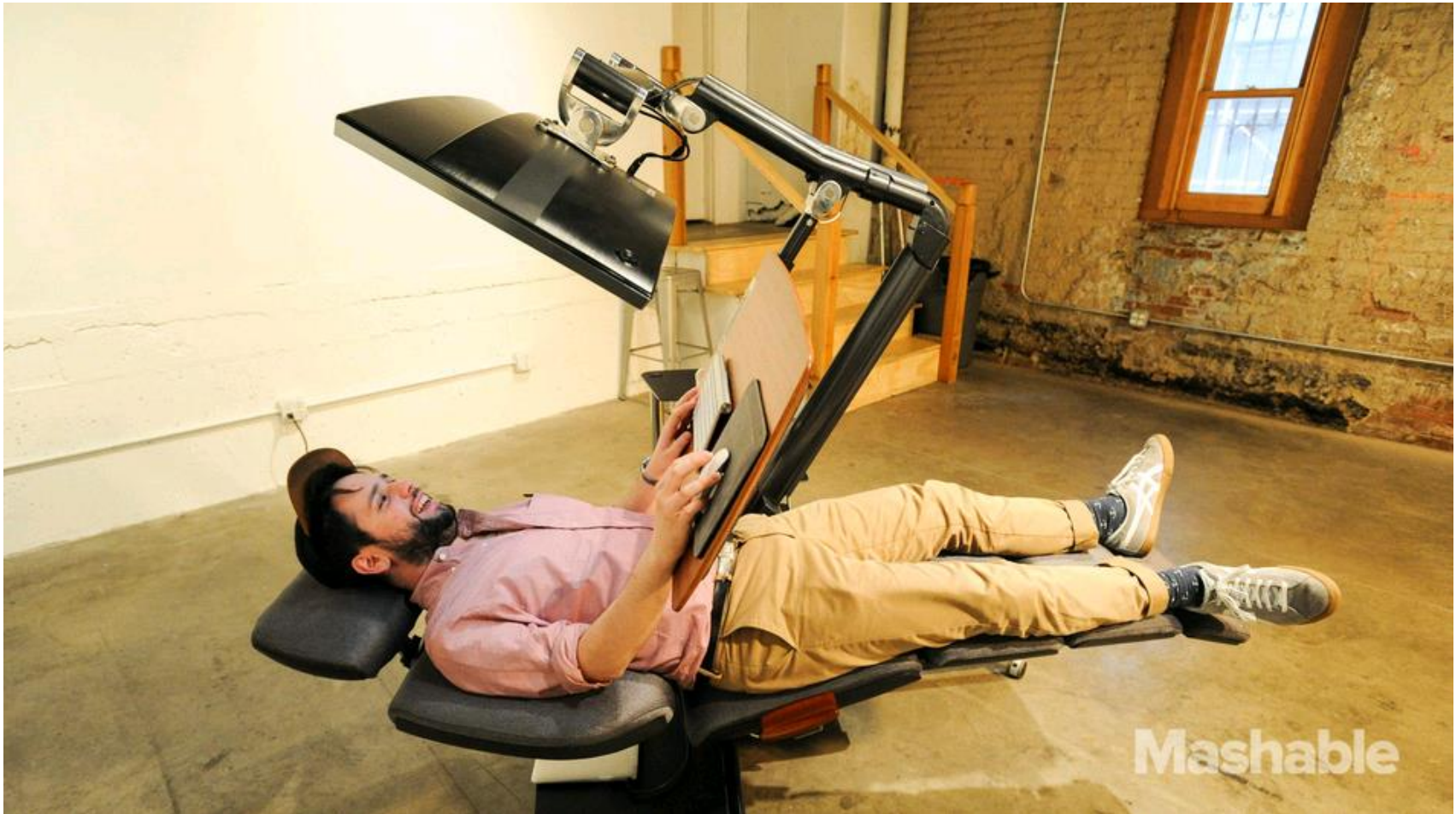


La Oficina, Frederiksberg, Danmark





Meget magelig freelancer



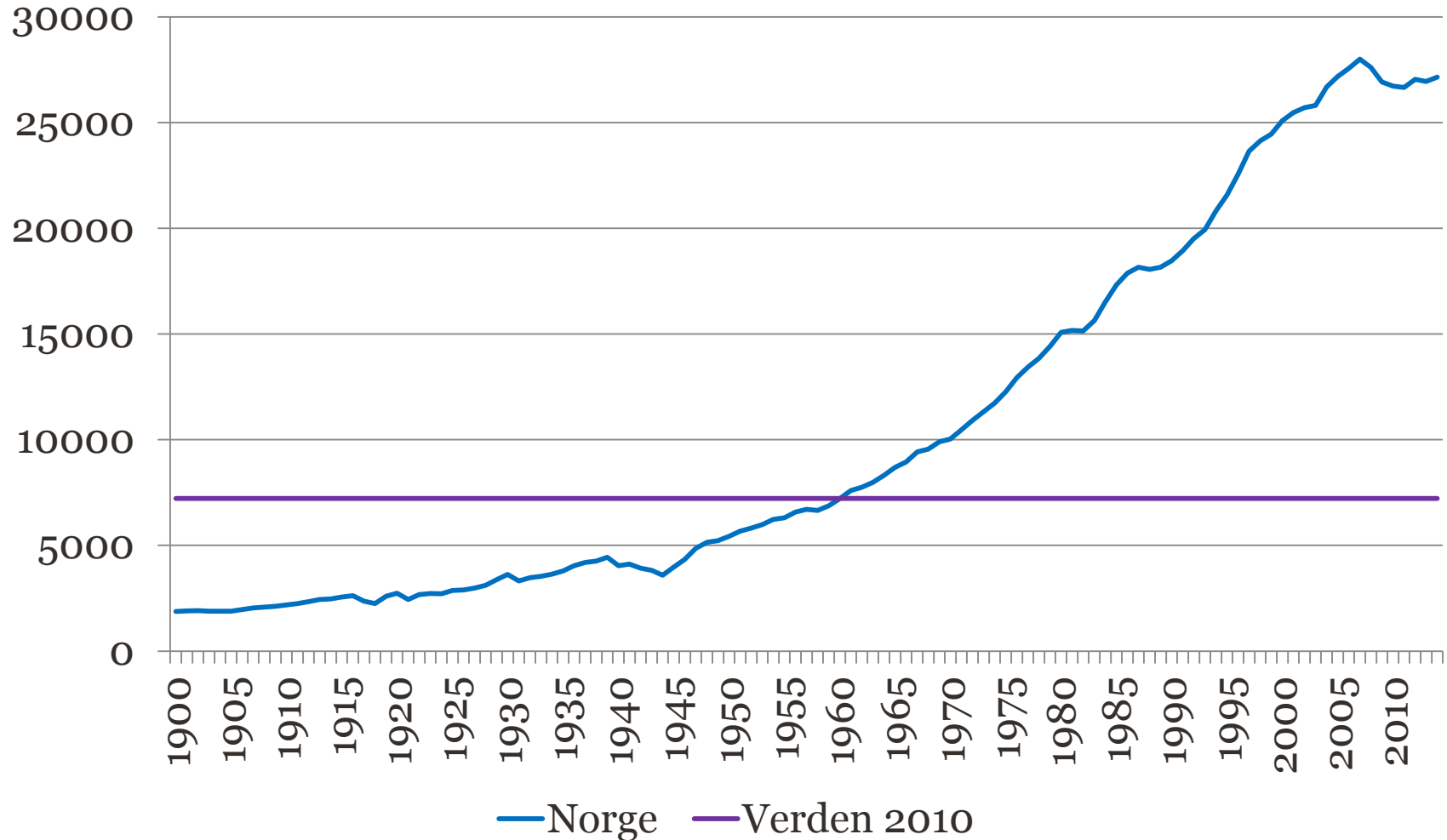


