



UN Global Platform

Mark Craddock

#UNGlobaPlatform

@mcraddock

@UNBigData



A global collaboration to harness the power of data for better lives

#UNGlobalPlatform



A decorative graphic featuring a large, light blue dashed circle that frames the central text. Various colored circles (blue, green, yellow, orange, pink) are scattered around the perimeter of the dashed circle, some solid and some hollow.

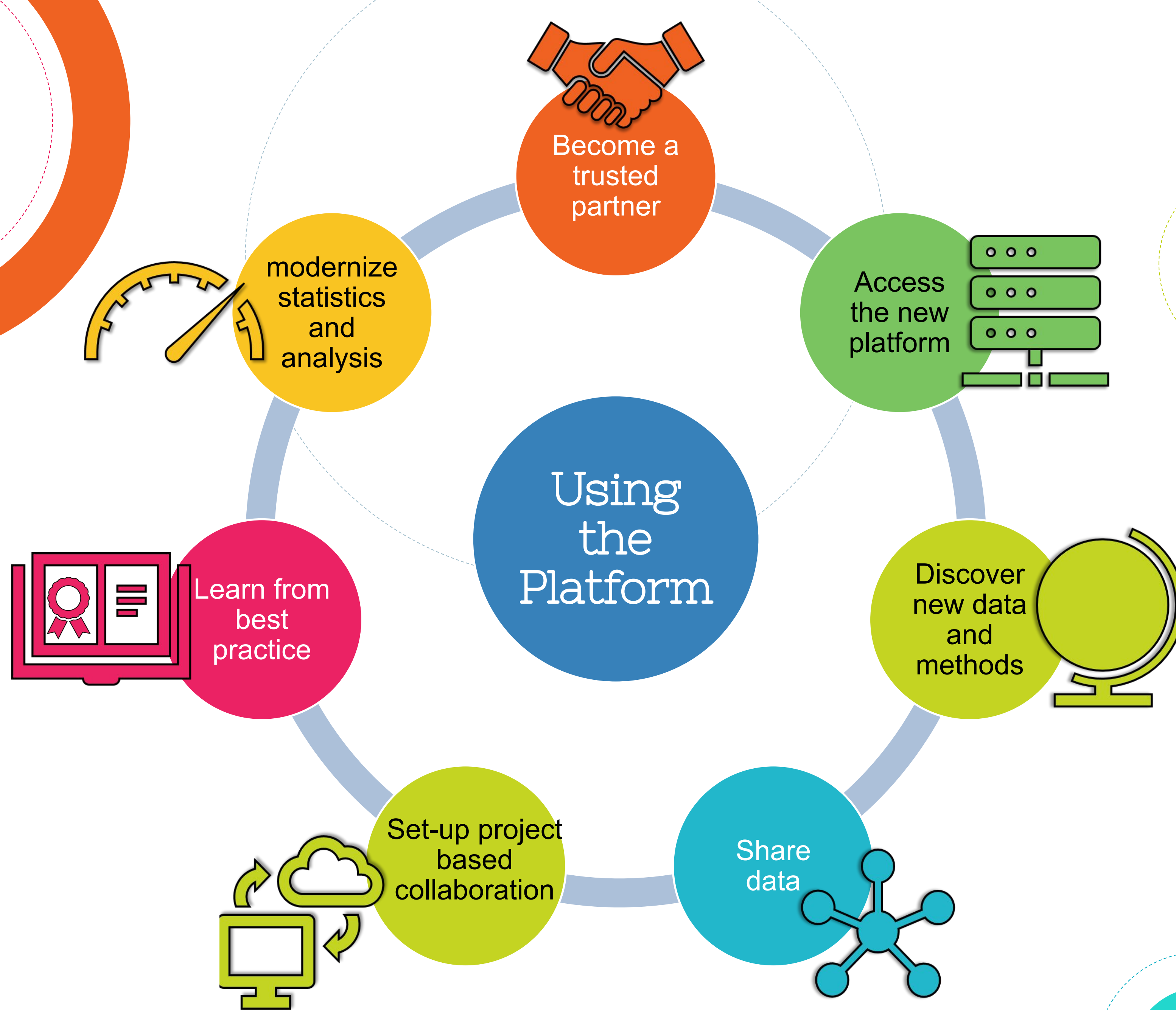
Leave no one behind

Endeavour to reach the
furthest behind first

UN GWG (Big) Data Membership

Australia; Bangladesh; Brazil;
Cameroon; **Canada; China;**
Colombia; **Denmark;** Egypt;
Germany; Indonesia; Ireland; Italy;
Mexico; Morocco; **Poland;**
Netherlands; Oman; Pakistan;
Philippines; Republic of Korea;
Saudi Arabia; Switzerland; **United**
Arab Emirates; United Kingdom;
United Republic of Tanzania;
United States of America

United Nations Statistics Division,
United Nations Economic Commission
for Africa , Nations Economic and
Social Commission for Asia and the
Pacific, United Nations Economic
Commission for Europe, United Nations
Statistical Institute for Asia and the
Pacific, United Nations Global Pulse,
International Telecommunication
Union, Universal Postal Union, African
Development Bank; CARICOM,
GCCSTAT, Eurostat/European
Commission, International Monetary
Fund, OECD, World Bank





SUSTAINABLE DEVELOPMENT GOALS





BigData

UN Global Working Group

“

The world is drowning in data and thirsty for insights

@rebeccatmoore

Director, Google Earth, Earth Engine & Earth Outreach at Google

#UNGlobaIPlatform



BigData

UN Global Working Group

“

The world is drowning

.....

Marketplace

**Earth
Observation
Service**

**Satellite
Imagery**

**Location
Analytics
Service**

**Online
Community**

**Trusted
Methods
Service**

**Global
Billing**

ADS-B

**Developers
Service**

AIS

**ML
Ready**

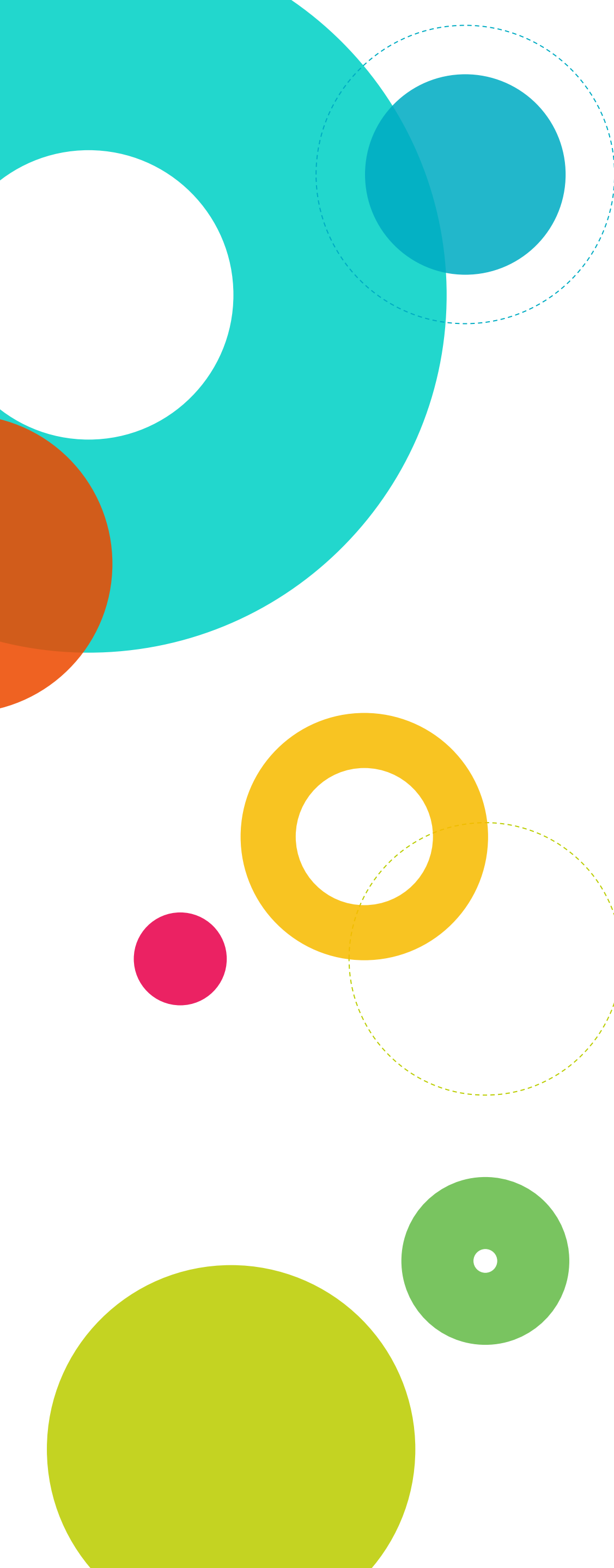
#UNGlobaPlatform



Holding Government to Account Using Platform Thinking *(not technology platform)*



