

Why the fuss about serverless?

WARNING



Top quality prints and a **FREE** online photo service

- **Digital and film**

Easy upload for digital pictures and film rolls

- **Create online albums**

Unlimited secure space for your pictures

- **Photo upload software**

Upload your images from your desktop

- **Share your photos**

Friends, family, workmates, share the moment

- **Buy prints and gifts**

Turn your favourite photos into great gifts

username

password

Login

[forgotten password?](#)

[Take the Tour](#)

[Create an account](#)

Gifts Gallery

Turn your photos into great gifts!



Promotions

Share pictures & when friend registers, you both get 3 free 6x4 prints.

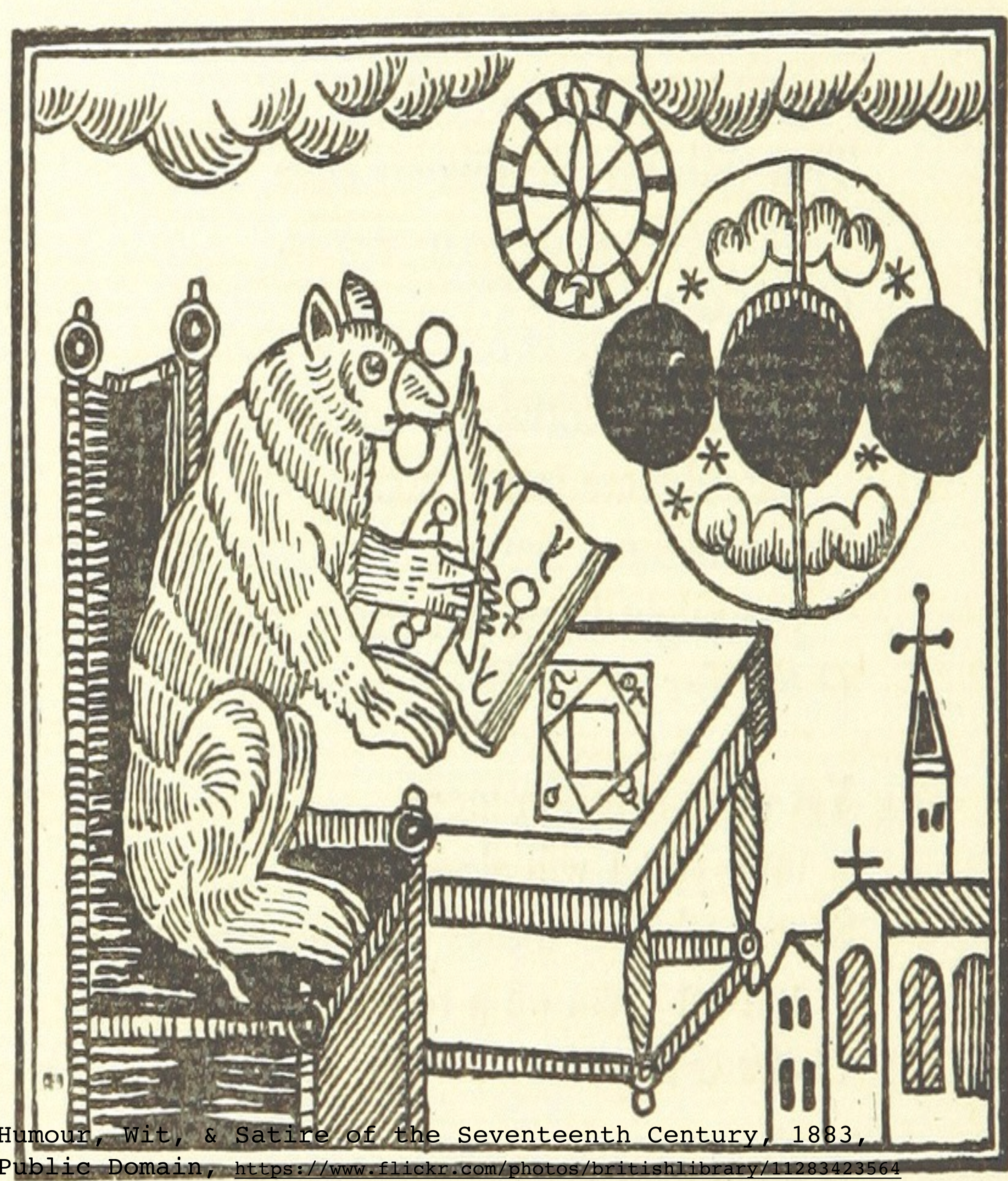


Fotango, 2003

Our strategy is **customer focused**. We will lead a **innovative** effort in the market through our use of **agile techniques** and **open source** to become a leading provider of open standard solutions to the digital world. To develop products of the highest standards we make our clients part of the team. Our final measure of success is the satisfaction of the team at the end of the project.



Eigenberg Fotografie, Nov 2013, CC by 2.0
<https://www.flickr.com/photos/damionroeien/11122262203>



Humour, Wit, & Satire of the Seventeenth Century, 1883,
Public Domain, <https://www.flickr.com/photos/britishlibrary/11283423564>

Business

Level

Abststractions of a

Healthy

Strategy

Common Blahs

digital business, big data, disruptive,
innovative, collaborative, competitive
advantage, ecosystem, open source,
networked, efficiency, learning
organisation, social
media, revolution, cloud based, agile,
secure, internet of things, growth, value,
customer focused, open,
digital first, data leaders, agile, insight
from data, platform,
sustainable, revolution, culture.

Blah Template

Our strategy is **[Blah]**. We will lead a **[Blah]** effort of the market through our use of **[Blah]** and **[Blah]** to build a **[Blah]**. By being both **[Blah]** and **[Blah]**, our **[Blah]** approach will drive **[Bah]** throughout the organisation. Synergies between our **[Blah]** and **[Blah]** will enable us to capture the upside by becoming **[Blah]** in a **[Blah]** world. These transformations combined with **[Blah]** due to our **[Blah]** will create a **[Blah]** through **[Blah]** and **[Blah]**.

Blahs
+
Blah template
=
auto generate
64 strategies

Strategy 1 / 64

Our strategy is **customer focused**. We will lead a **disruptive** effort of the market through our use of **innovative social media** and **big data** to build a **collaborative cloud based ecosystem**. By being both **digital first** and **agile**, our **open** approach will drive **efficiency** throughout the organisation.

Synergies between our **culture revolution** and **networked learning organisation** will enable us to capture the upside by becoming **data leaders** in a **digital business** world.

Strategy 2 / 64

Our strategy is **innovative digital business**. We will lead a **growth** effort of the market through our use of **customer focused competitive advantage** and **disruptive social media** to build a **collaborative revolution**. By being both **data leaders** and **cloud based**, our **ecosystem** approach will drive **insight from data** throughout the organisation. Synergies between our **platform** and **open culture** will enable us to capture the upside by becoming **digital first** in a **networked** world.

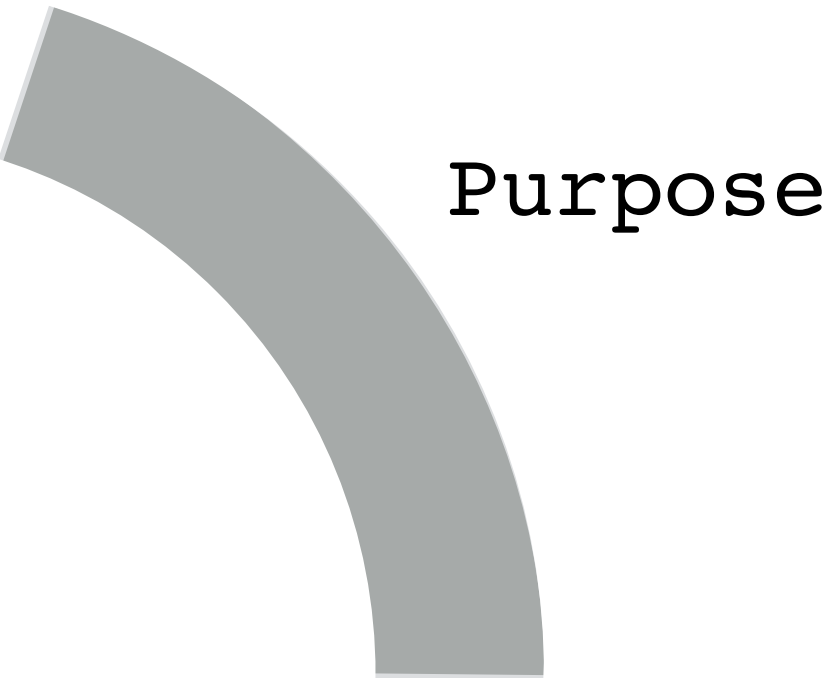
1. This is the exact wording from our business plan.

1. This is the exact wording from our business plan.
2. I've seen two of these used already.

1. This is the exact wording from our business plan.
2. I've seen two of these used already.
3. Are you for hire?

Our strategy is collaborative. We will lead an open effort of the market through our use of big data and social media to build a digital business. By being both disruptive and agile, our networked approach will drive internet of things throughout the organization. Synergies between our growth and insight from data will enable us to capture the upside by becoming sustainable in an innovative world. These transformations combined with learning organization due to our data leaders will create a platform through revolution and leaders.