MEGA



Verden er som Norge i 1960

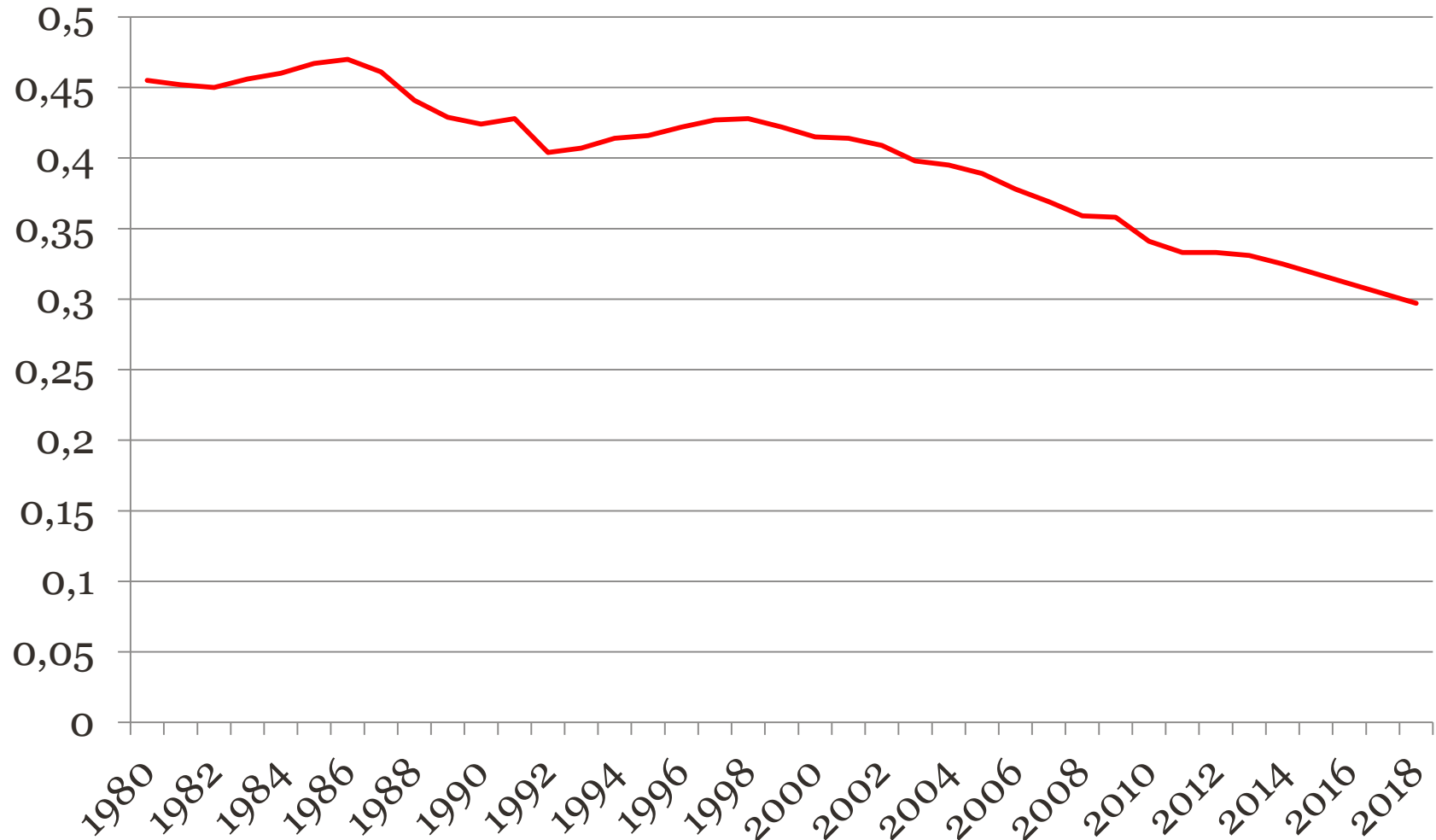
BNP pr. indbygger. Faste Priser.