Wardley Maps

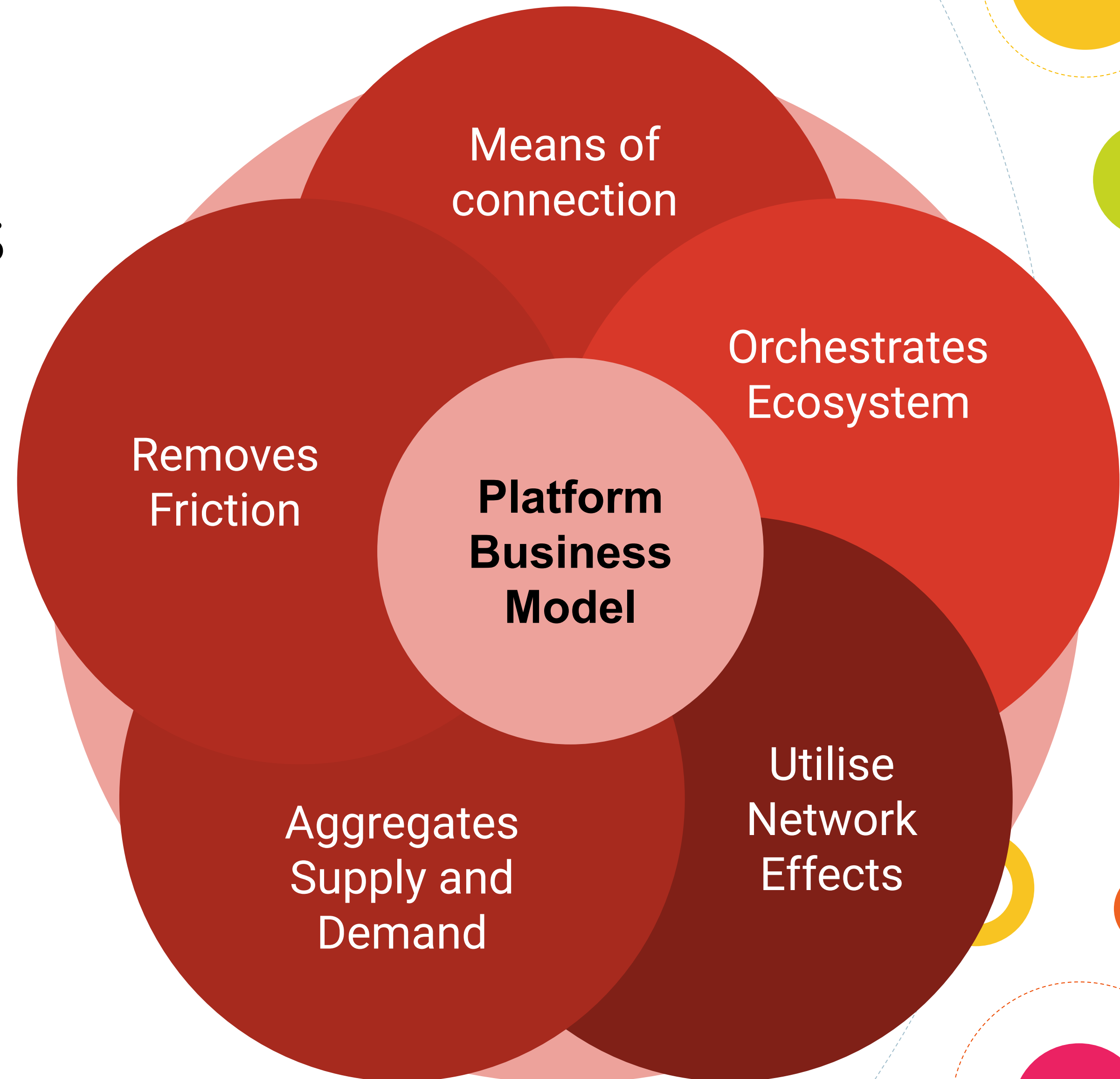


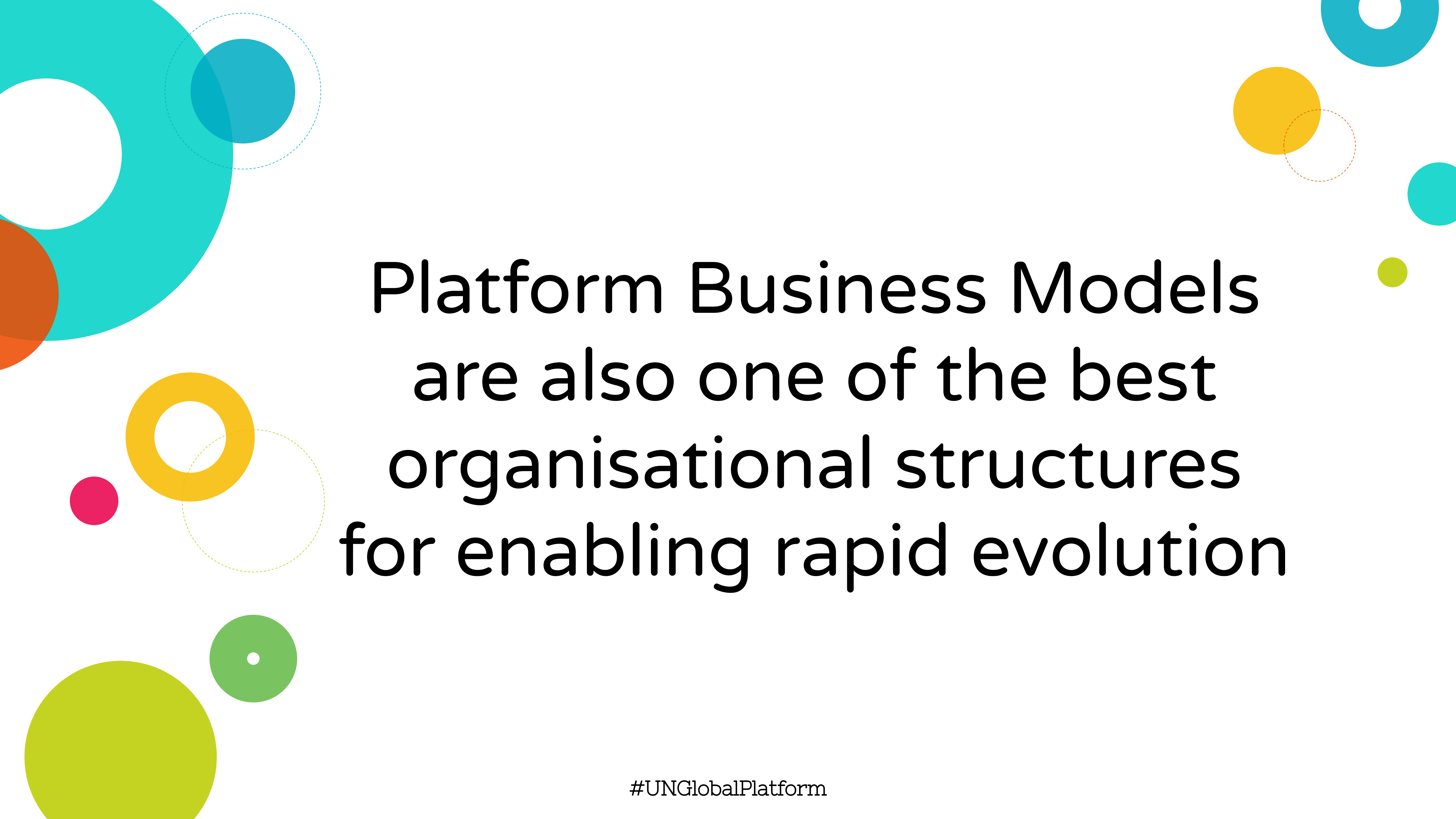
Wardley Mapping

- © Platform Strategy
- © Platform Business Model (Organisation)
- © Platform Services
- © Technology Strategy Handbook
- © Privacy Preserving Techniques Handbook
- © Digital Services Roadmap

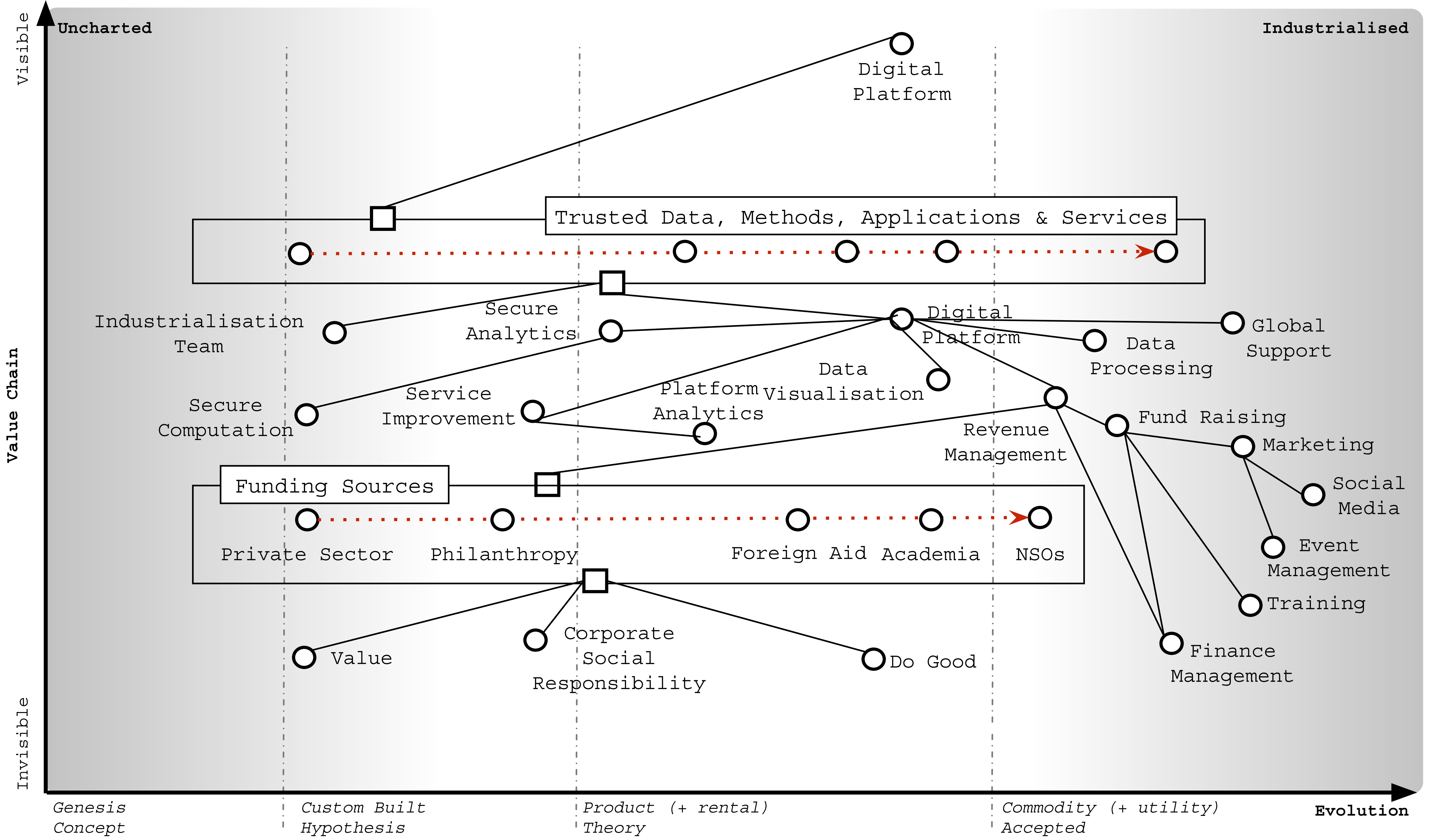
Platform Business Model

- © Shaping an ecosystem
- © Utilise the network effects
- © Aggregates supply and demand
- © Remove frictions
- © Can have more than one type of value exchange going on





Platform Business Models
are also one of the best
organisational structures
for enabling rapid evolution