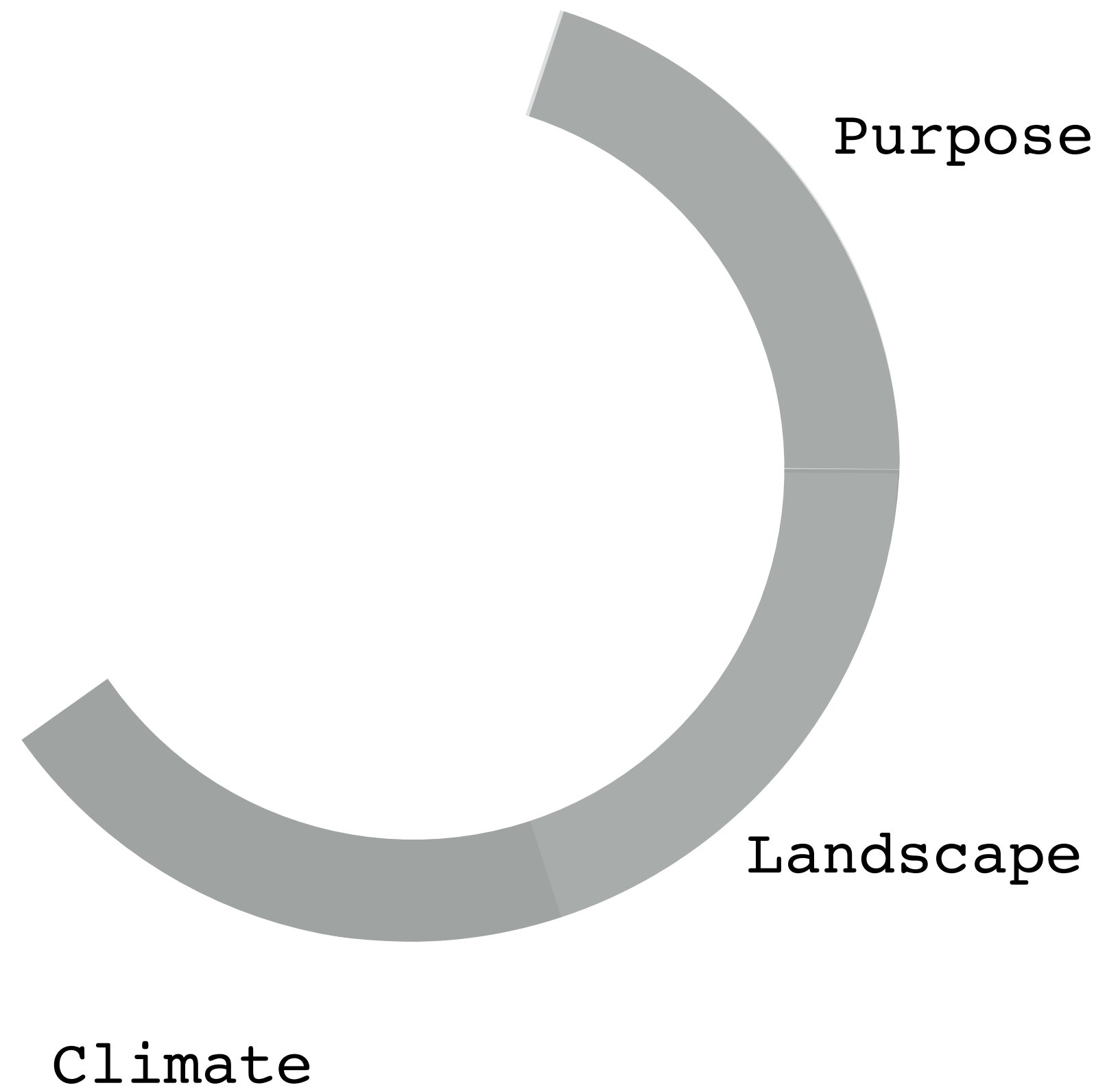




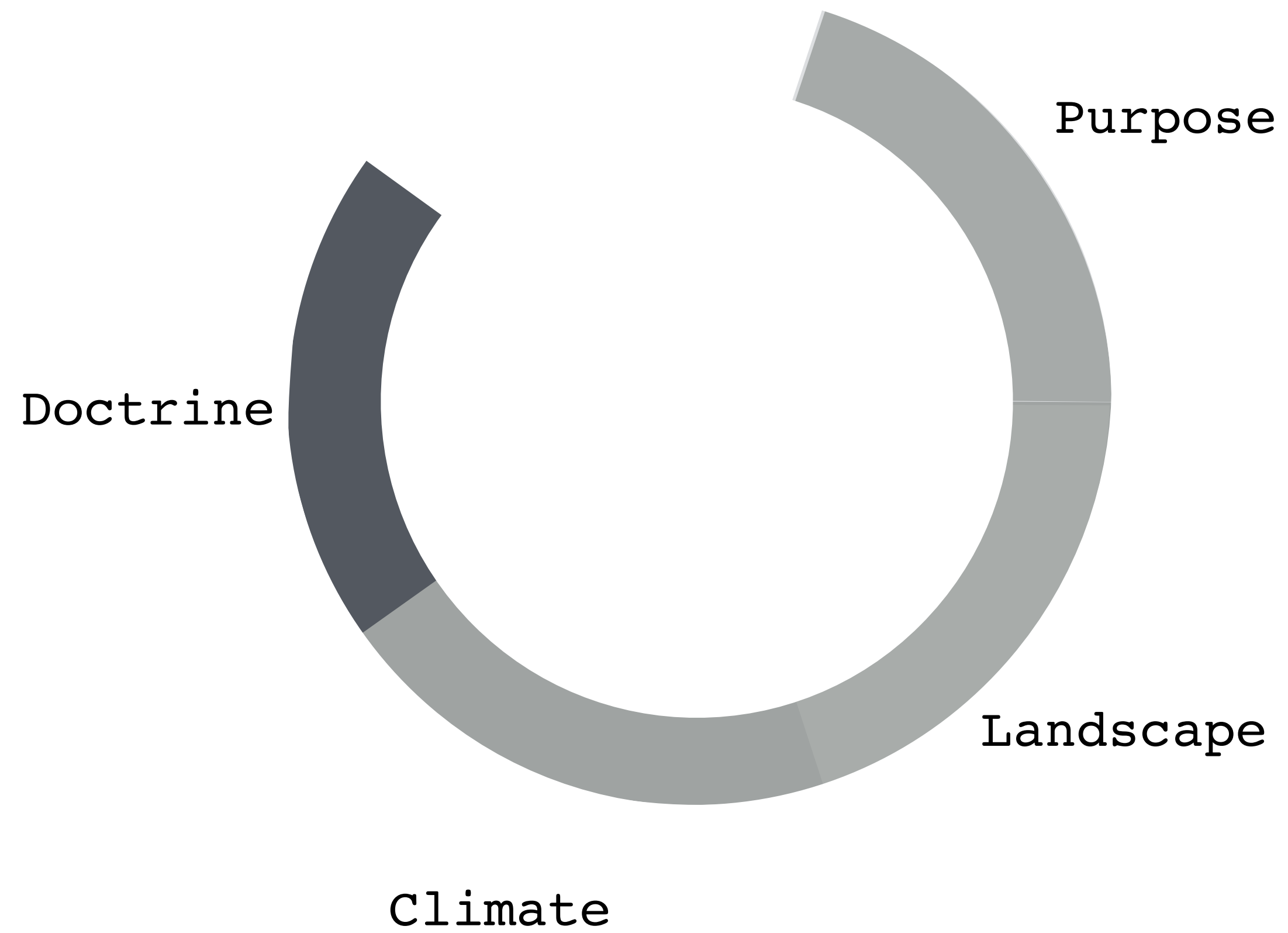
The Strategy Cycle
Sun Tzu's five factors



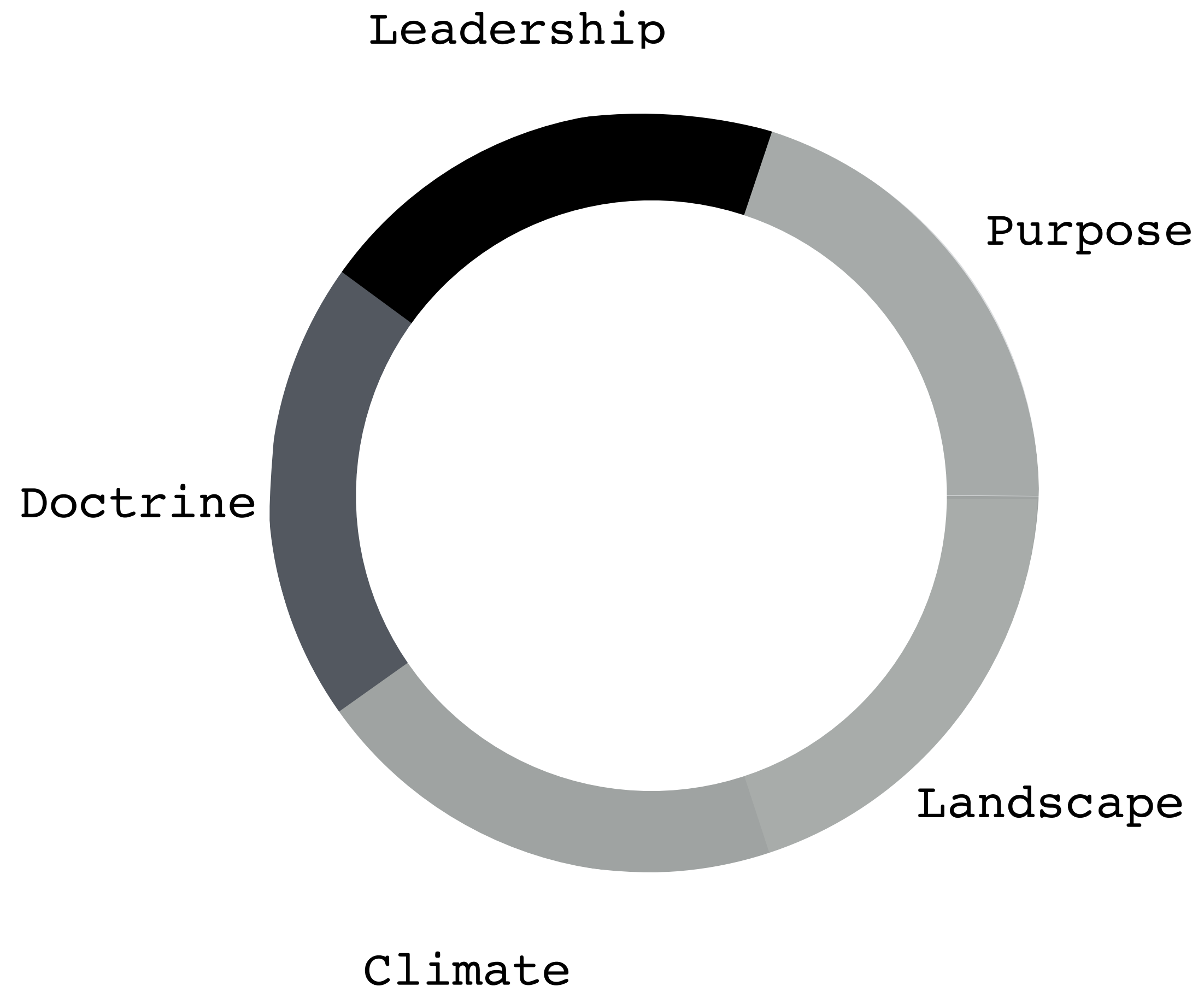
The Strategy Cycle
Sun Tzu's five factors