Kilde: Angus Maddison og IMF



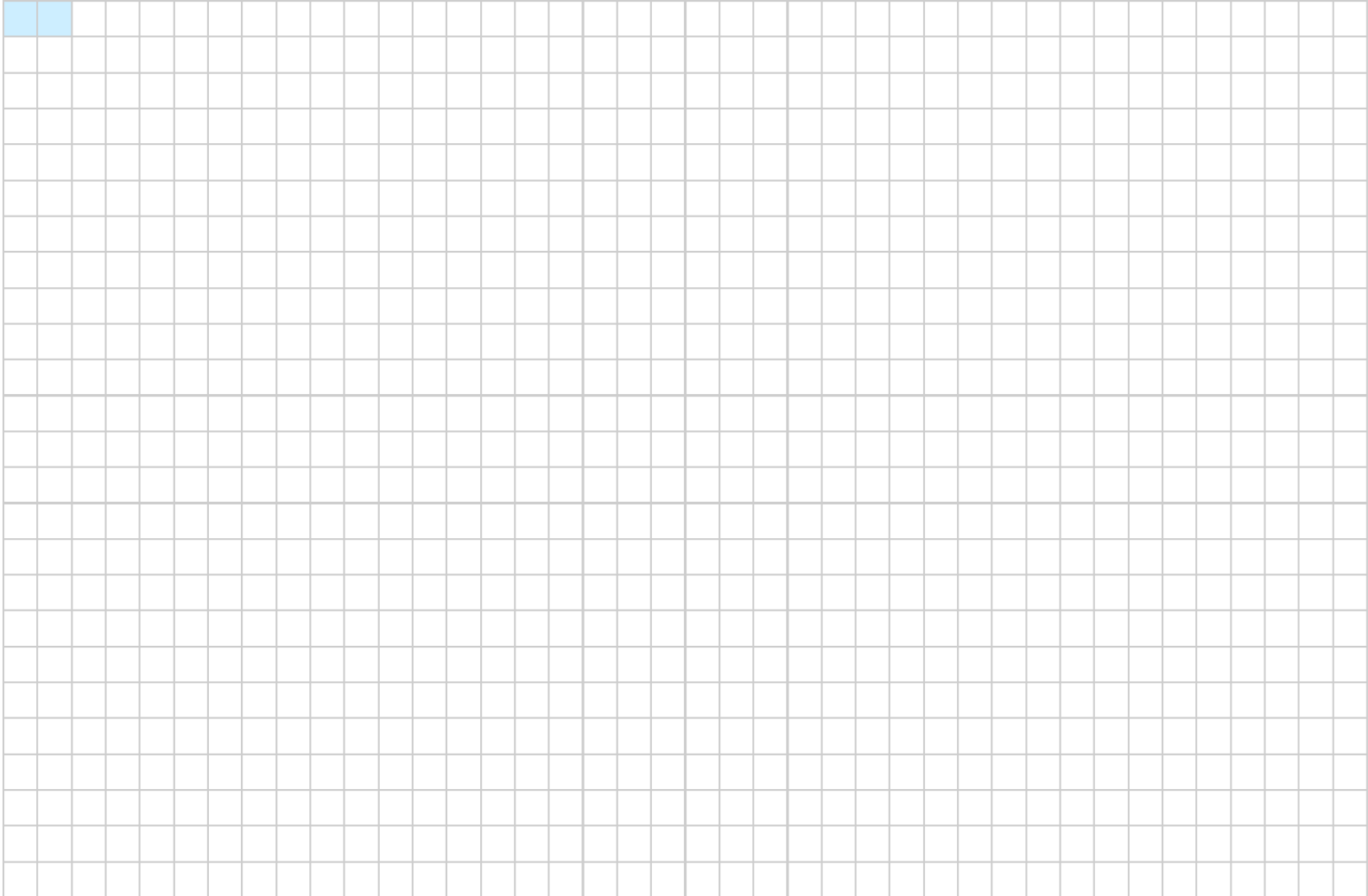
Andel af globalt BNP målt i købekraft. Norge. Procent.