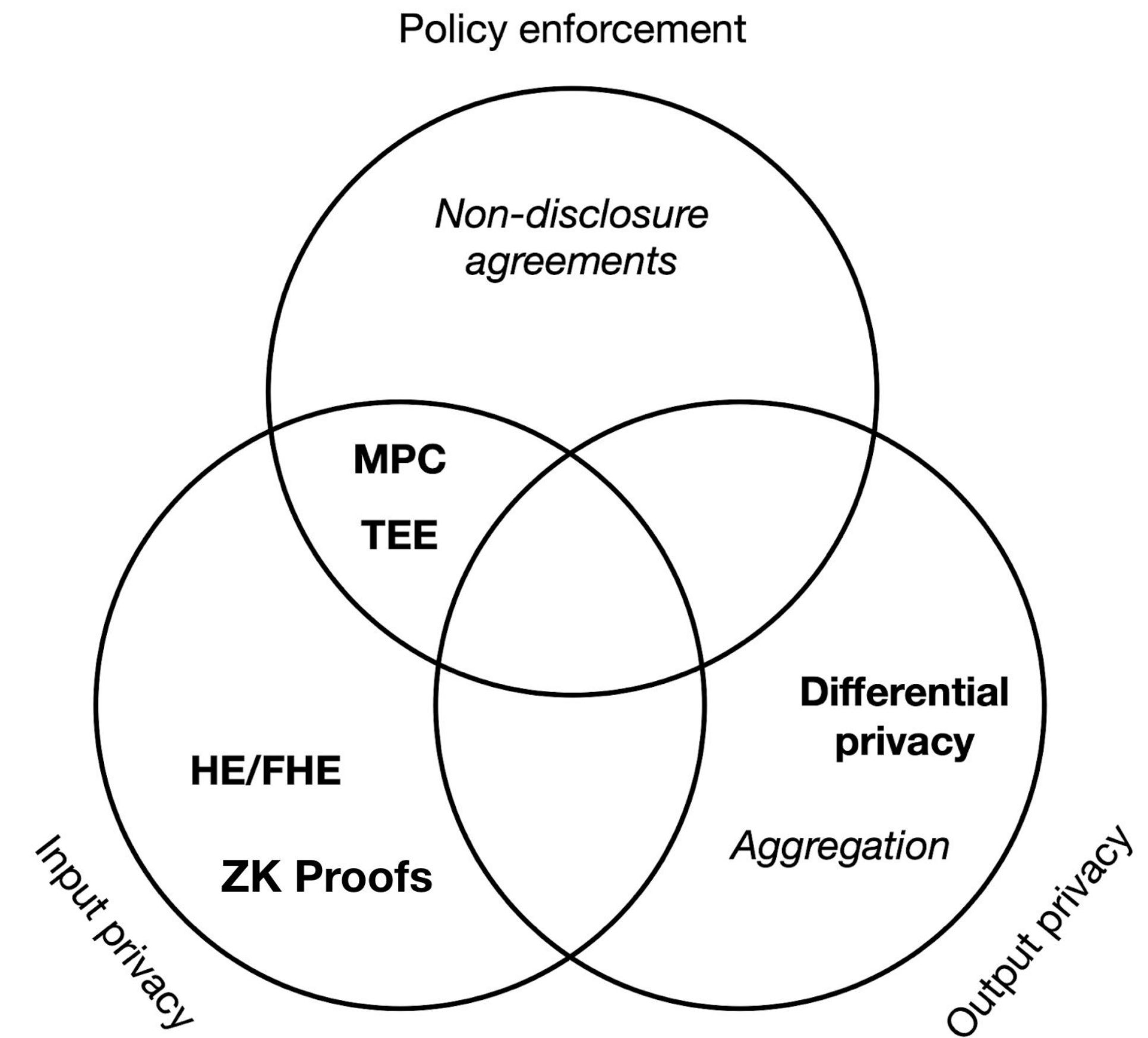


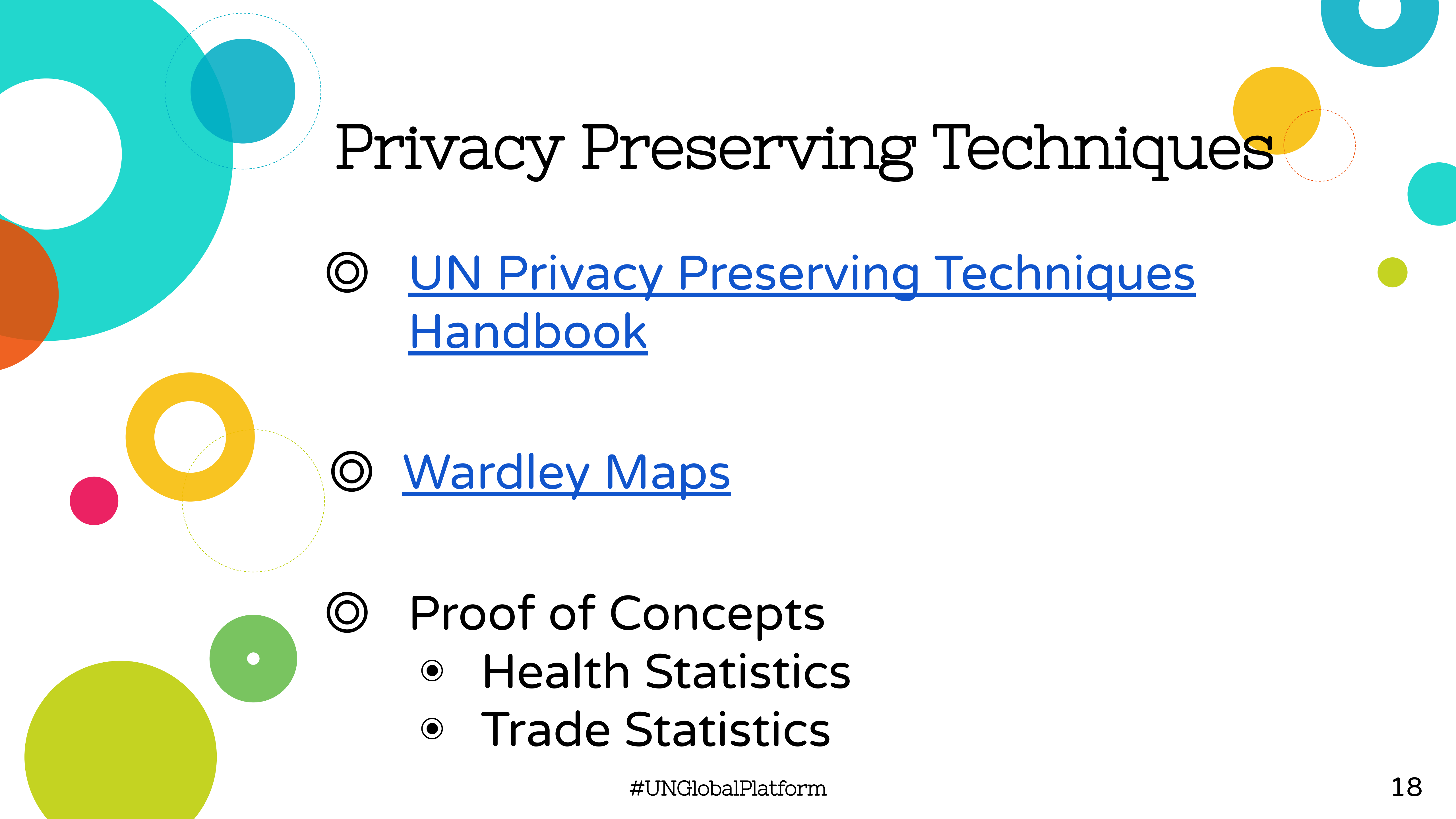
Technology Strategy Handbook

- © Wardley Mapping
- © Cloud
- © Machine Learning
- © Big Data
- © Serverless
- © IoT
- © Privacy Preserving Techniques

Privacy Preserving Techniques Handbook

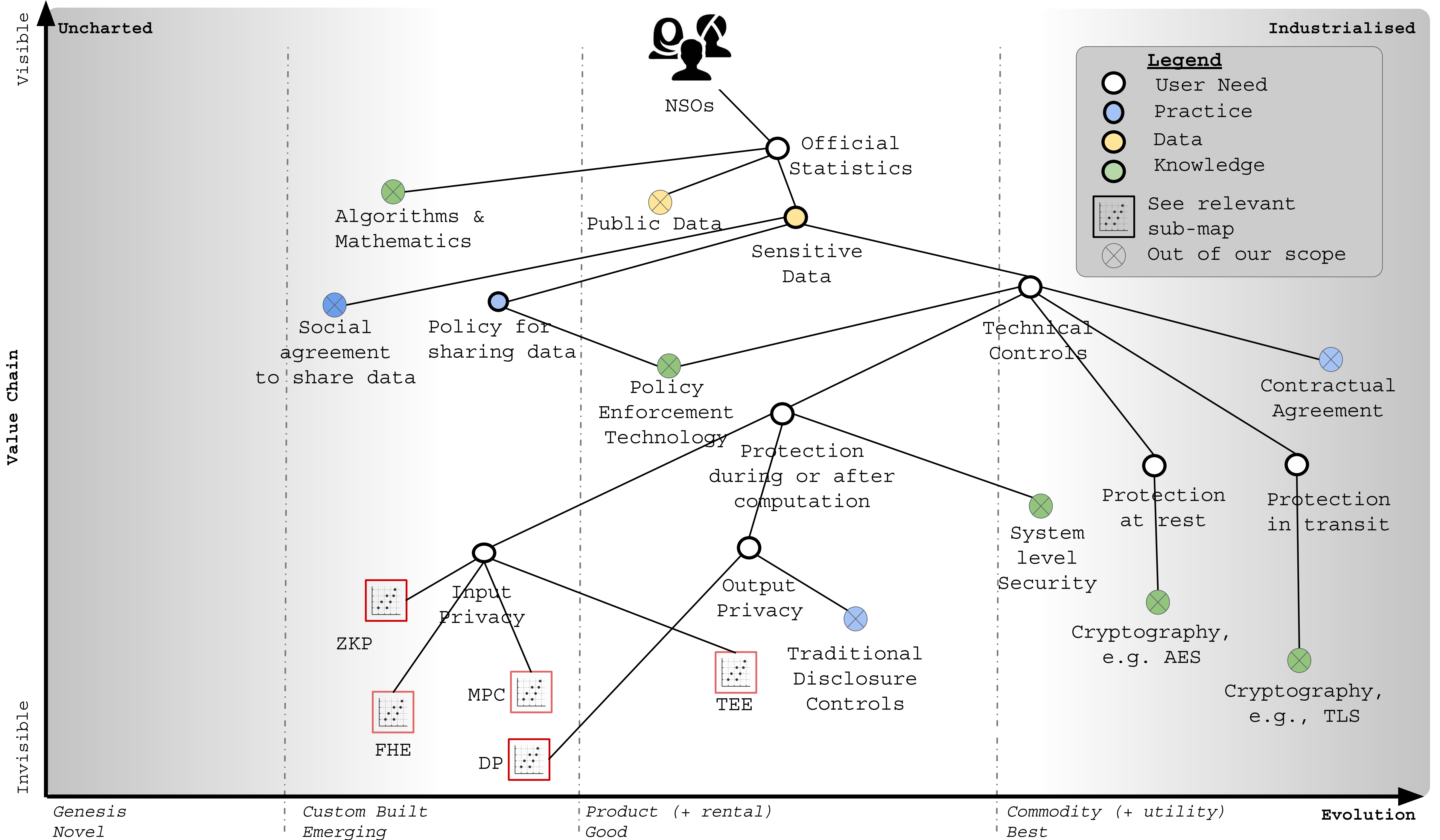
- © Multi-party Computation
- © Fully Homomorphic Encryption
- © Zero Knowledge Proofs
- © Trusted Execution Environments
- © Differential Privacy