The Strategy Cycle
Sun Tzu's five factors



The Strategy Cycle
Sun Tzu's five factors

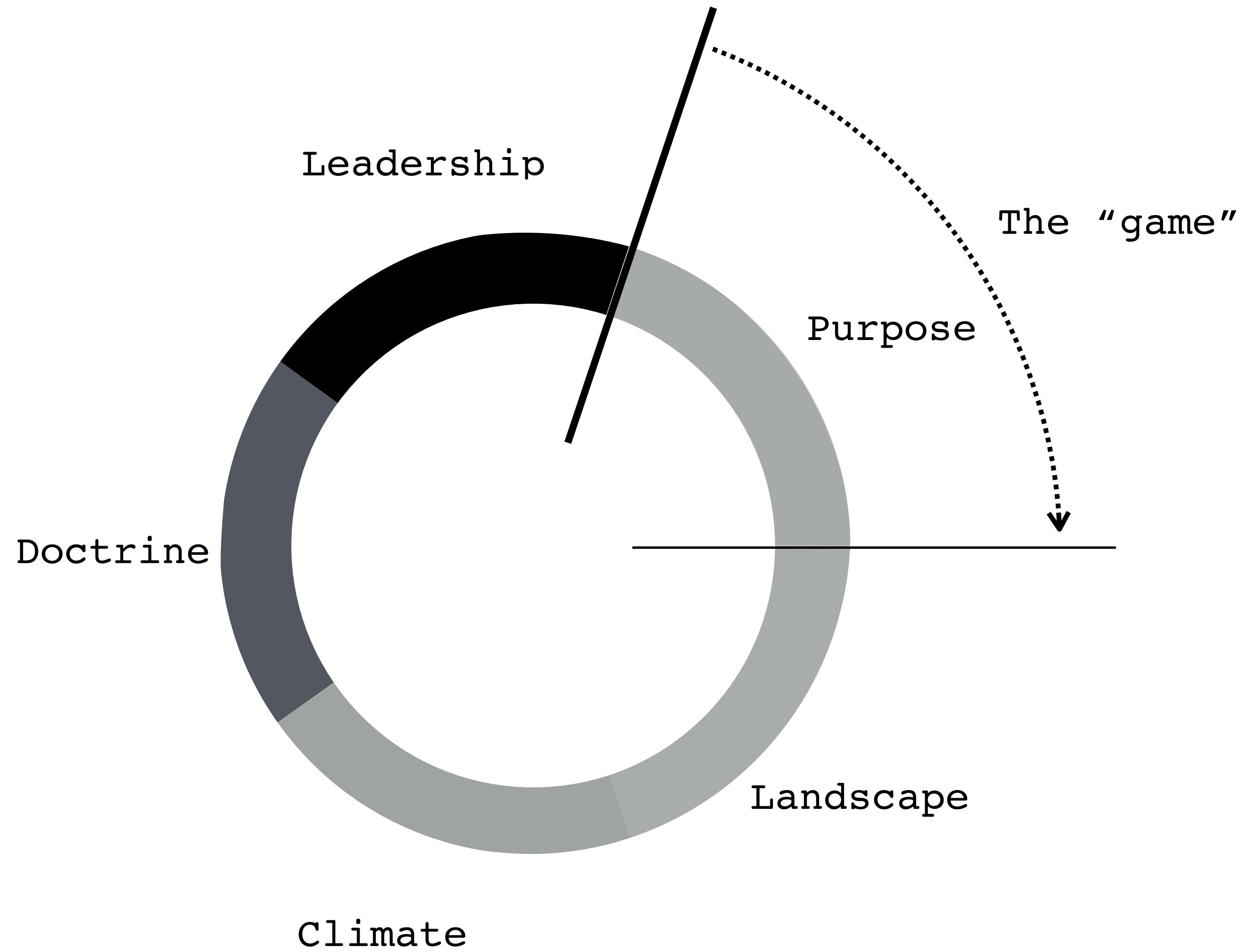


The Strategy Cycle
Sun Tzu's five factors

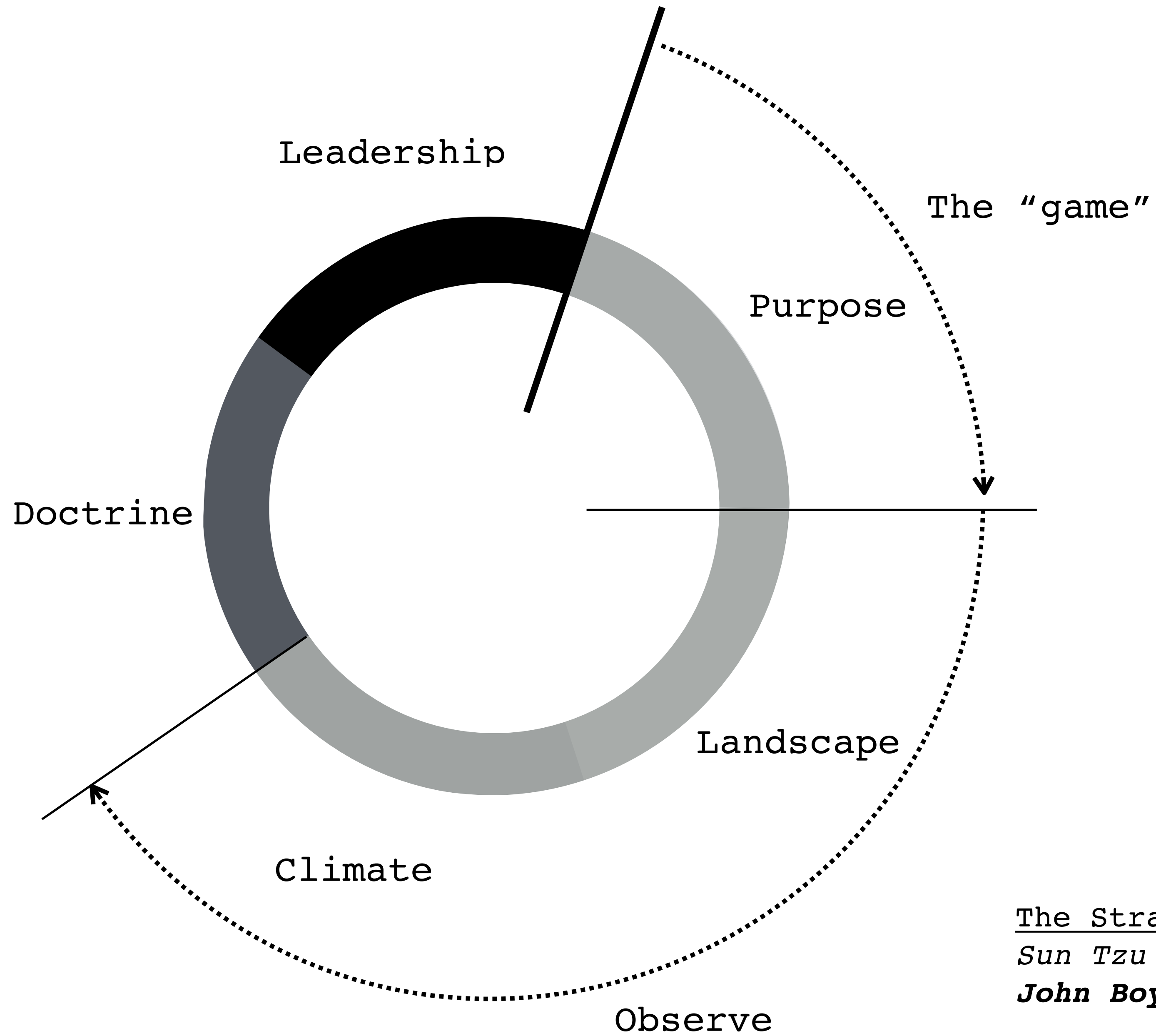


John Boyd, USAF

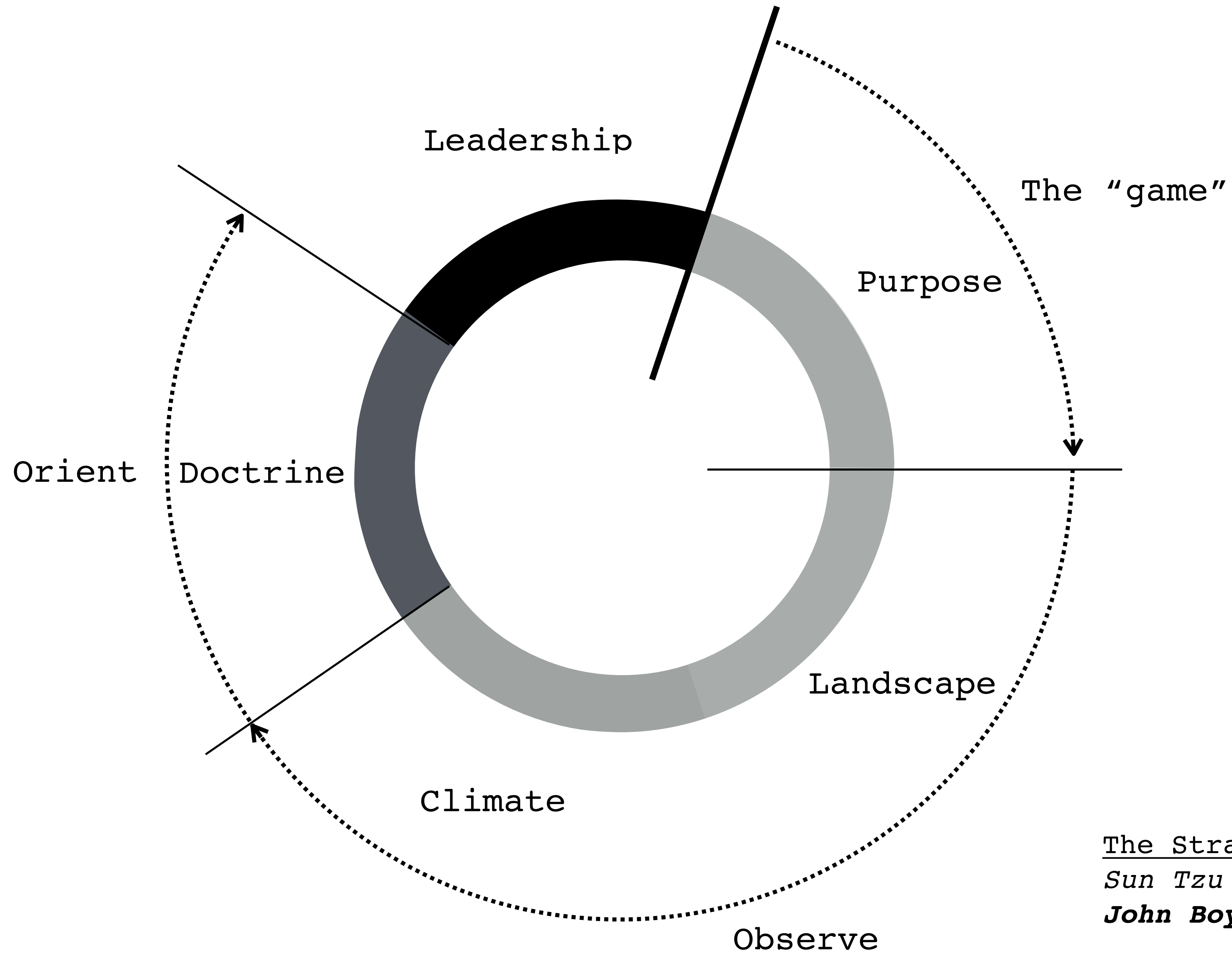
Public Domain, US Gov, 2012



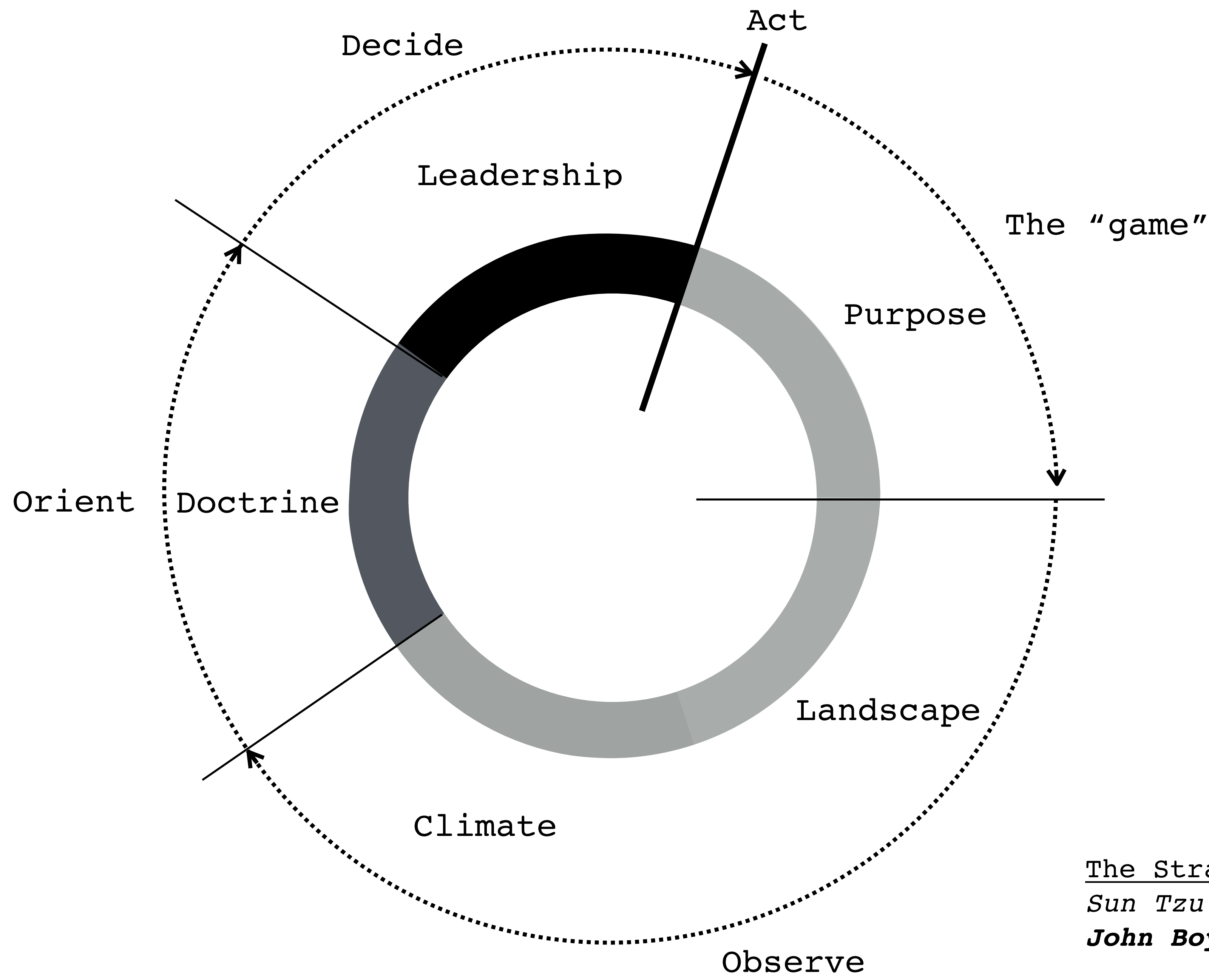
The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop



The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop

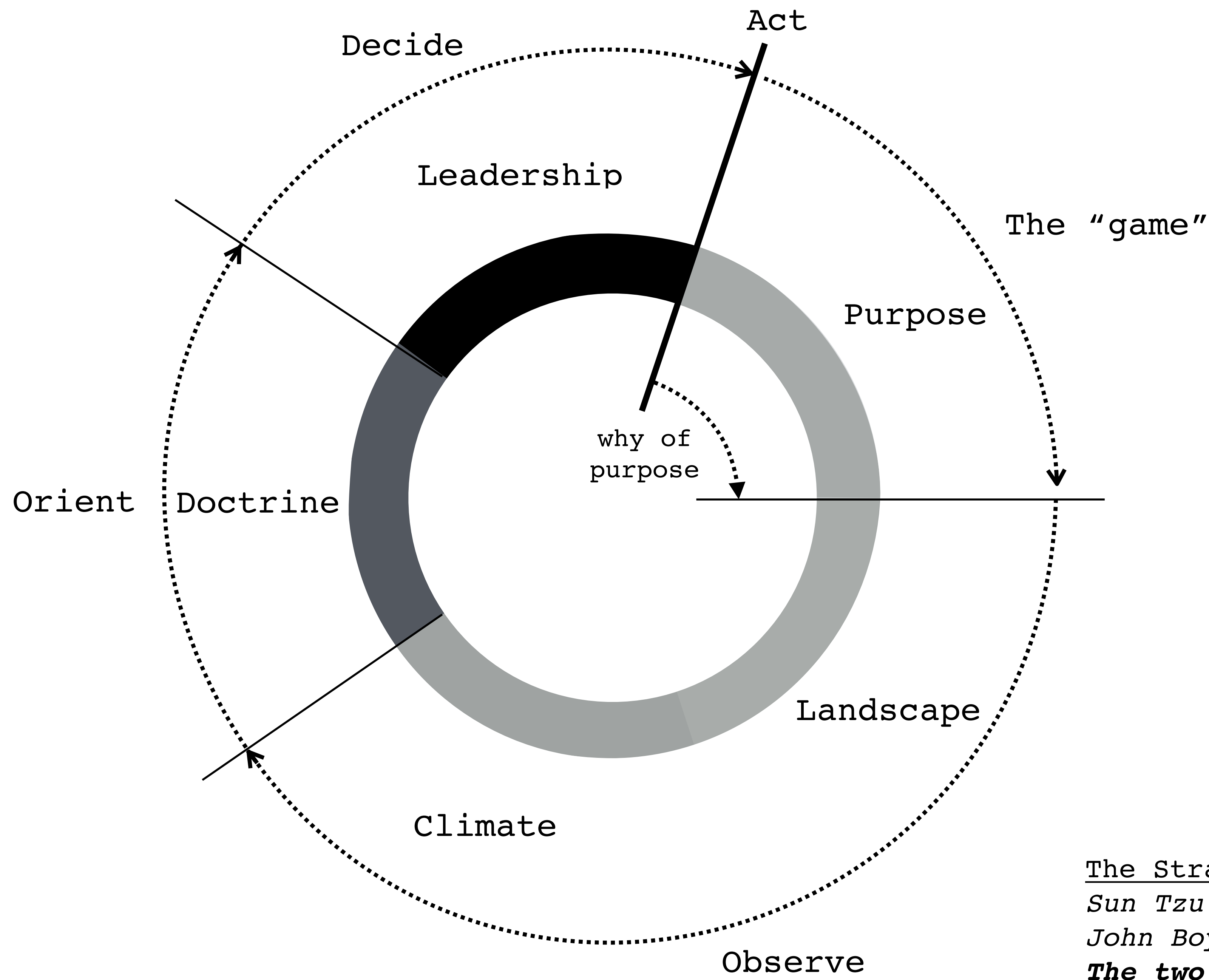


The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop

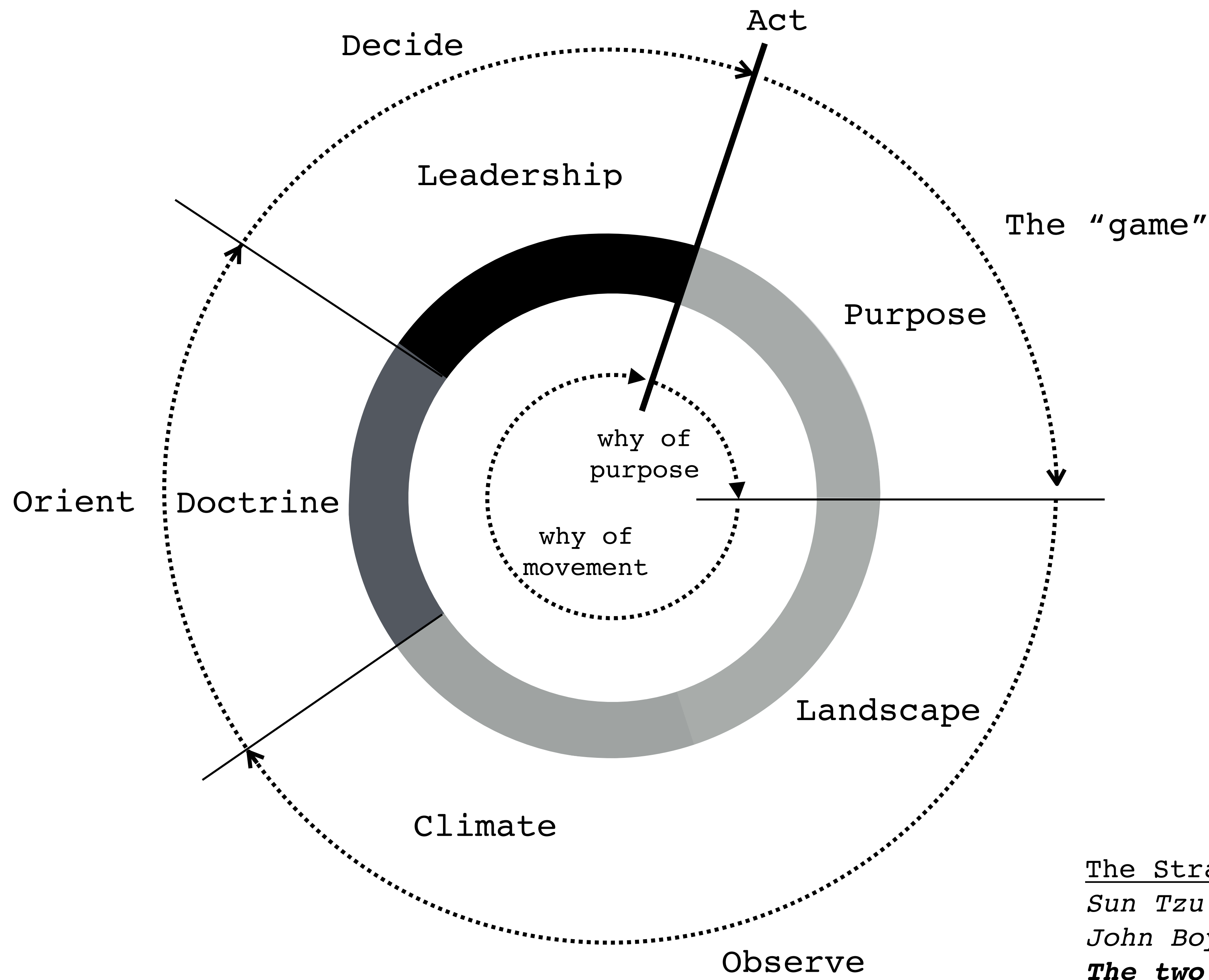


The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop

Importance of why?