Kilde: IMF

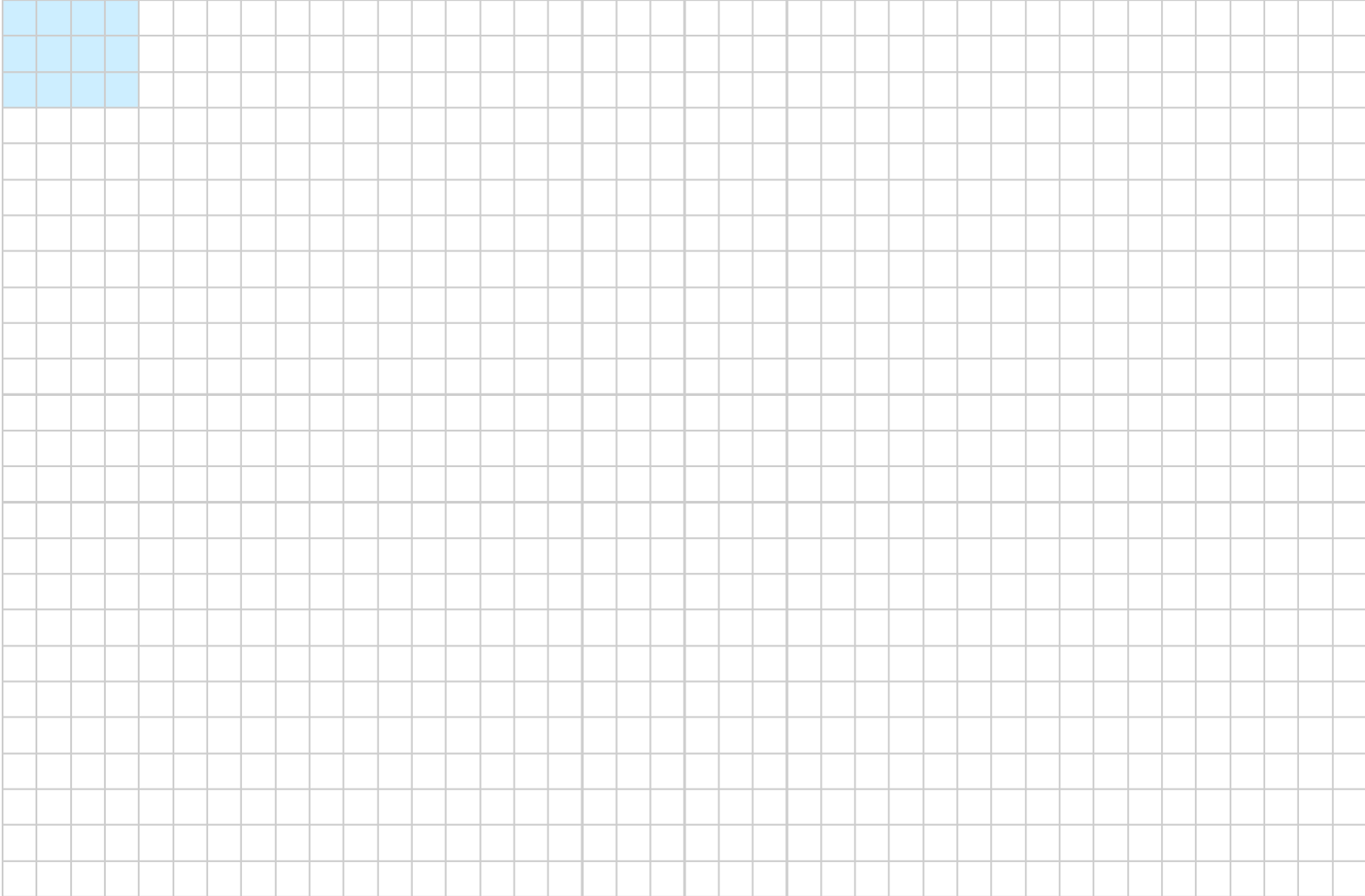


Norge i Verden





Norden i Verden





Globalisering overallt



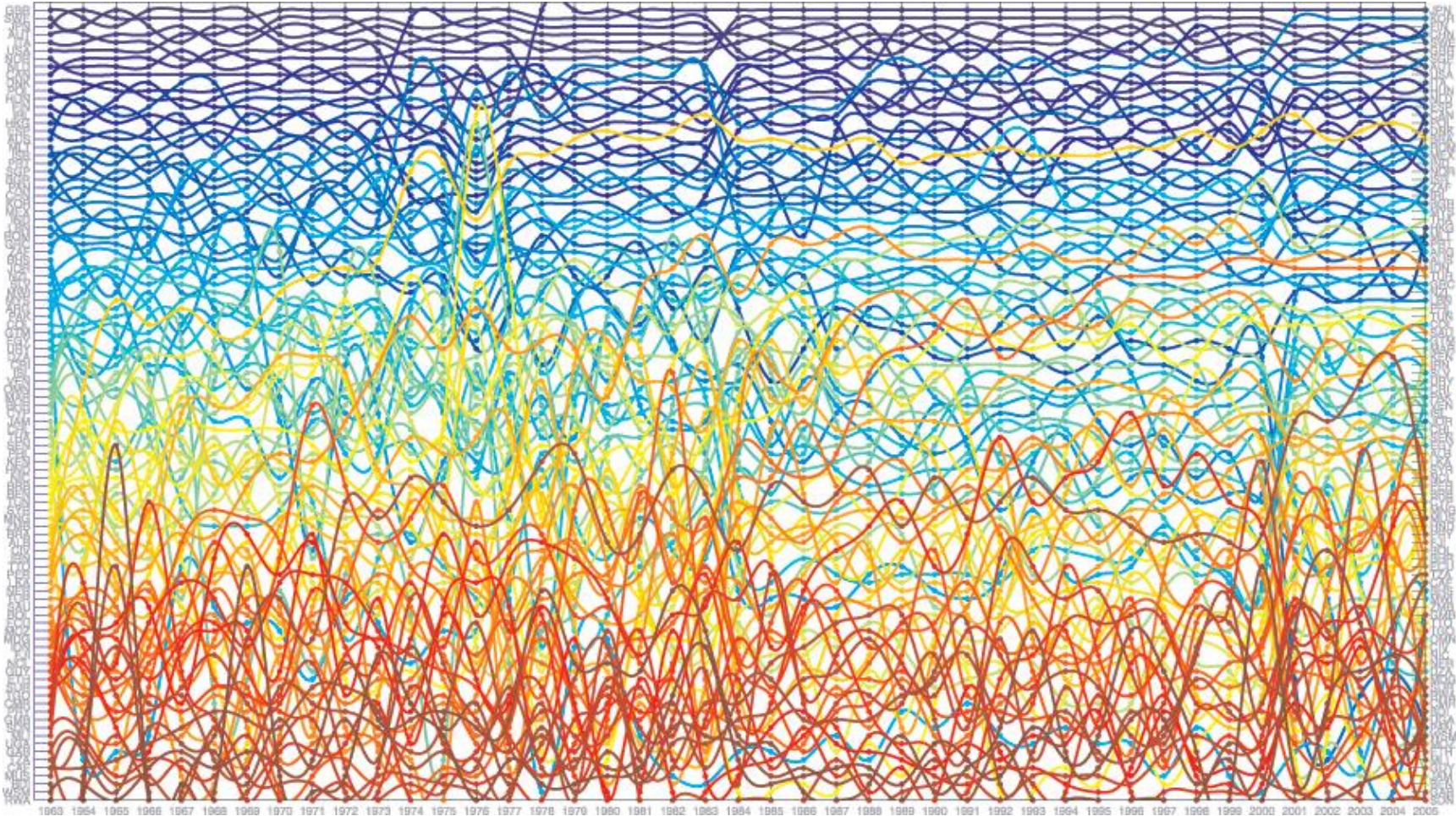




ANDERLEDES



Bedrifter skal fokusere; lande skal sprede





Mulige ledige positioner fx

- Robot-hovedstad
- Vin-hovedstad
- Ældre-hovedstad
- 3D-Hovedstad
- E-commerce hovedstad
- Selvkørende bil-hovedstad
- AI-hovedstad
- Internet of Things-hovedstad
- Big Data-hovedstad