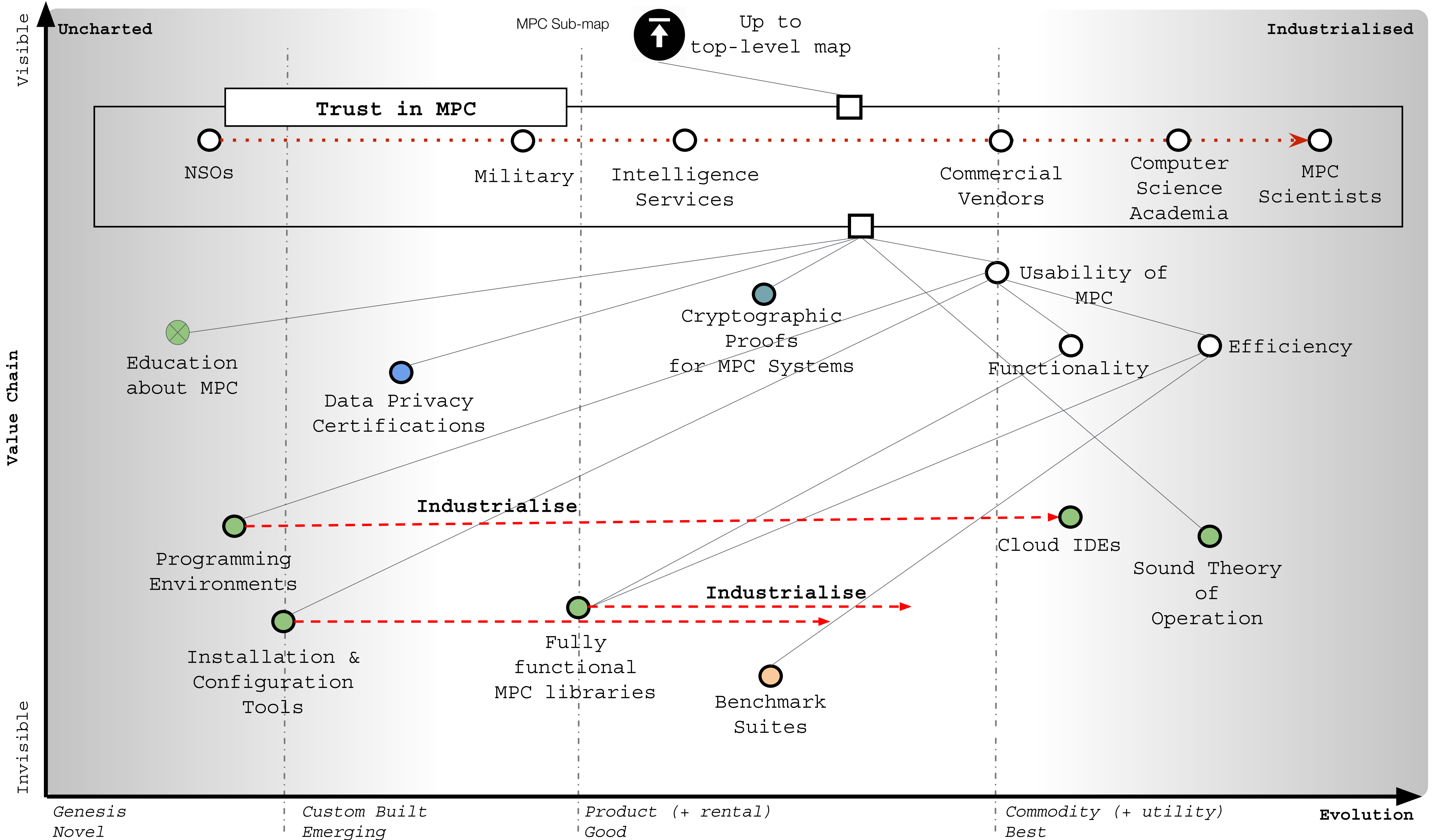


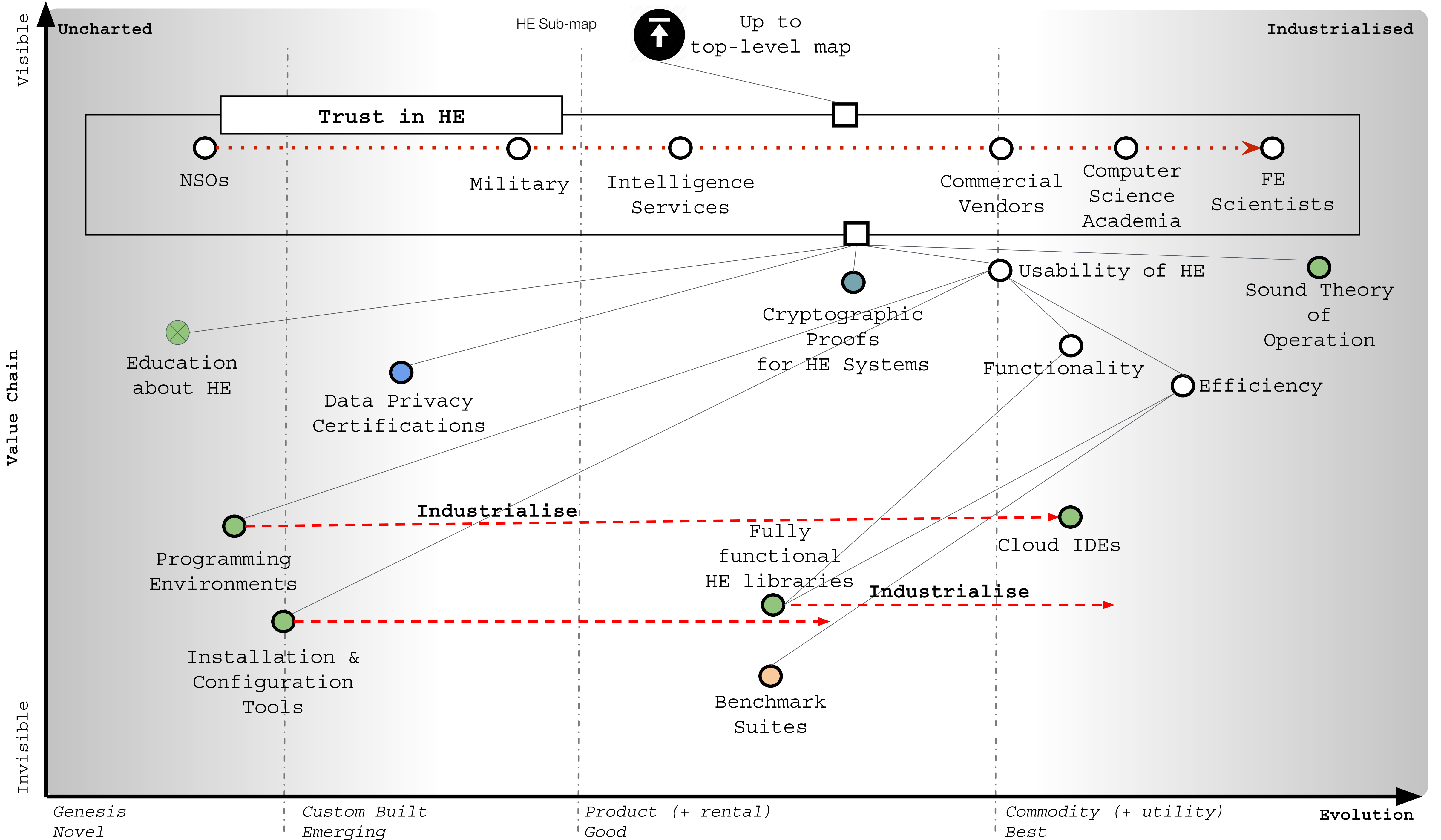


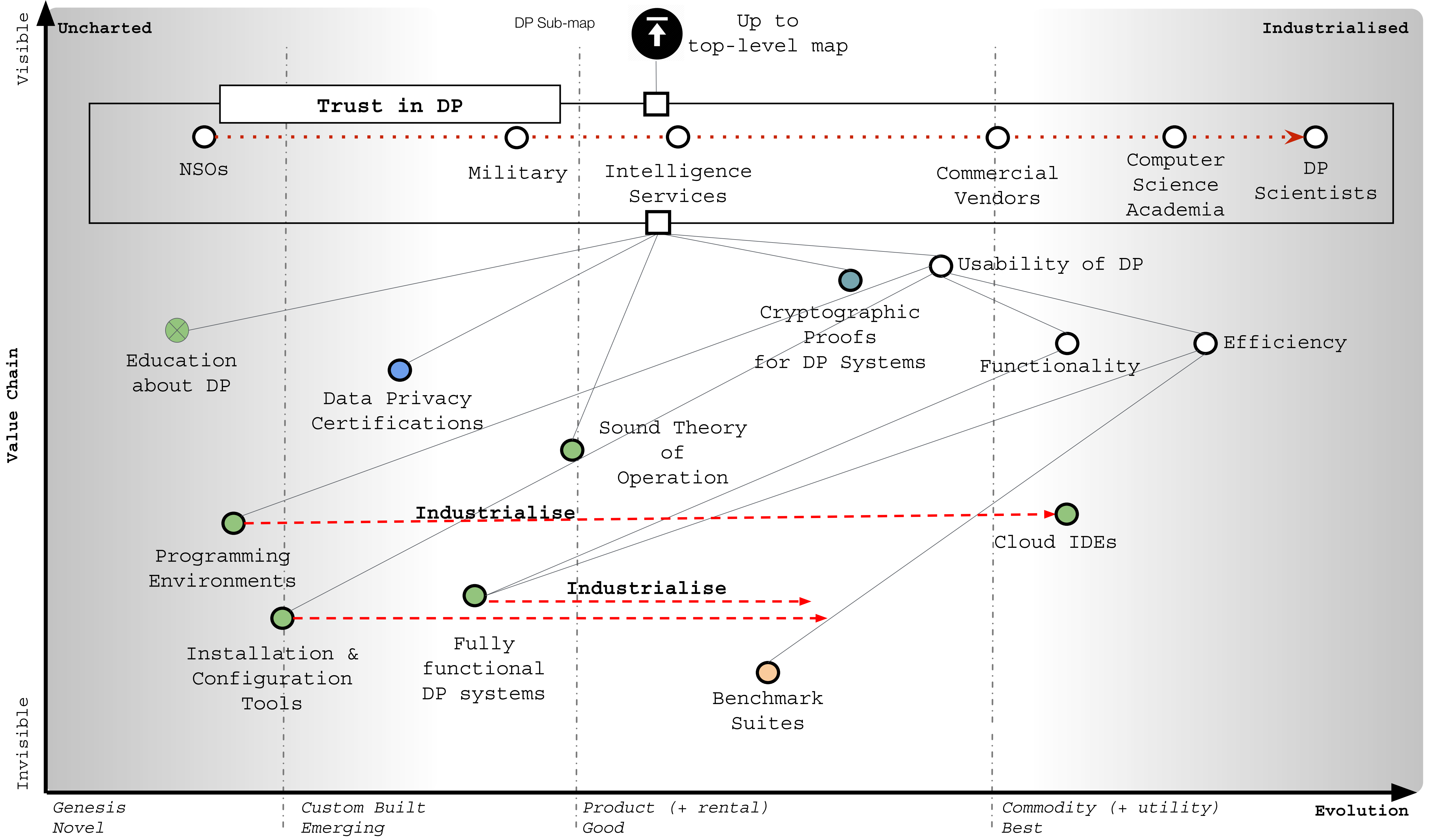
Privacy Preserving Techniques

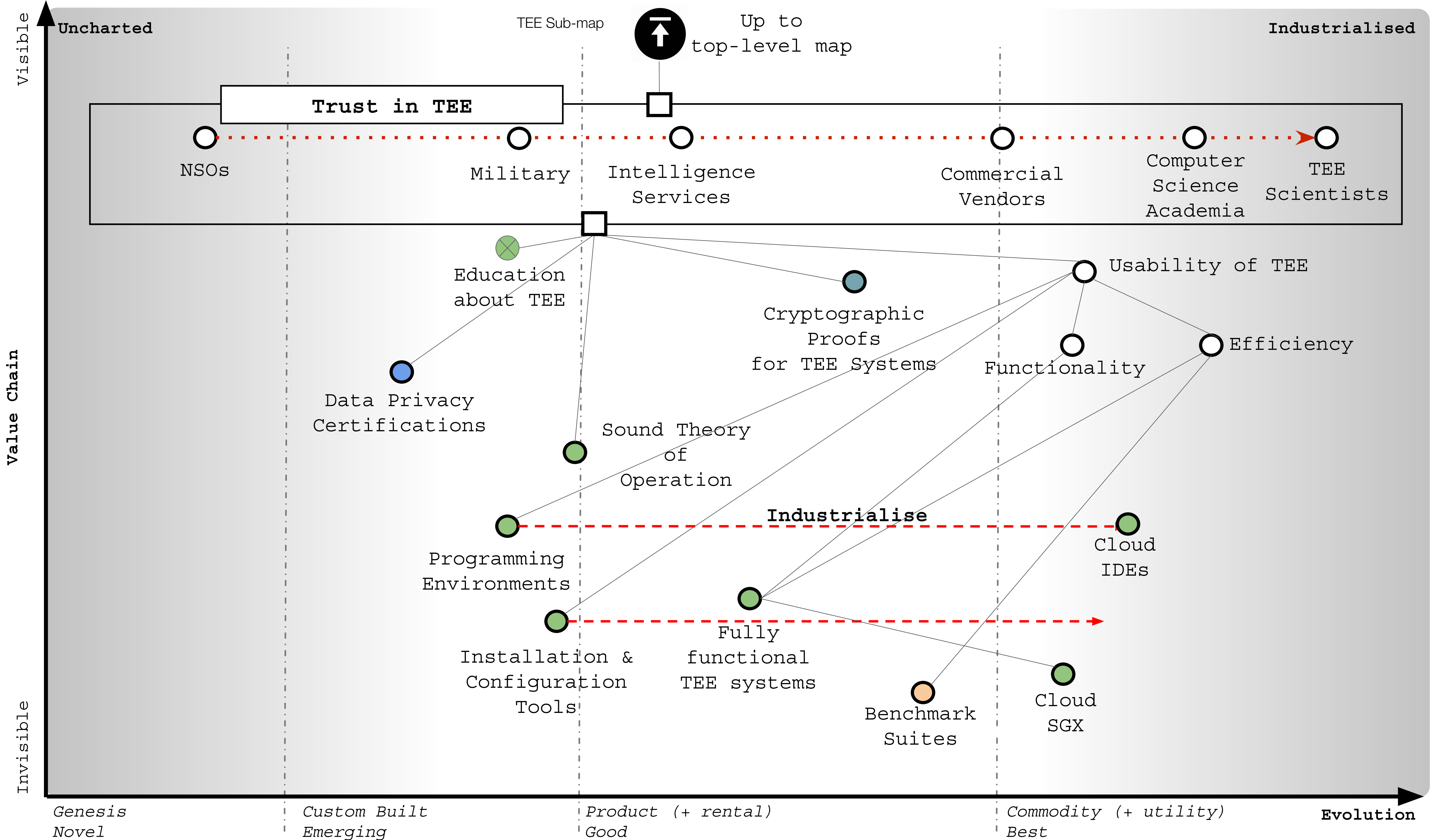
- © [UN Privacy Preserving Techniques Handbook](#)
- © [Wardley Maps](#)
- © Proof of Concepts
 - Health Statistics
 - Trade Statistics