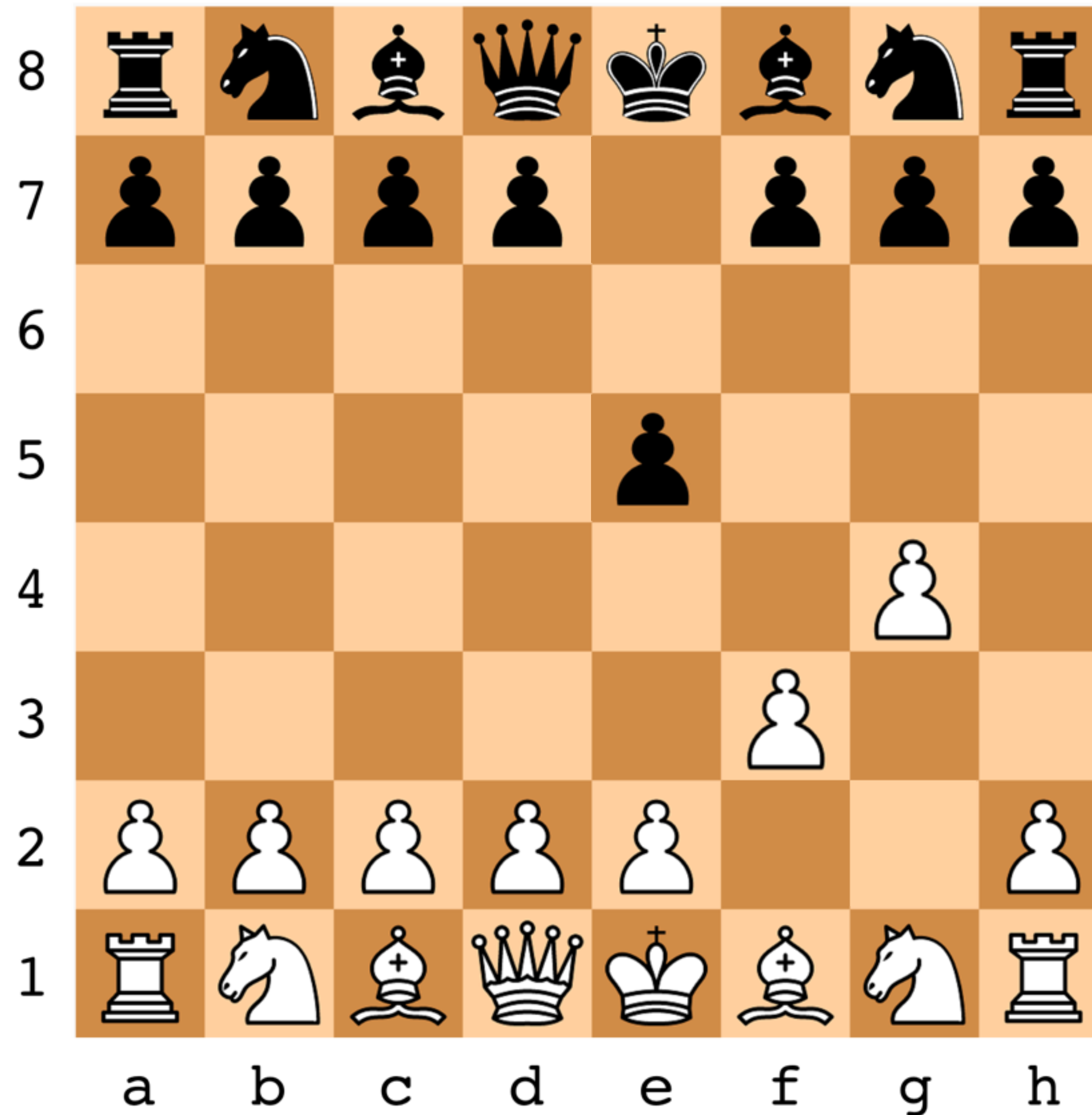


The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop
The two types of why

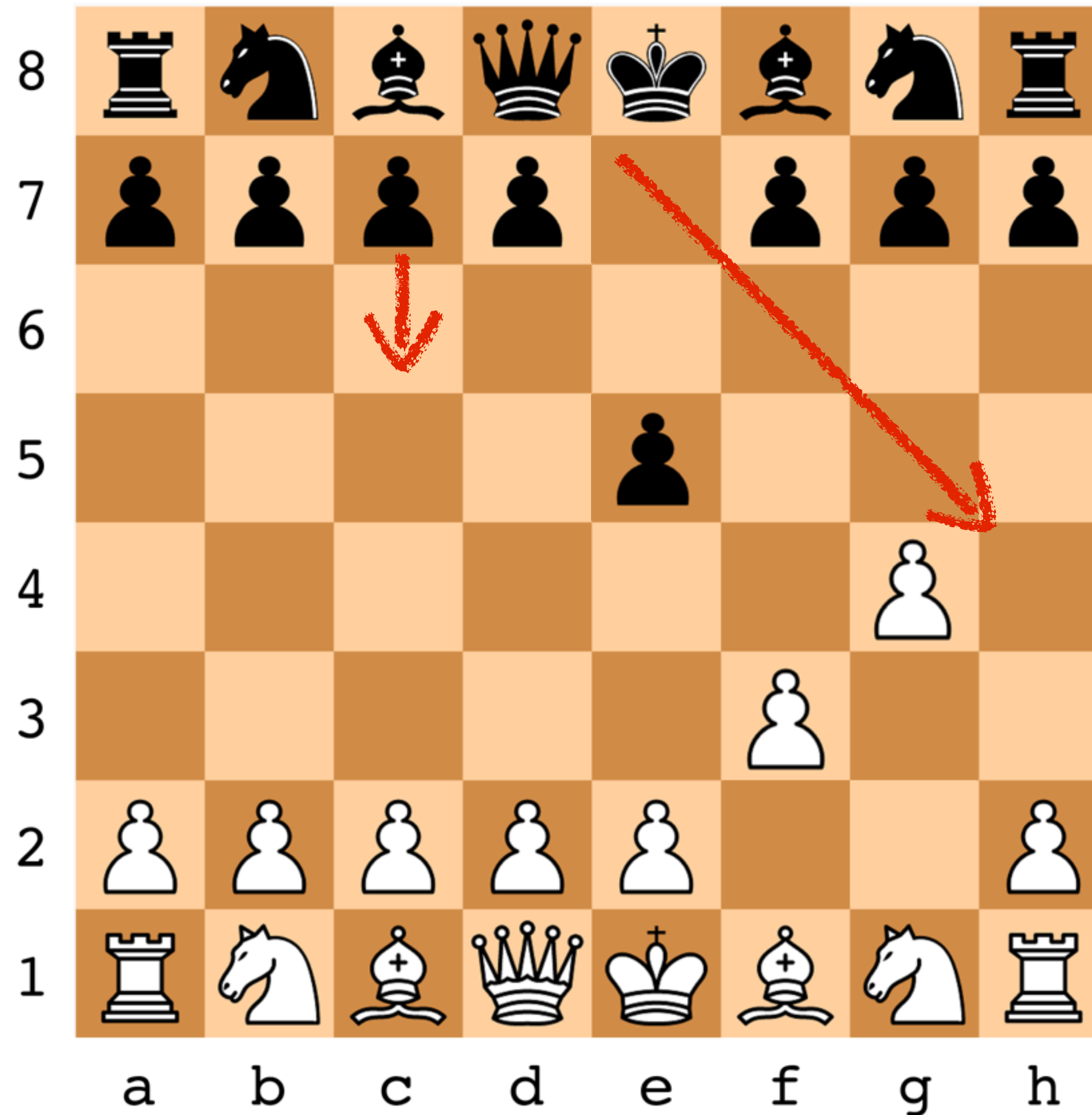


The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop
The two types of why

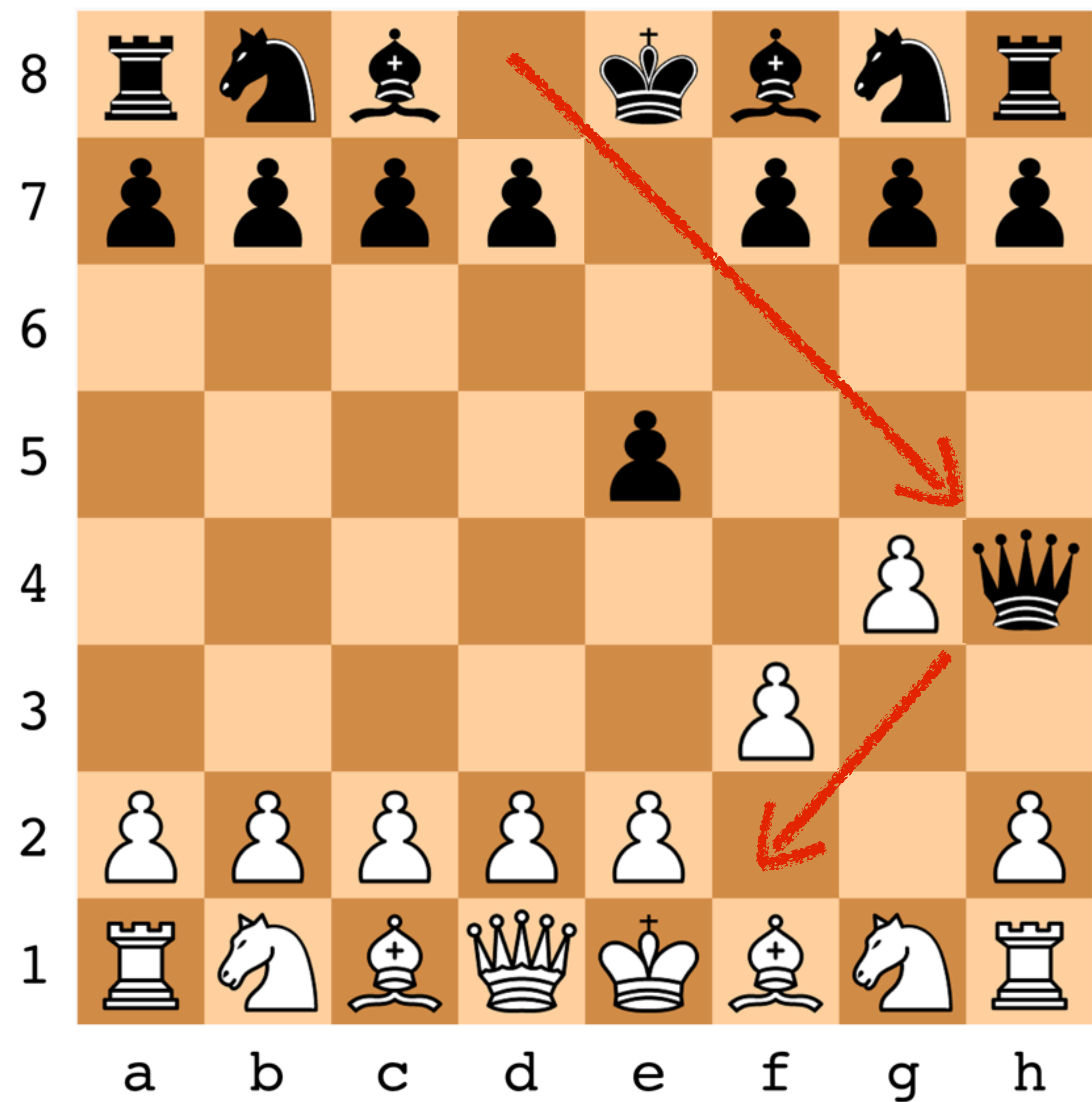
Why of purpose = To Win!



Why of movement = here or there?