PPP



E18 fra Kristiansand til Grimstad

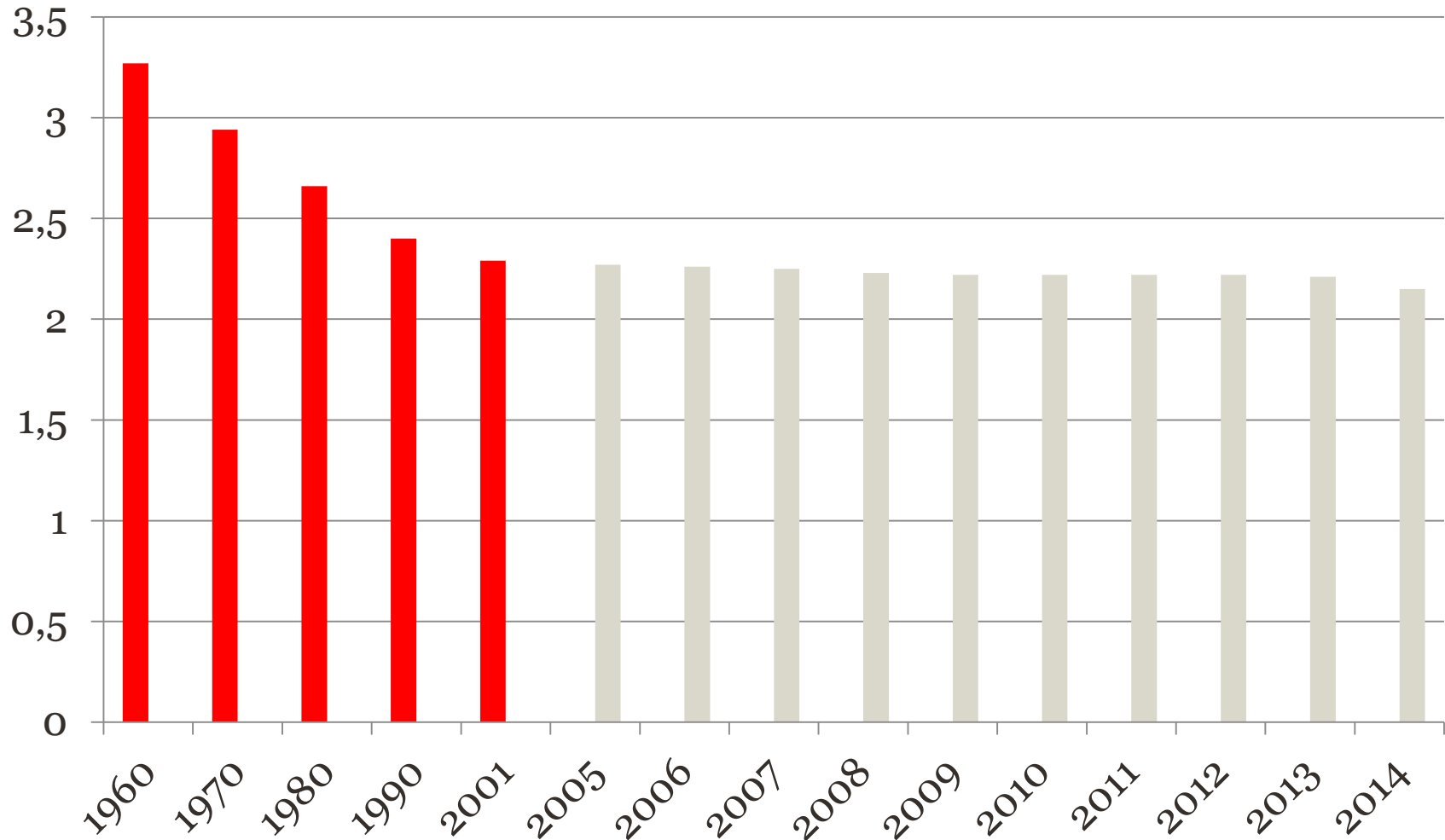




SINGLE

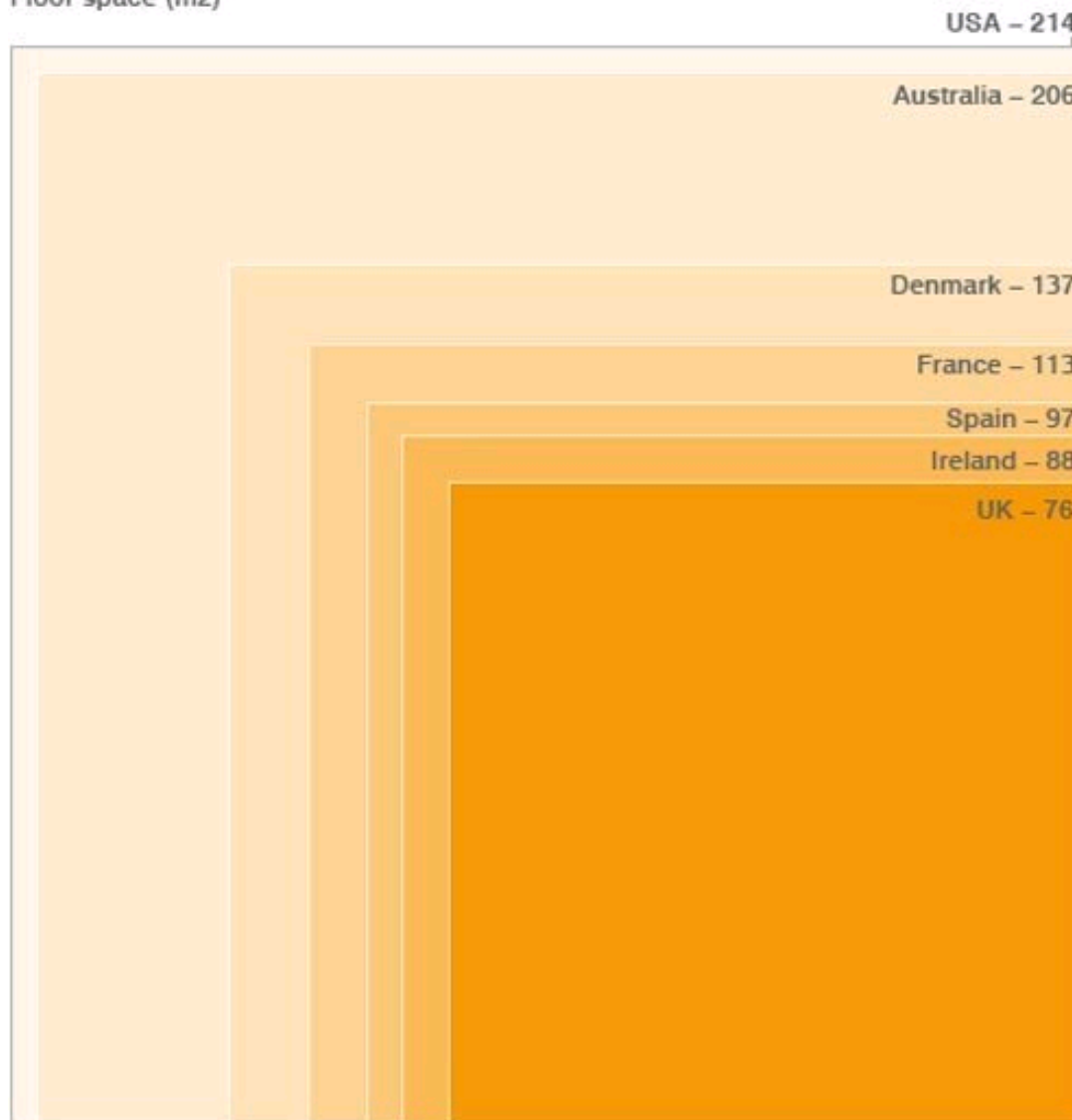


Personer i privathusholdninger





Floor space (m2)