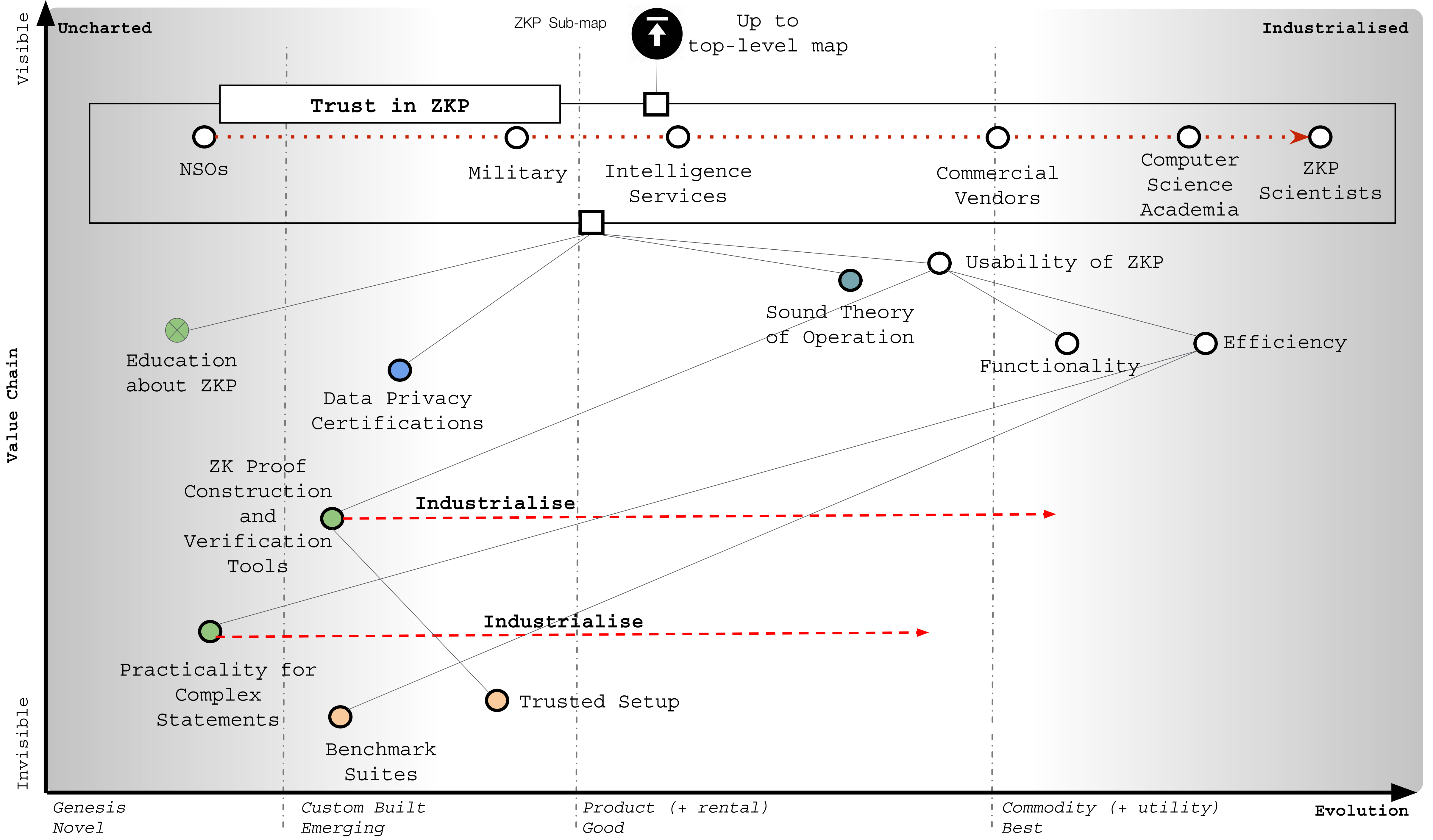












The background features a white canvas with several overlapping circles in teal, lime green, orange, and pink. A thin, light blue dashed line curves across the page, passing through some of the circles. The text is centered in a large, black, serif font.

Is Data A Commodity?