Movement = LEARNING



Checkmate



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Gifts Gallery

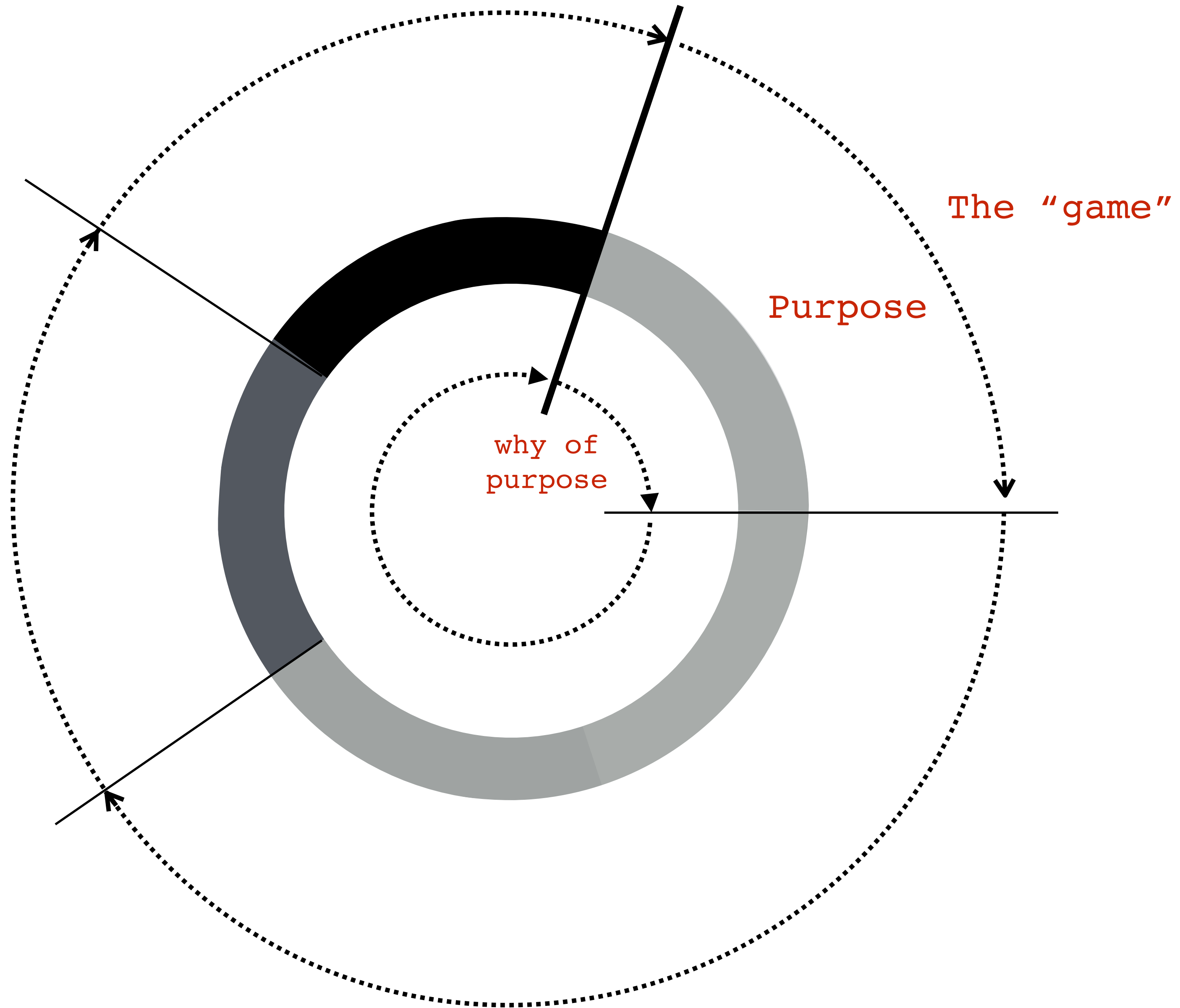
Turn your photos into great gifts!

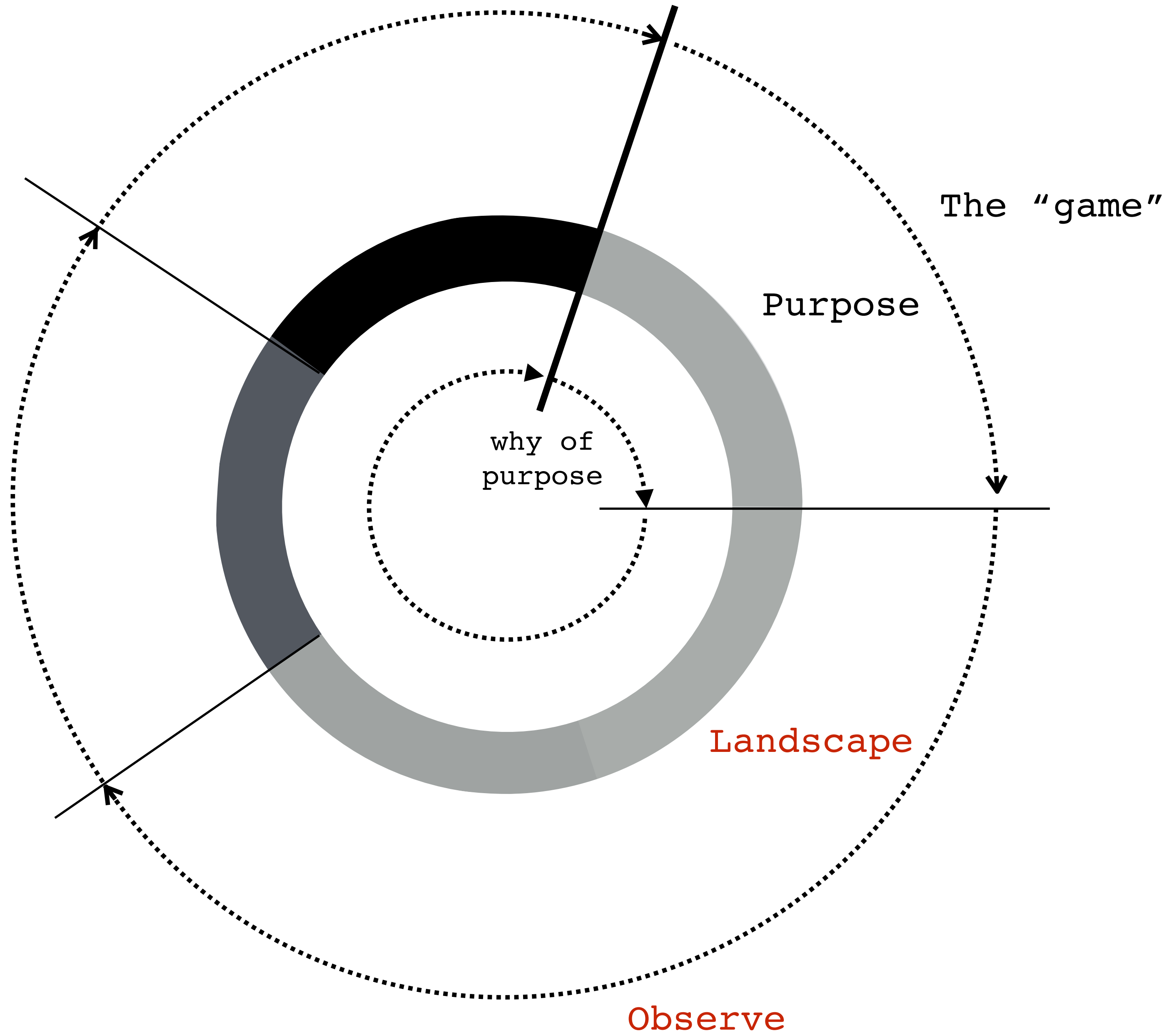


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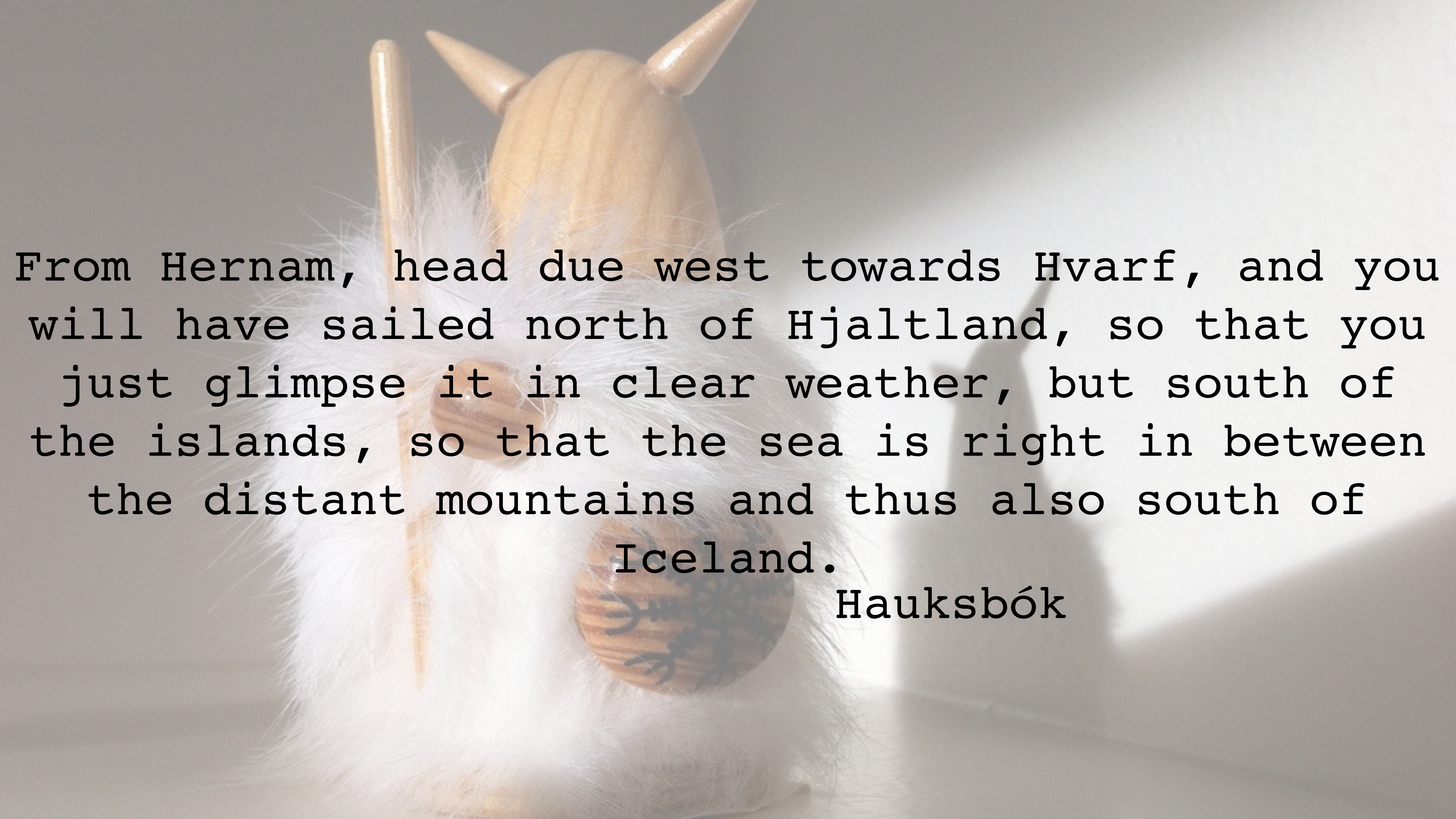