DISRUPTIVE BYGGERI



Disruptive Technologies



Created by:
 Daniel Tay
 May 2013 Singapore
 boingx5@gmail.com
 www.tayxiangsheng.com
 @tayxiangsheng





Flüchtlinge

Der Kampf um Wohnungen beginnt

In vielen Großstädten ist der Wohnungsmarkt ohnehin schon angespannt. Nun brauchen auch noch Tausende Flüchtlinge eine Bleibe. Das macht die Städte kreativ.

Von **Nadine Oberhuber**

14. September 2015, 8:35 Uhr / [291 Kommentare](#)





Der bygges mange billige boliger i rimelig kvalitet, fx 36 millioner ”affordable homes” i Kina





3D ...





DISRUPTIVE DRIIFT



Robotter til grønne områder





Robotter til rengøring mv.





FORTÆTNING OG SPRAWL



Tettstedet 5001 Bergen

251.281 Indbyggere

89 km²

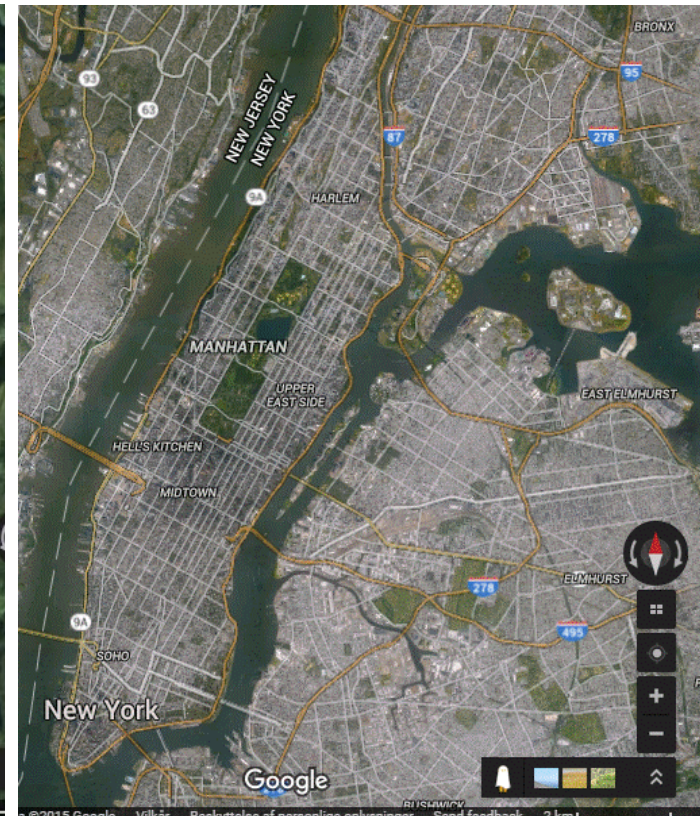
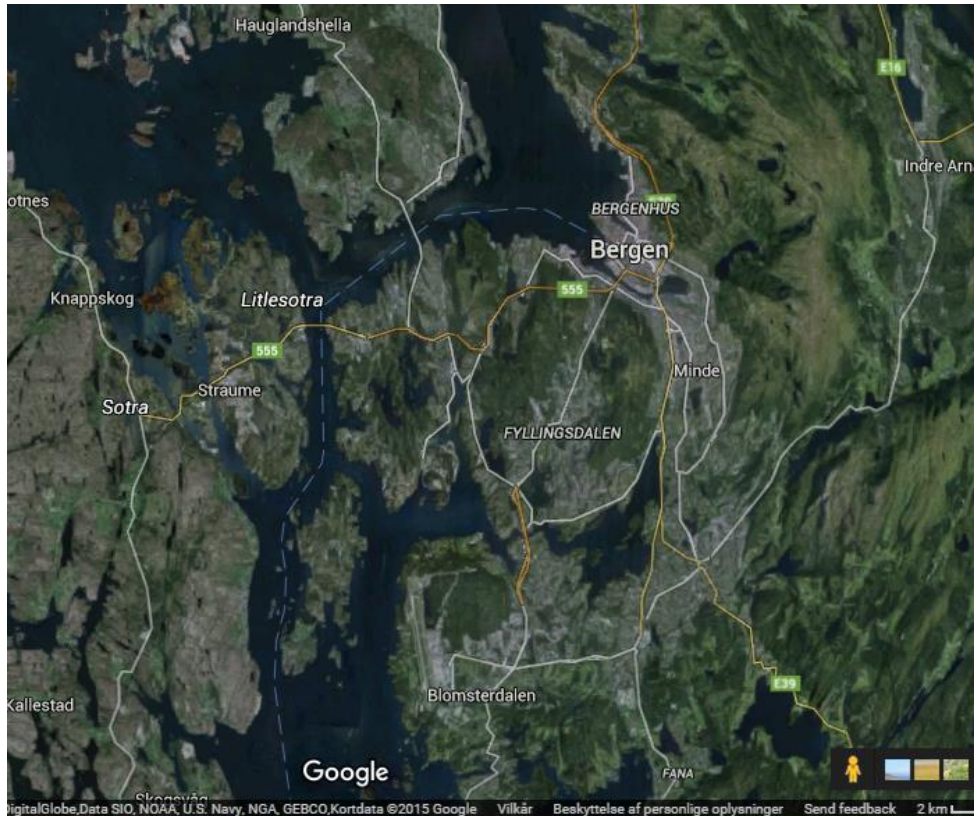
2.829 / km²