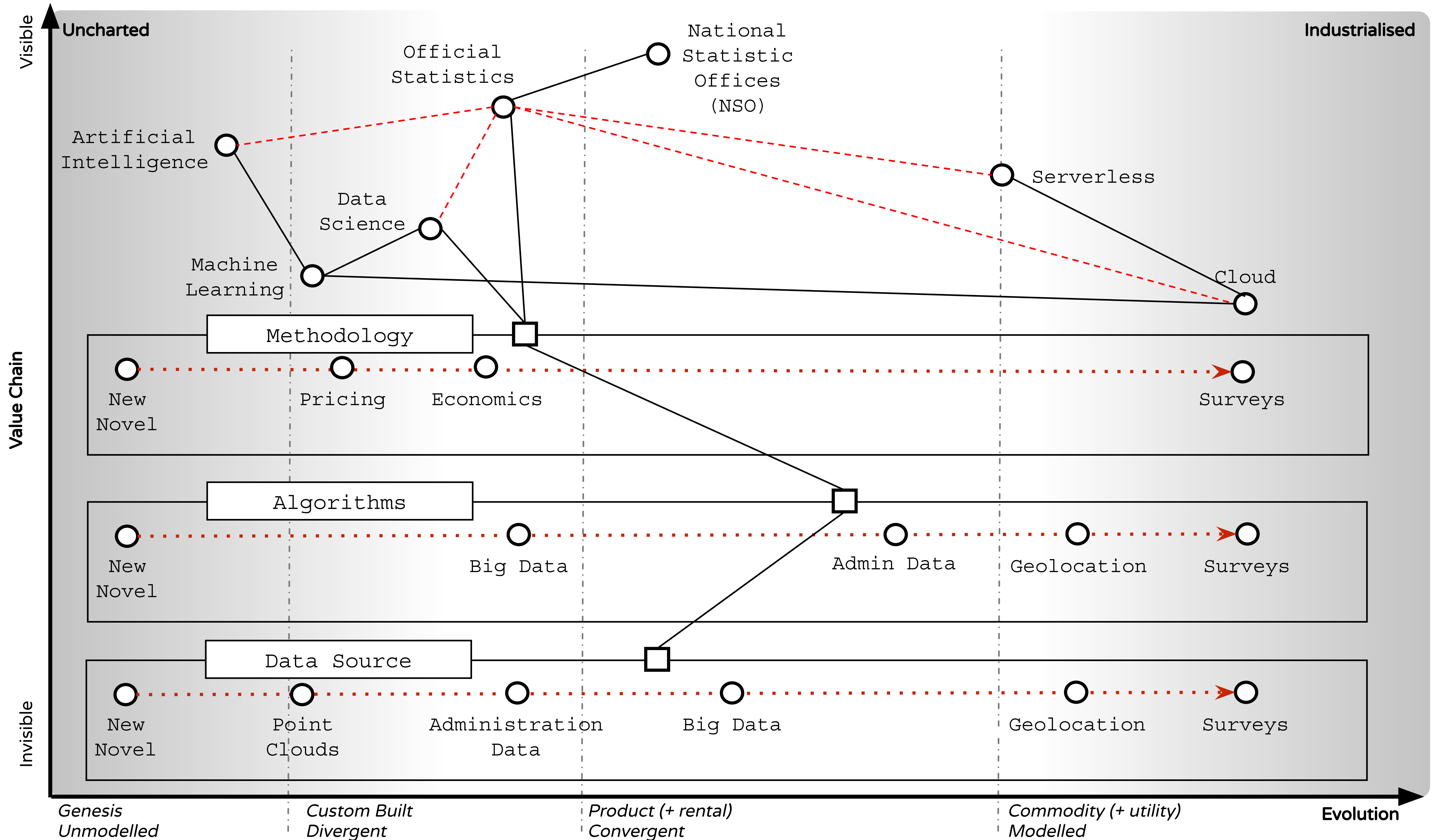
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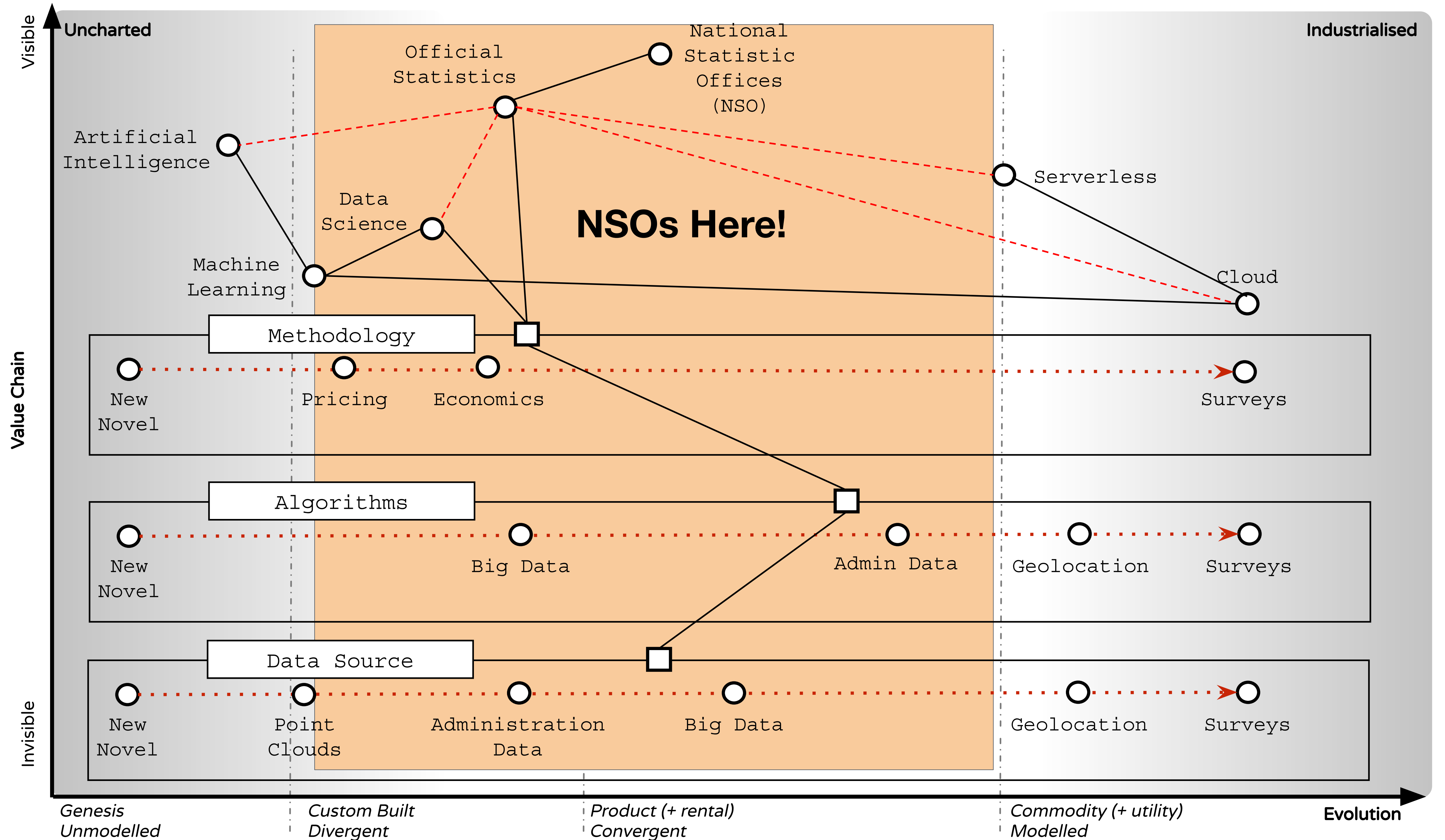
.... It Depends
(well ... it is in Denmark 🙄)

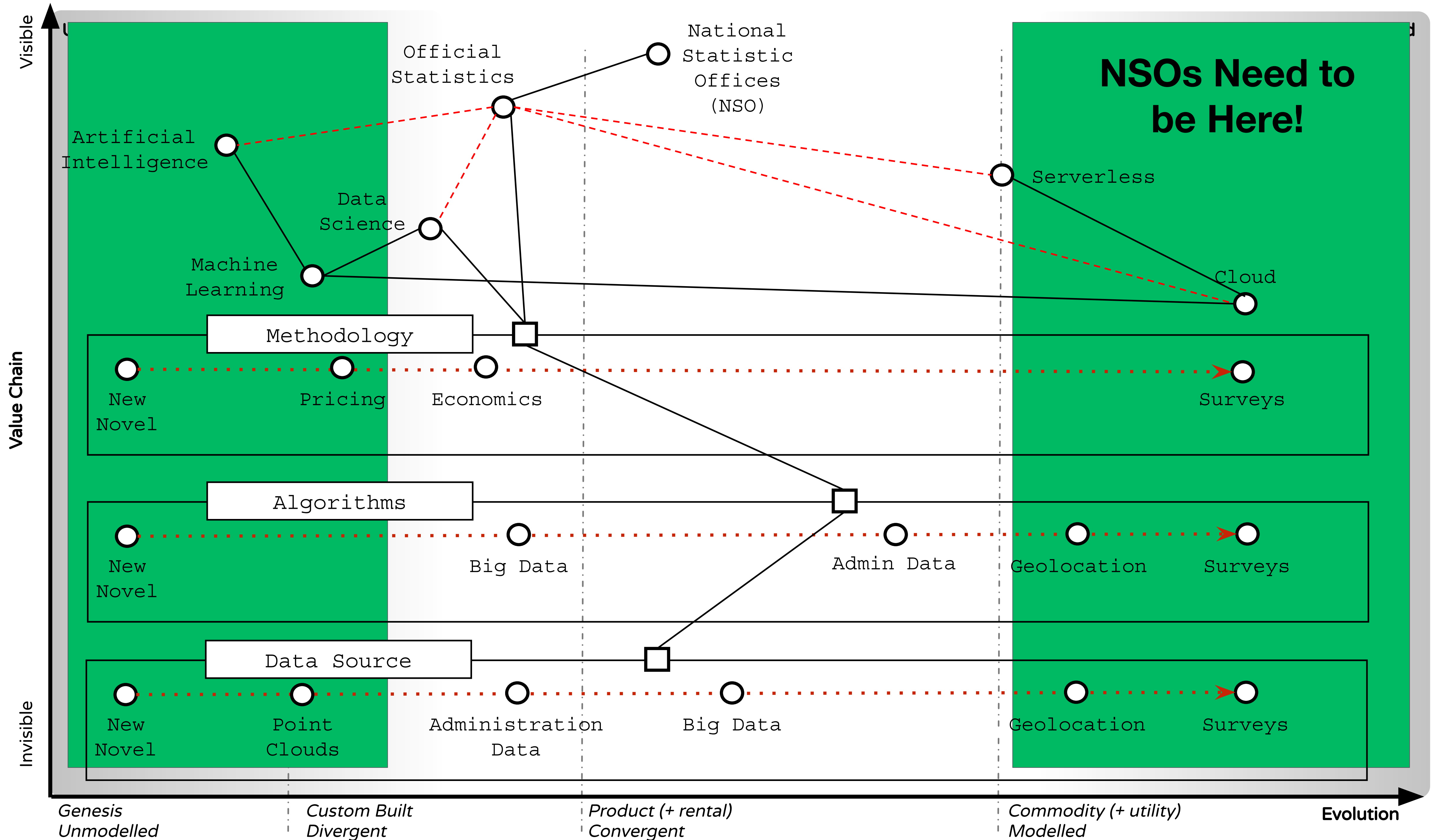
National Statistics Offices (NSO)