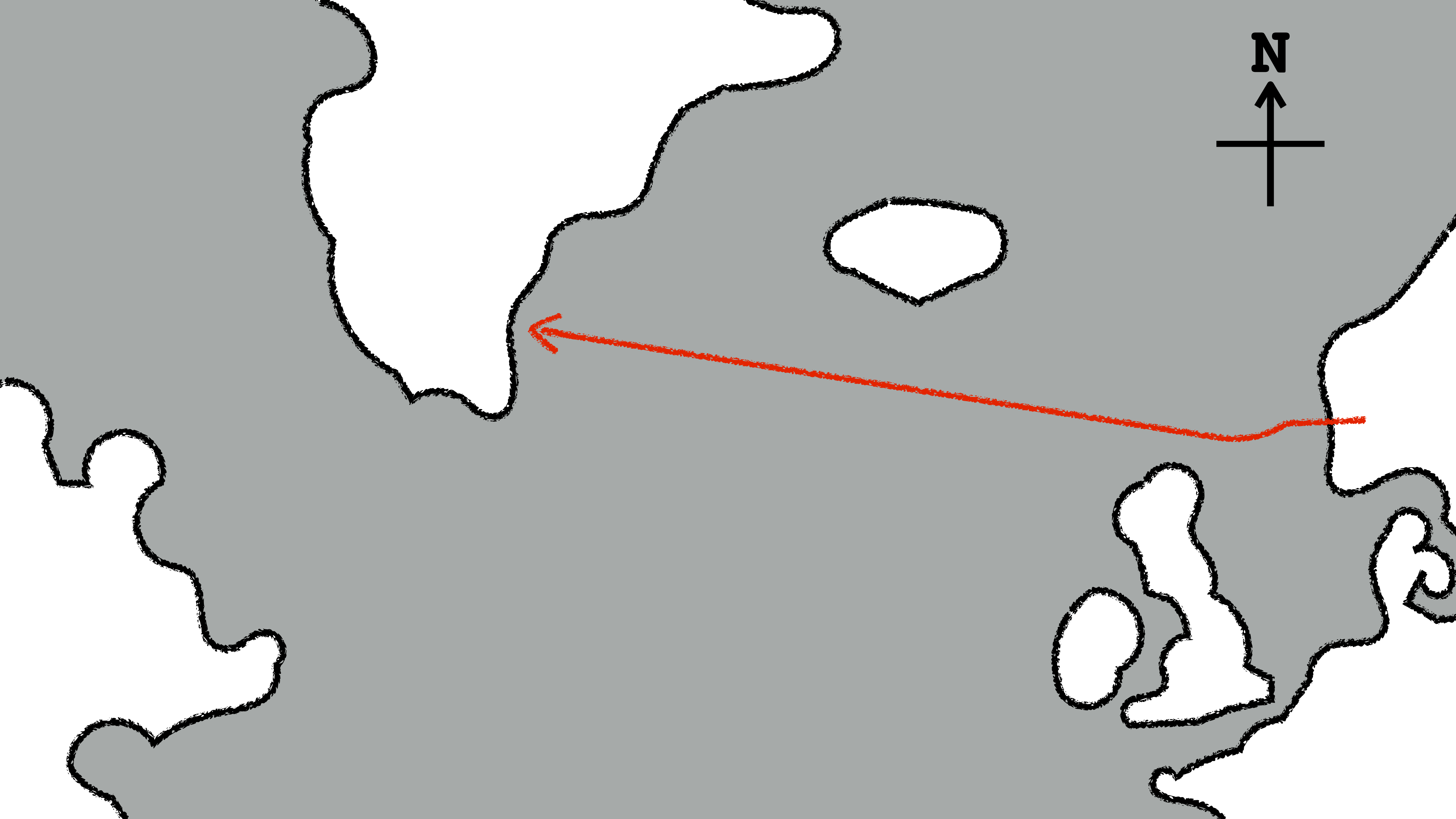
Vikings
Chess
Themistocles



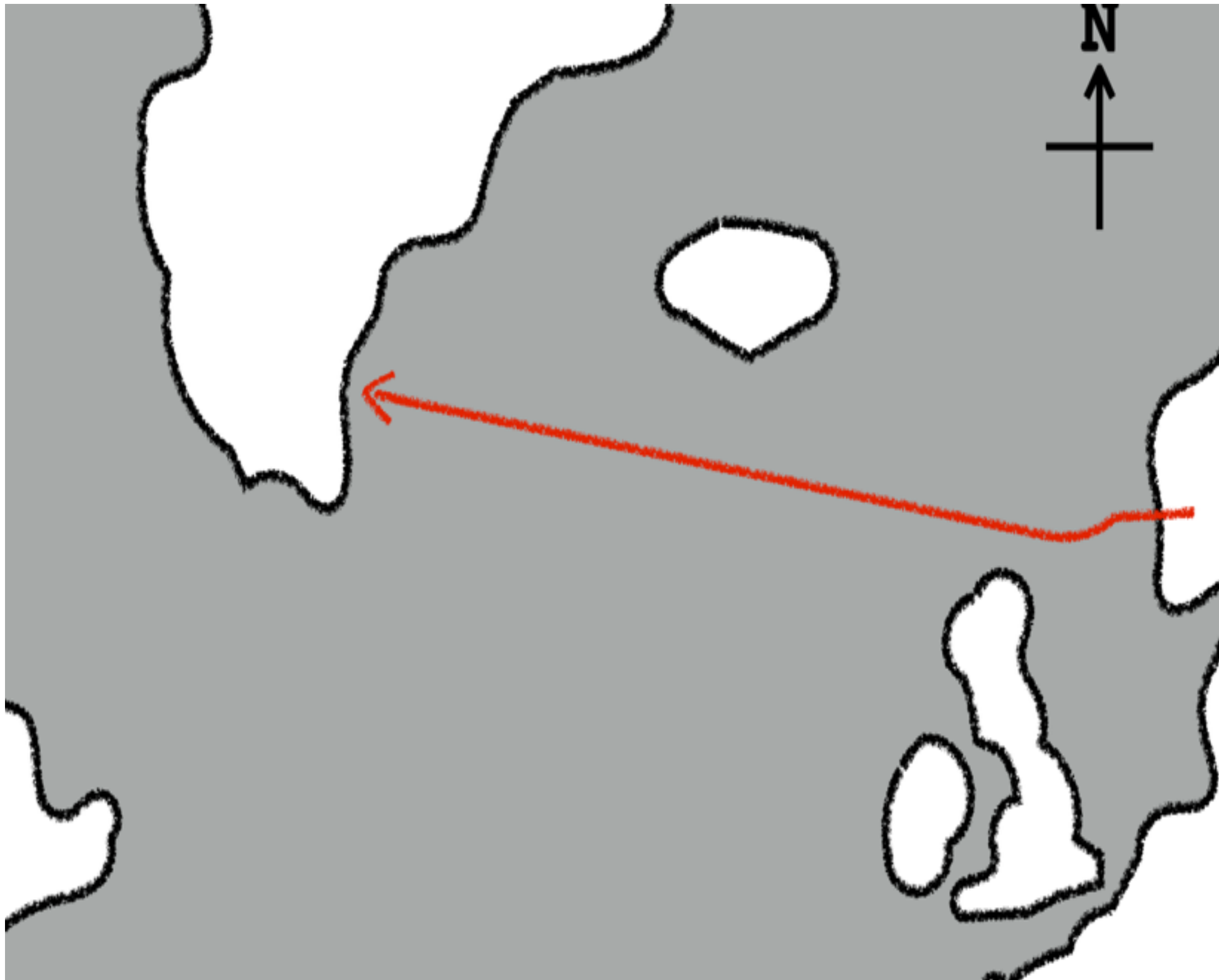


From Hernam, head due west towards Hvarf, and you will have sailed north of Hjaltland, so that you just glimpse it in clear weather, but south of the islands, so that the sea is right in between the distant mountains and thus also south of Iceland.

Hauksbók



What would you use to navigate?



visual map

west towards Hvarf, and
you will have sailed
north of Hjaltland, so
that you just glimpse it
in clear weather, but
south of the islands, so
that the sea is right in
between the distant
mountains and thus also
south of Iceland.

verbal story







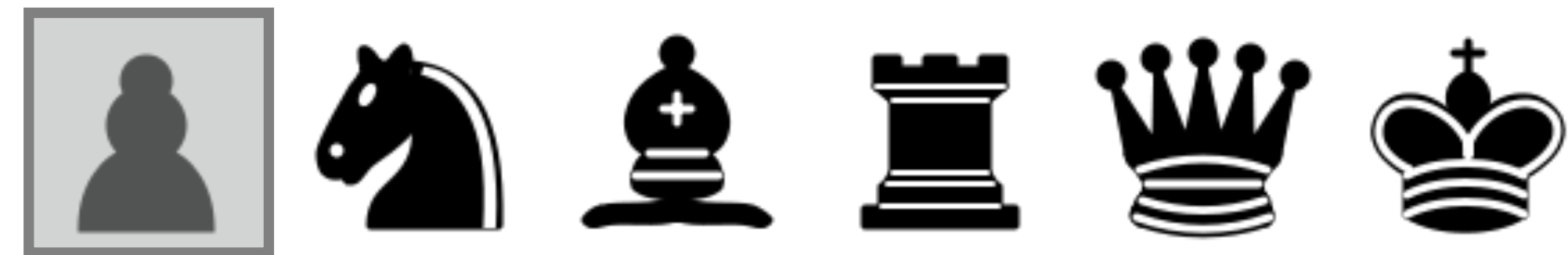
Pawn (w)



Pawn (w)



Pawn (w), Pawn (b)



Pawn (w), Pawn (b)



Pawn (w), Pawn (b), Pawn (w)



Pawn (w), Pawn (b), Pawn (w)



Pawn (w), Pawn (b), Pawn (w), Queen (b)



Pawn (w), Pawn (b), Pawn (w), Queen (b)

Pawn(w), Pawn(b), Pawn(w), Queen(b), Pawn(w), Queen(b), Bishop(w), Knight(b), Queen(w), Pawn(b), Rook(w), Bishop(b), Knight(w), Pawn(b), Queen(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Bishop(b), Queen(w), King(b), Pawn(w), Bishop(b), Rook(w), Pawn (b), Queen(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Pawn(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Knight(b), Pawn(w), Pawn(b), Pawn(w), Pawn(b), Queen(w), King(b), Queen(w), Pawn(b), Knight(w), Knight(b), Knight(w), Pawn(b), Rook(w), Rook(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Queen(w), Knight(w), Pawn(b), Rook(w), Rook(b), Rook(w), Knight(b), Pawn(w), Pawn(b), Queen(w), Pawn(b), Queen(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Pawn(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Knight(b), Pawn(w), King(b), Pawn(w), Bishop(b), Rook(w), Pawn (b), Queen(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Queen(w), Knight(b), Pawn(w), Knight(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Pawn(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Knight(b), Pawn(w), Pawn(b), Pawn(w), Pawn(b), Queen(w), King(b), Queen(w), Pawn(b), Knight(w), Knight(b), Knight(w), Pawn(b), Rook(w), Rook(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Queen(w), Pawn(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Knight(b), Knight(w), Pawn(b), Rook(w), Rook(b), Pawn(w), Knight(b), Pawn(w), Pawn(b), Queen(w), Knight(b), King(w), Knight(b), Pawn(w), Queen(b), Knight(w), Pawn(b), Rook(w), Rook(b), Rook(w), Knight(b), Pawn(w), Pawn(b), Queen(w), Pawn(b), Queen(w), Knight(b), Pawn(w), Pawn(b), Knight(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Rook(w), Bishop(b), Pawn(w), Pawn(b), Pawn(w), Knight(b), Pawn(w), Knight(b), Pawn(w), Queen(w) ... **WINS**

How Earlobes Can Signify Leadership Potential

by [Carl Senior](#), [Robin Martin](#), [Michael West](#), and [Rowena M. Yeats](#)

FROM THE NOVEMBER 2011 ISSUE



SAVE



SHARE



COMMENT

0



TEXT SIZE



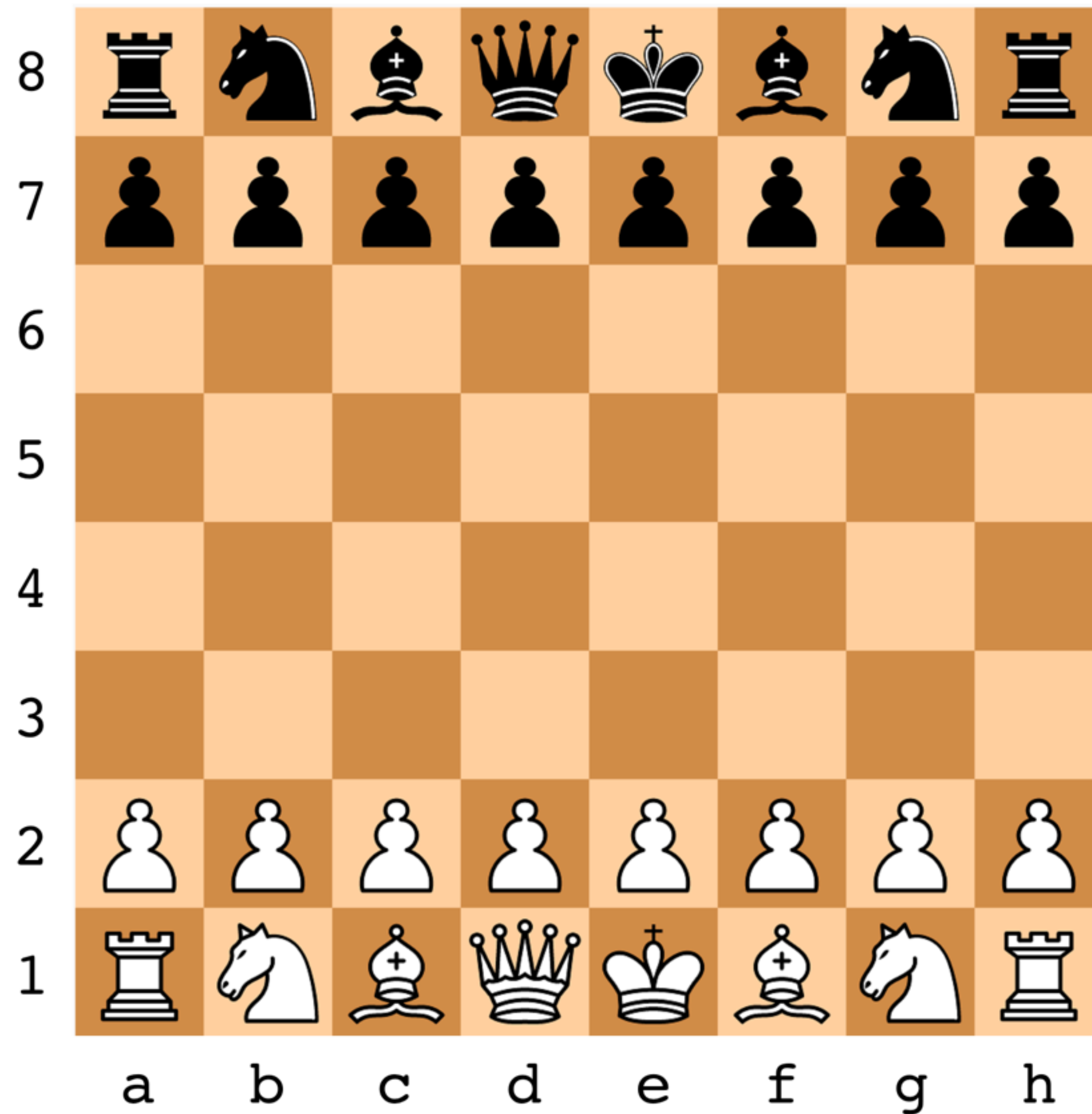
PRINT



BUY COPIES

Evolutionary biologists have learned that people with greater “genetic fitness,” as manifested by a high degree of left-right body symmetry, are not just considered better looking but also tend to be healthier, more intelligent, and more dominant than others. They’re the classic alphas who rise to the top of rigidly hierarchical organizations such as the military.

But [our research](#) shows that people with subtle asymmetries—for example, imbalances in ear or finger length—are often better “transformational” leaders, able to inspire followers to put self-interest aside for the good of the group. Furthermore, teams they lead outperform teams whose leaders have more-symmetrical bodies.