Manhattan

1.636.000 indbyggere

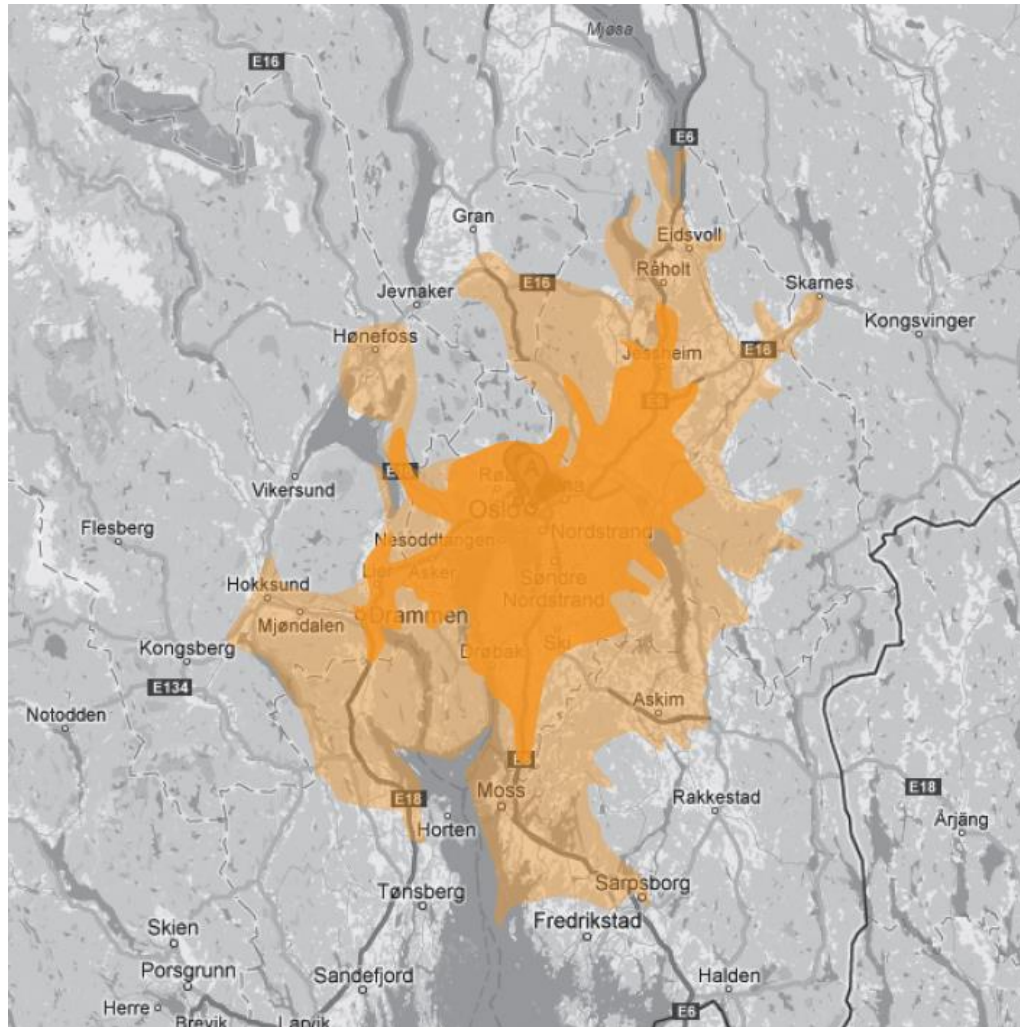
87 km²

27.672 / km²





Før og efter selvkørende biler (1 times pendling før og efter)





KLIMA + ENERGI







FLEX



R.I.P. ?







BROWSE OSLO 3D PRINTERS

How 3D Hubs works



Upload your 3D Design
in the simple .STL format



Choose a Print Location
and see real-time prices



Pick up your Product
or get it shipped

START YOUR 3D PRINT



R.I.P. ?





R.I.P. ?







IKEA Concept Kitchen uden køleskab





Gør det selv hedder nu ”Makerkultur”

MADE **2014** **AUGUST**
25.-30.
AT MUSICON
ROSKILDE





IN

- Service-"butikker"
- Kontorhoteller
- Mødesteder
- "Maker"-rum
- Bylandbrug
- Gæsteværelser/Airbnb

OUT

- Funktionsopdeling
- Banker
- Non-food butikker
- Traditionelle kontorer
- Tankstationer



P2P



The Plant: Living Foyer



Our net-zero vertical farm needs a welcoming entry where our guests and volunteers can see that they are in a new kind of building.

Created by

Bubbly
Dynamics



565 backers pledged \$65,230 to help bring this project to life.



Fremtiden kommer før du tror