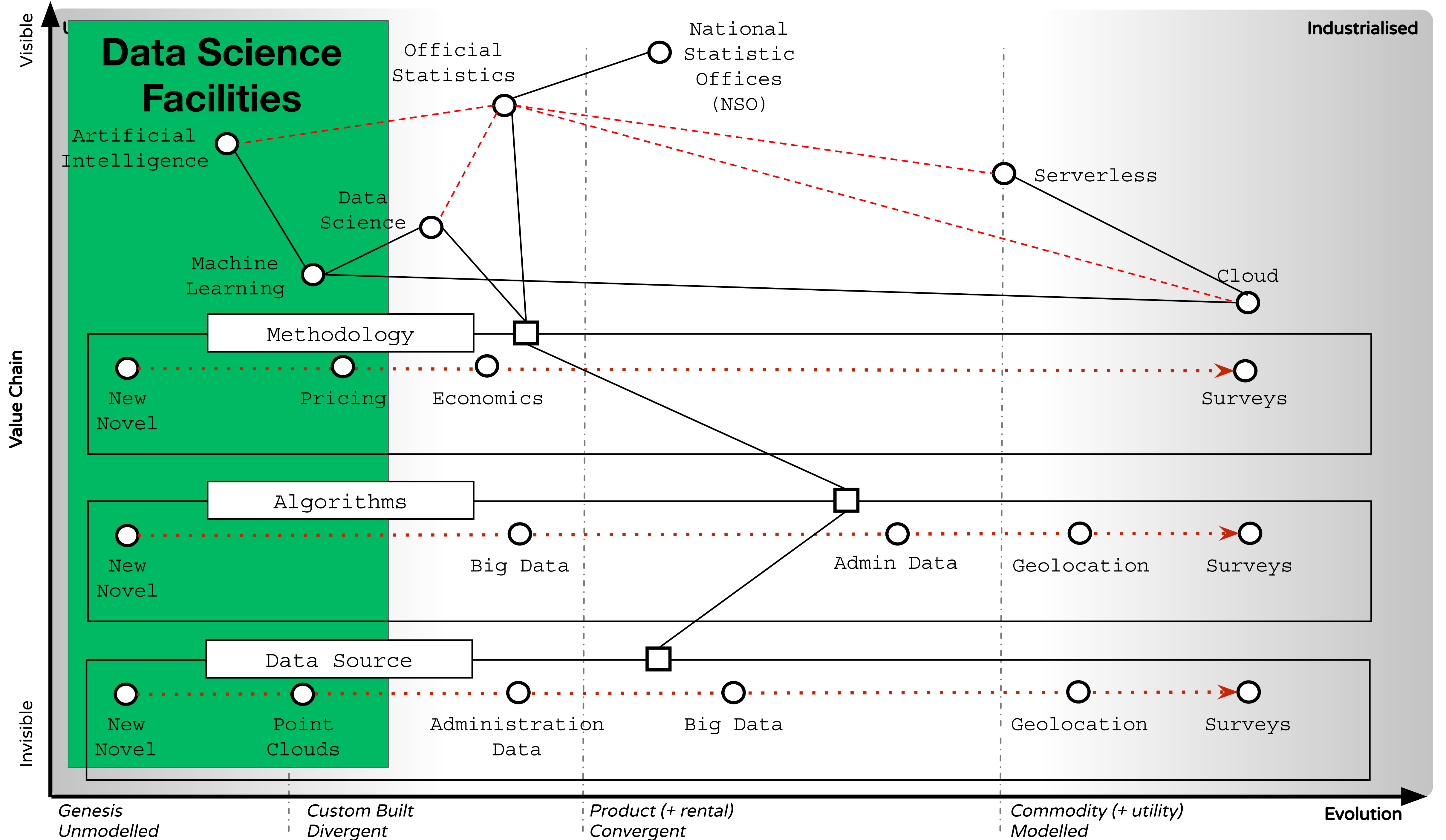
- © 100,000+ Staff Globally
- © Methodology
- © Algorithms
- © Data
 - Admin Data (Government)
 - Micro Data (Data)
 - Ying/Yang Data/Algos









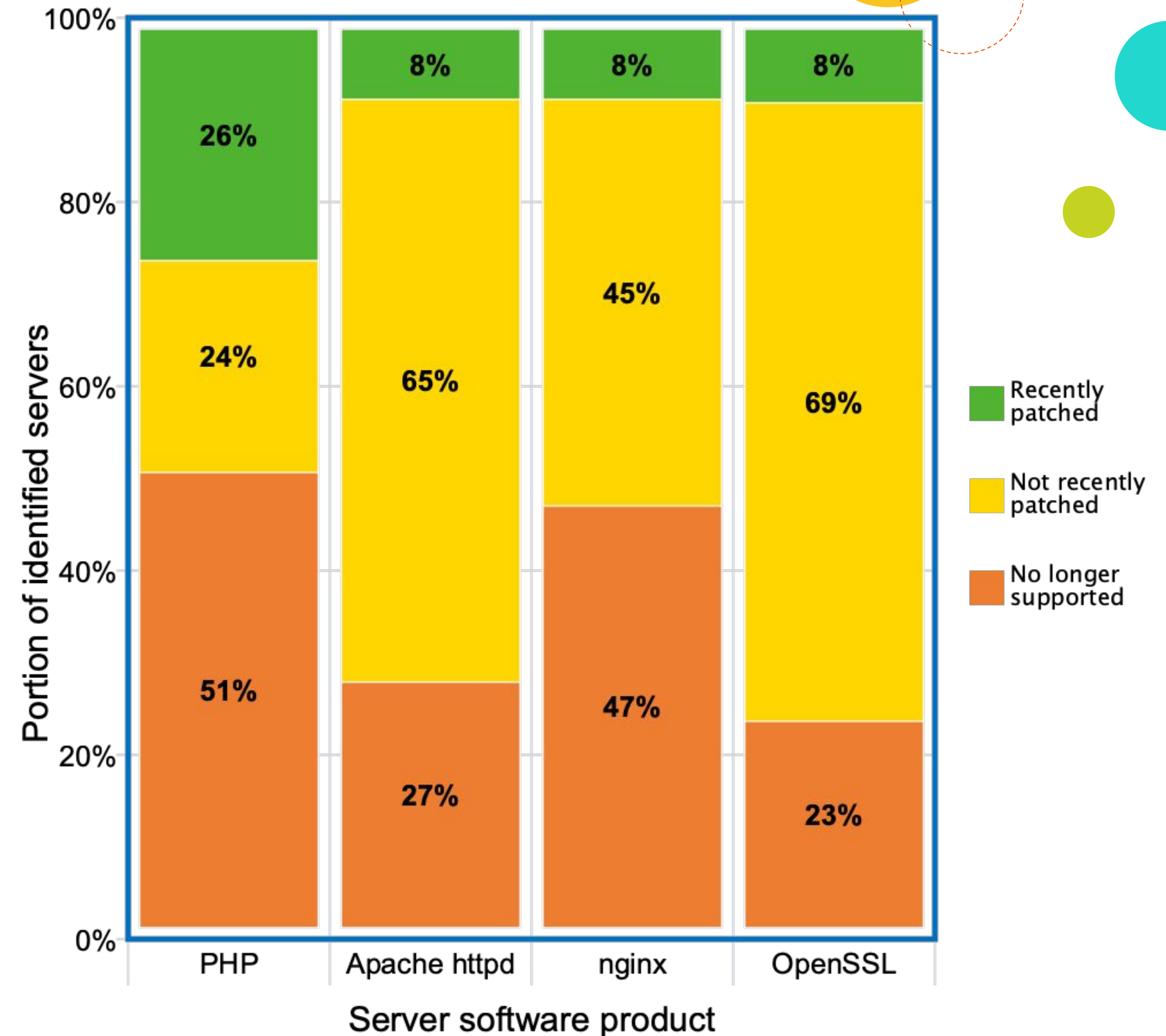


Serverless

NCSC research

shows that using
Serverless
components
makes it easier to
get good security
in the cloud