Pawn (w)

8



7



6

5

4

3



2



1



a

b

c

d

e

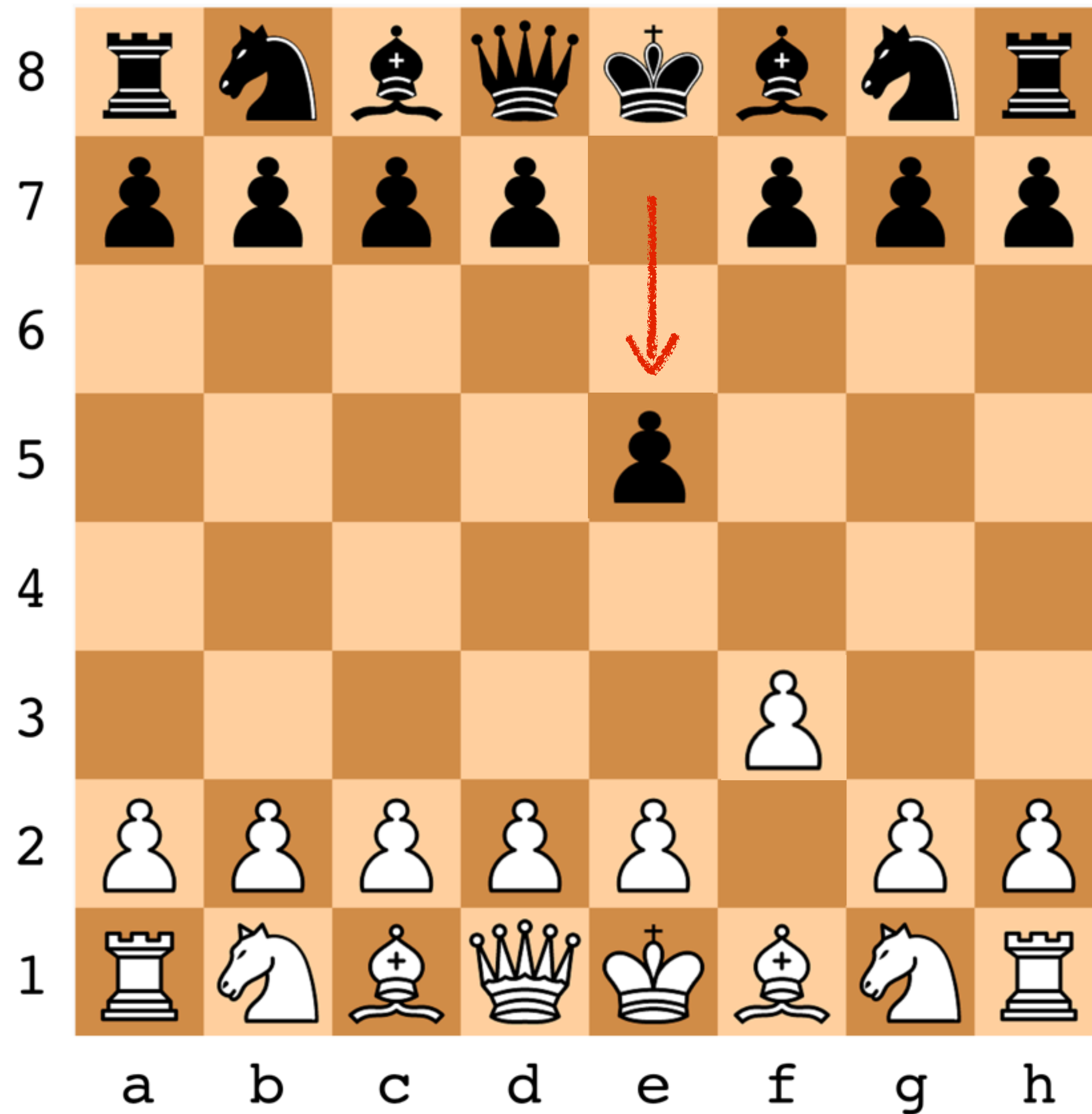
f

g

h

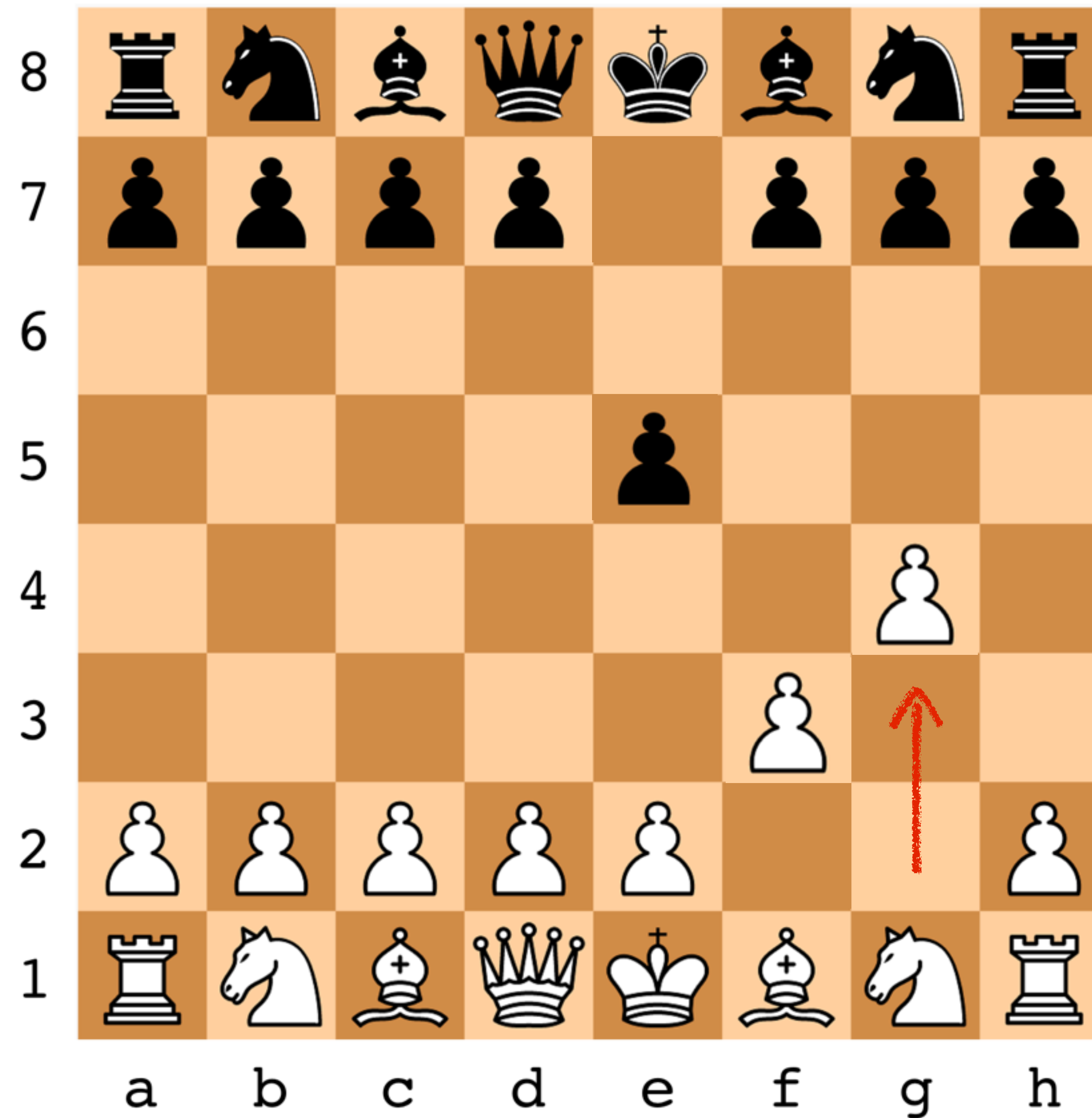


Pawn (w), Pawn (b)



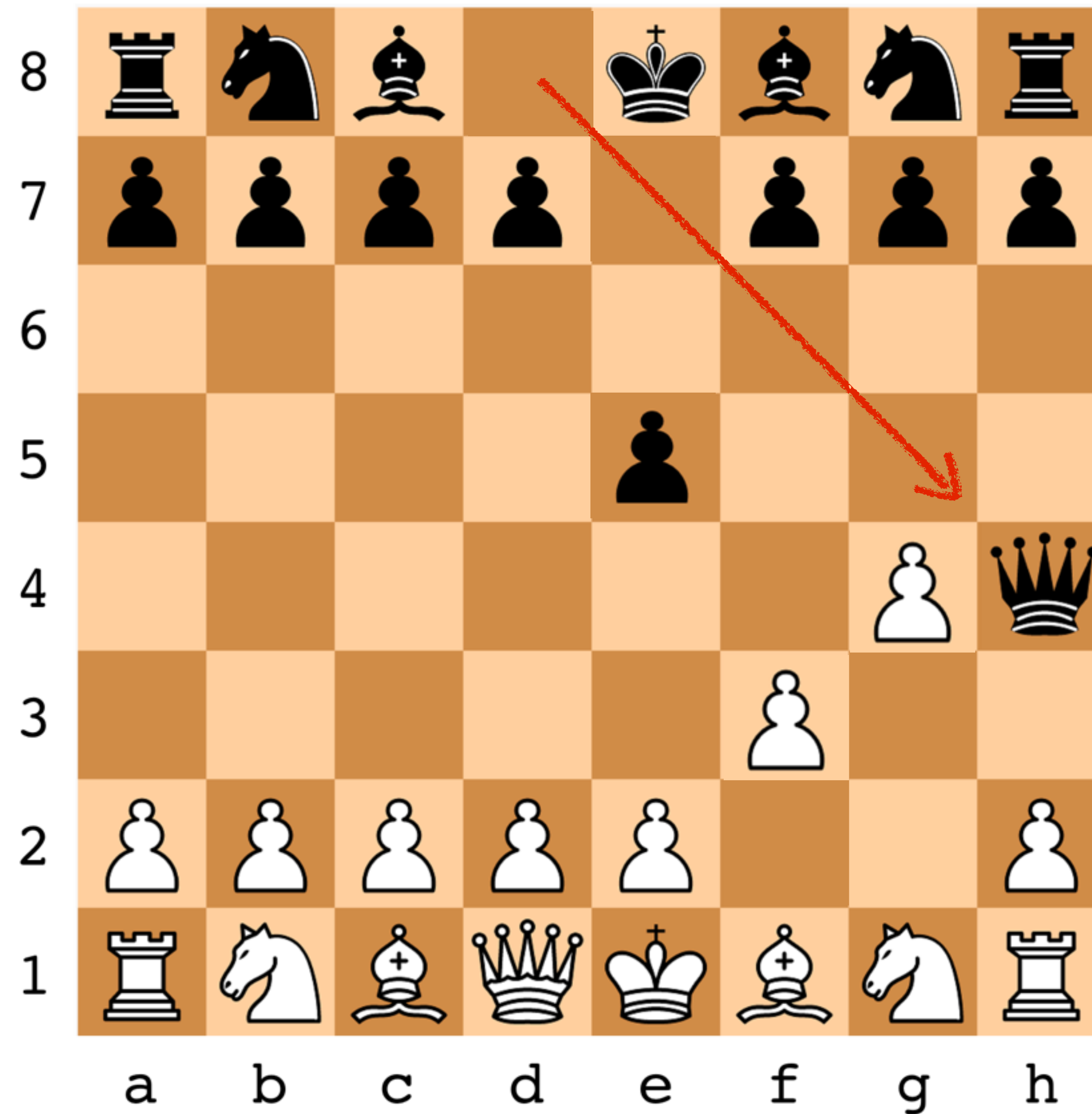


Pawn (w), Pawn (b), Pawn (w)

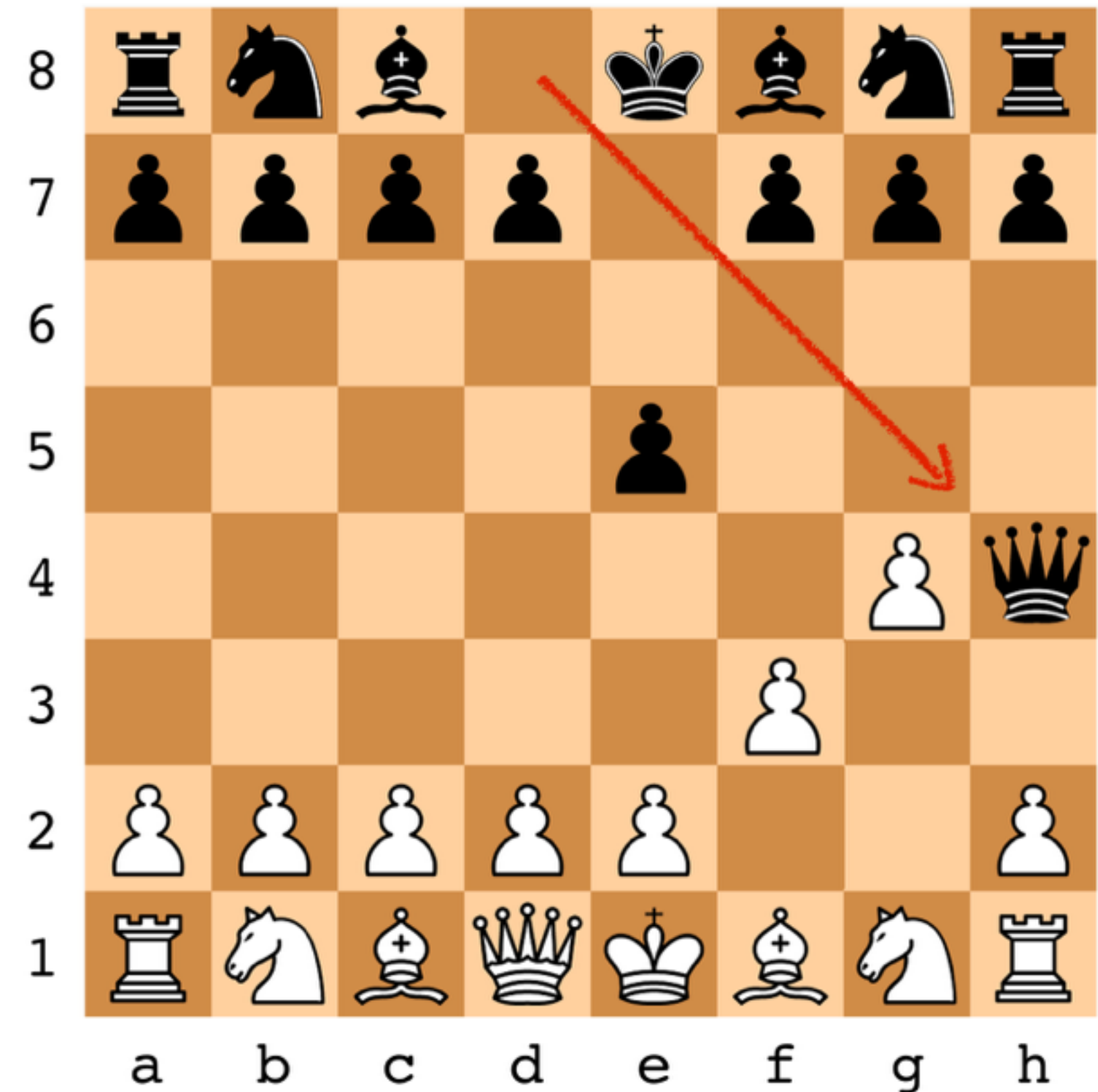




Pawn (w), Pawn (b), Pawn (w), Queen (b)
... LOST.