Patching Observed By Web Check



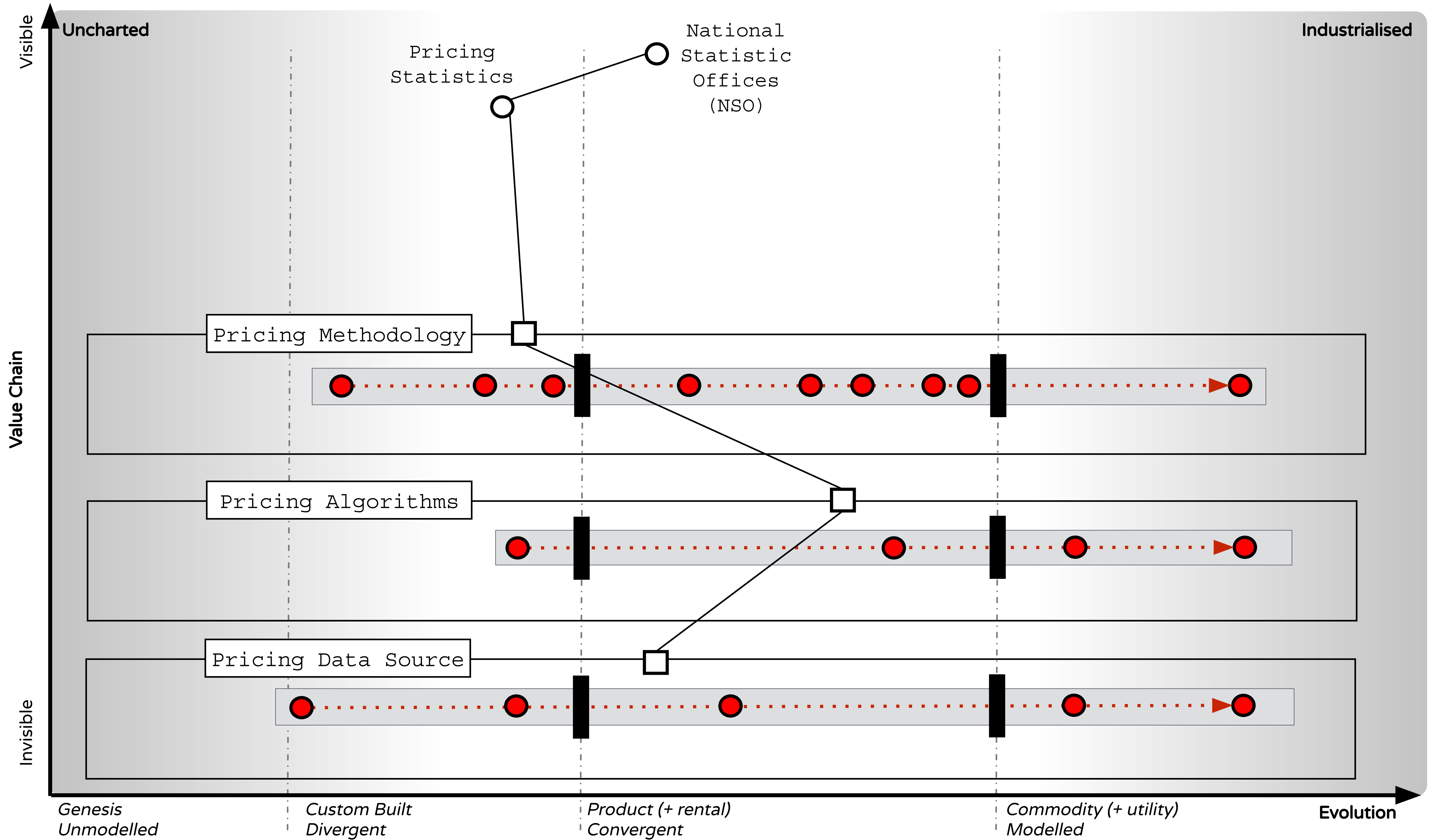


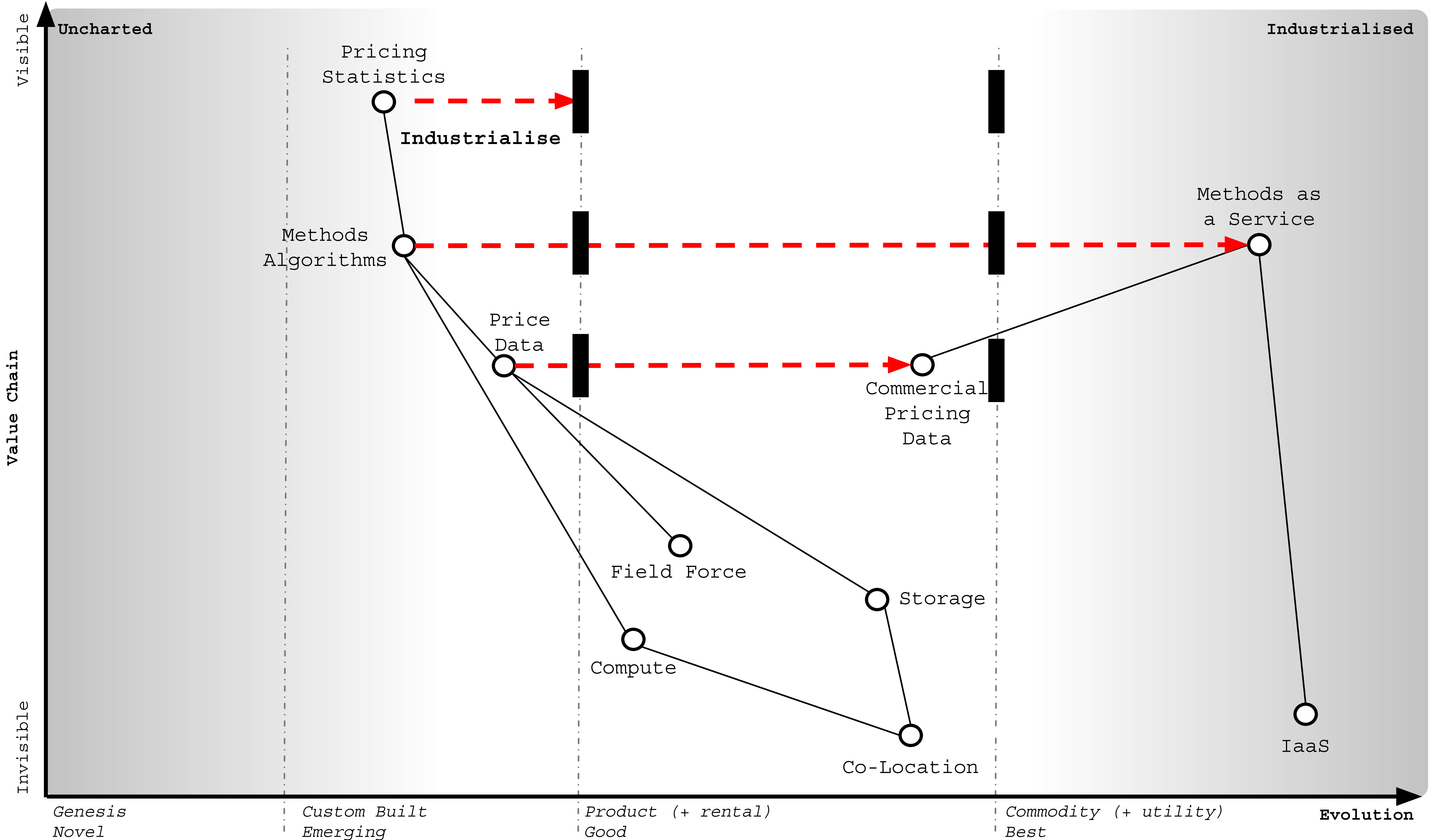
“

Across the sites declaring which software versions they were using, only about 7% had been fully patched in the previous 30 days. Meanwhile, 39% were reporting a product so old it was no longer supported by the vendor!

The background features a white canvas with several overlapping circles in teal, lime green, orange, and pink. A thin, light blue dashed line curves across the page, passing through some of the circles. The title 'Pricing Statistics' is centered in a large, black, sans-serif font.

Pricing Statistics

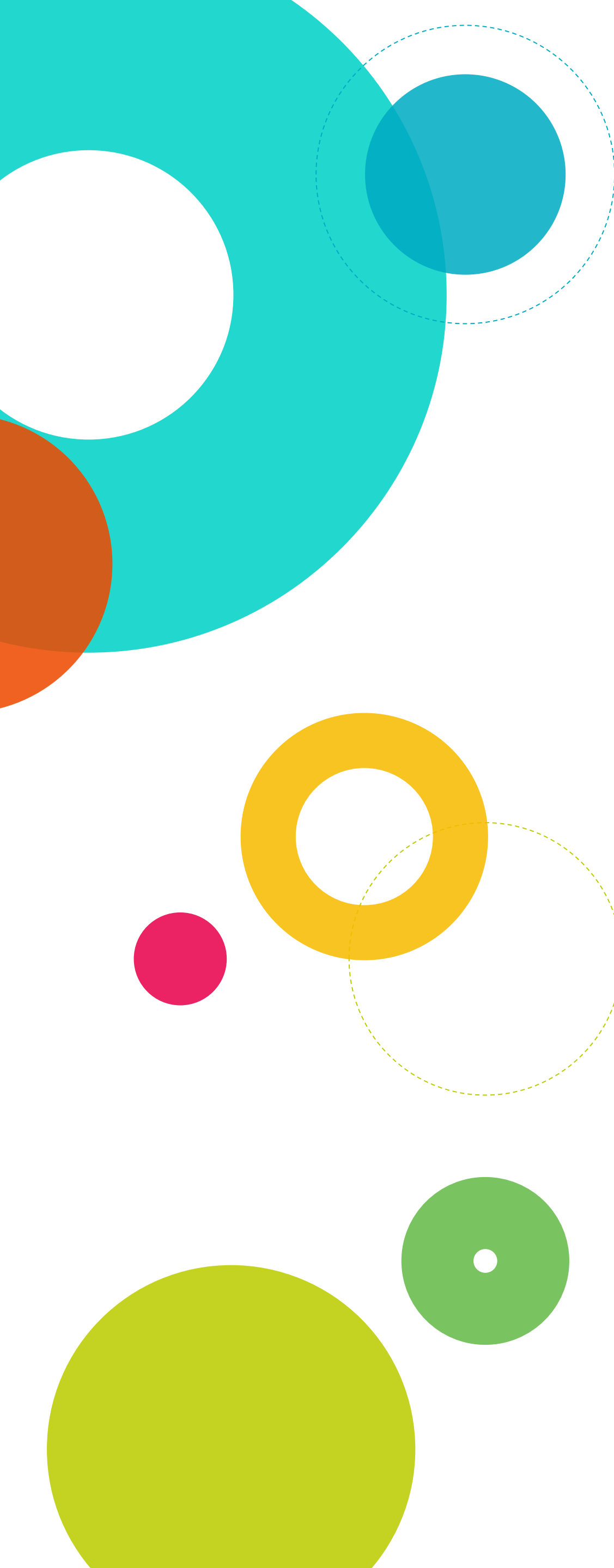




A decorative graphic featuring several overlapping circles in teal, lime green, orange, and pink. A thin, light blue dashed line curves across the page, passing through some of the circles. The word "Census" is centered in a large, black, serif font.

Census

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Australian Census 2016

- © Australia
 - \$500M
 - Reported - 40-Hour outage cost \$30m



UK Census 2021

- © £900M (Major Projects Authority)
- © Delivering a successful 2021 Census, **researching** how to make it the **last of its kind**
- © [2011 Census benefits evaluation report](#)
- © [Digital Economy Act](#) enables ONS to request information to create Official Statistics

U.S. Census 2020

- The U.S. 2020 Census is an enormous undertaking:
- Life-cycle cost estimate of \$15.6B dollars (including contingencies)
 - Operations designed to support an address-based enumeration of the resident population as of April 1, 2020
 - Field operations began on August 12th; address canvassing (for those basic collection units not updated in-office)
 - Peak field operations: March 2020-August 2020 (self response and non-response follow-up)
 - Peak data processing: March 2020-April 2021
 - Peak data analysis: September 2020-September 2023

United States
Census
Bureau

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

Denmark Census

© Four people
overnight

© Last census
1970!



Niels Ploug - arbejder i Danmarks Statistik mm.
@NPloug

Folketælling - kan nogen huske, hvornår vi sidst havde en? Administrative data er effektive.

[#Statistics](#) [#census](#) [#admindata](#)

Translated from Danish by Google

Census - can anyone remember when we last had one?
Administrative data is effective.

The background features a white canvas with several overlapping circles in teal, lime green, orange, and pink. A thin, light blue dashed line curves across the page, passing through some of the circles. The title 'Economic Statistics' is centered in a large, black, serif font.

Economic Statistics



Economic

- © Independent review of UK economic statistics: [final report](#)
- © “the longer a decision-maker has to wait for the statistics, the less useful are they likely to be”
- © Financial Crash 2008: 12 Weeks = £12Bn Cost to the Economy
- © Faster [Economic Indicators](#)



How Can You Get Involved?

How Can You Get Involved?

- © Read the [Handbook](#)
- © Use the [Template](#)
- © Start Mapping the [SDGs](#)
- © Publish Maps in [GitHub](#)
- © #WardleyMaps4SDGs

Harnessing the power of
~~data~~ Wardley Maps for
better lives





A global collaboration to
harness the power of ~~data~~
Wardley Maps for better lives
#WardleyMaps4SDGs

UN Global Platform



Harnessing the power of data for better lives



Thanks!



Any questions?

You can find me at @mcraddock & contactus@officialstatistics.org

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