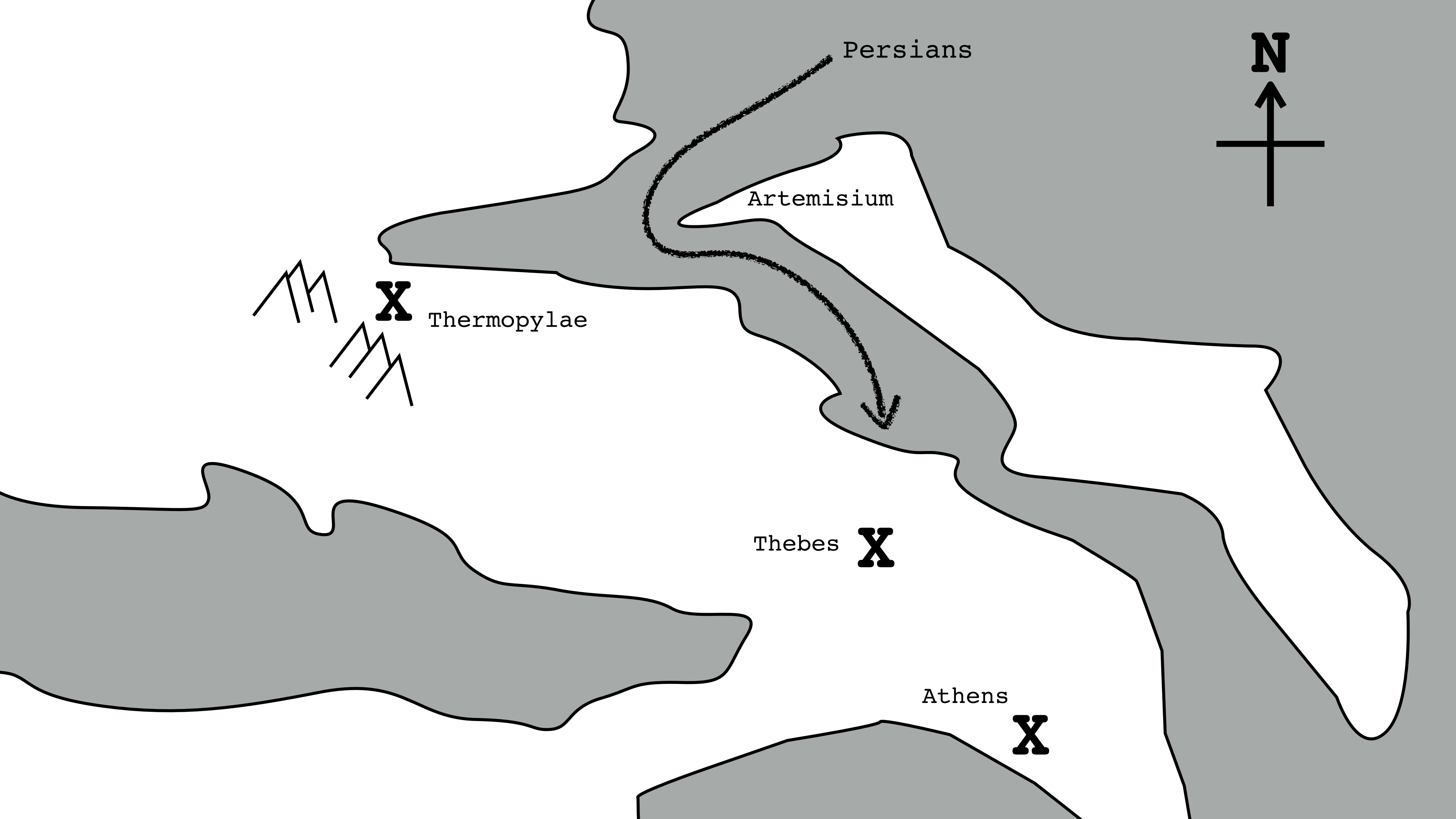


What would you use to learn?

[illegible]

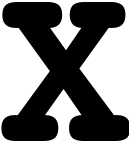
secrets of success

context specific play



Persians

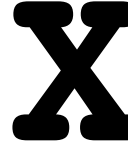
Artemisium



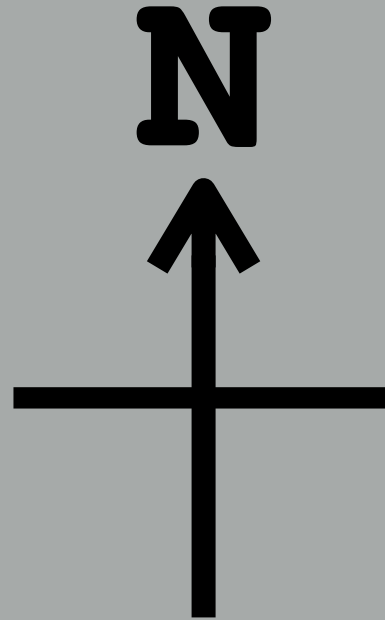
Thermopylae

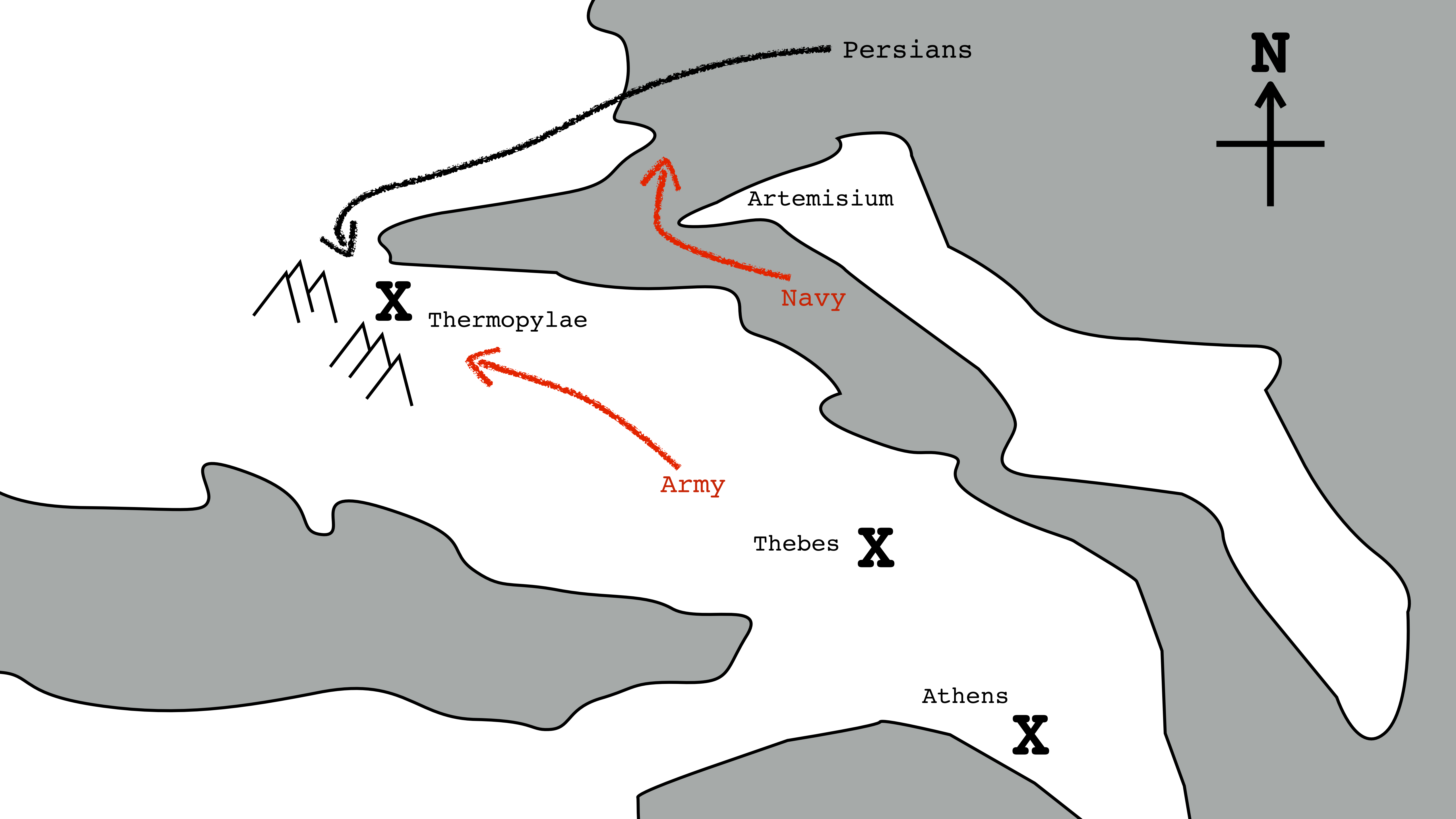


Thebes



Athens





Persians

Artemisium

Navy

Thermopylae

Army

Thebes

Athens

Strengths

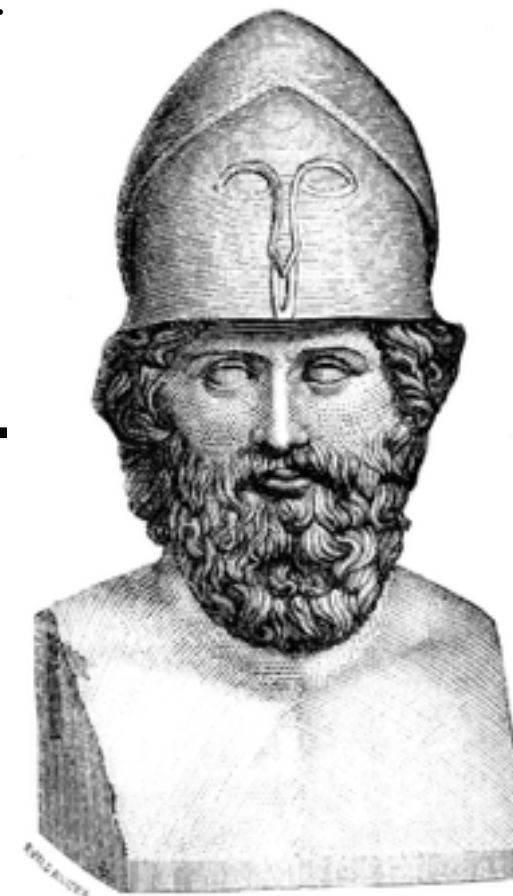
A well trained Spartan army

A high level of motivation
not to become a Persian
slave

Weaknesses

The Ephors might stop the
Spartans turning up

A lot of Persians ARE
turning up



Opportunities

Get rid of the Persians

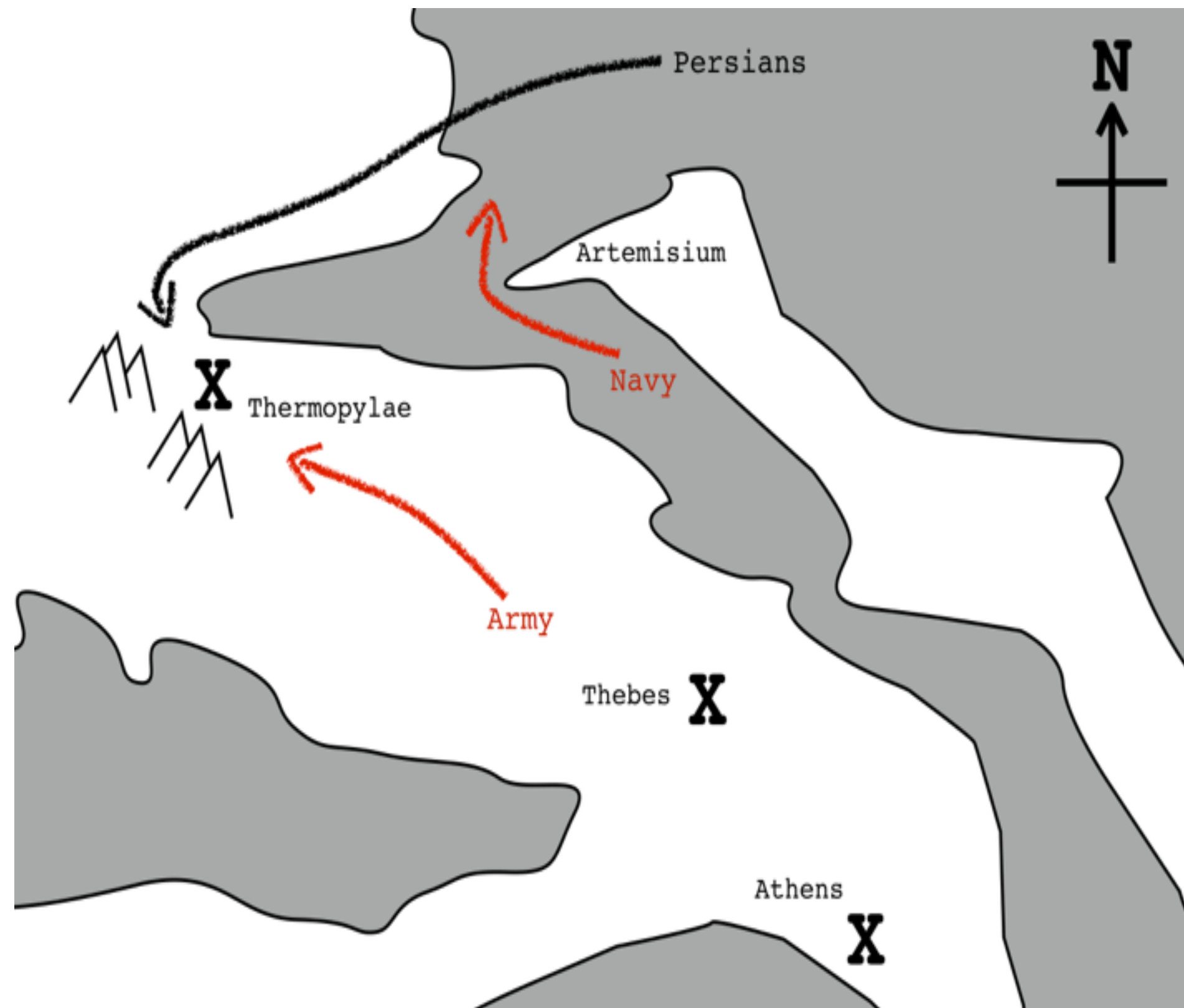
Get rid of the Spartans

Threats

Persians get rid of us


The Oracle says a really
dodgy film might be
produced over 2,000
years later

What would you use to communicate and determine strategy in battle?

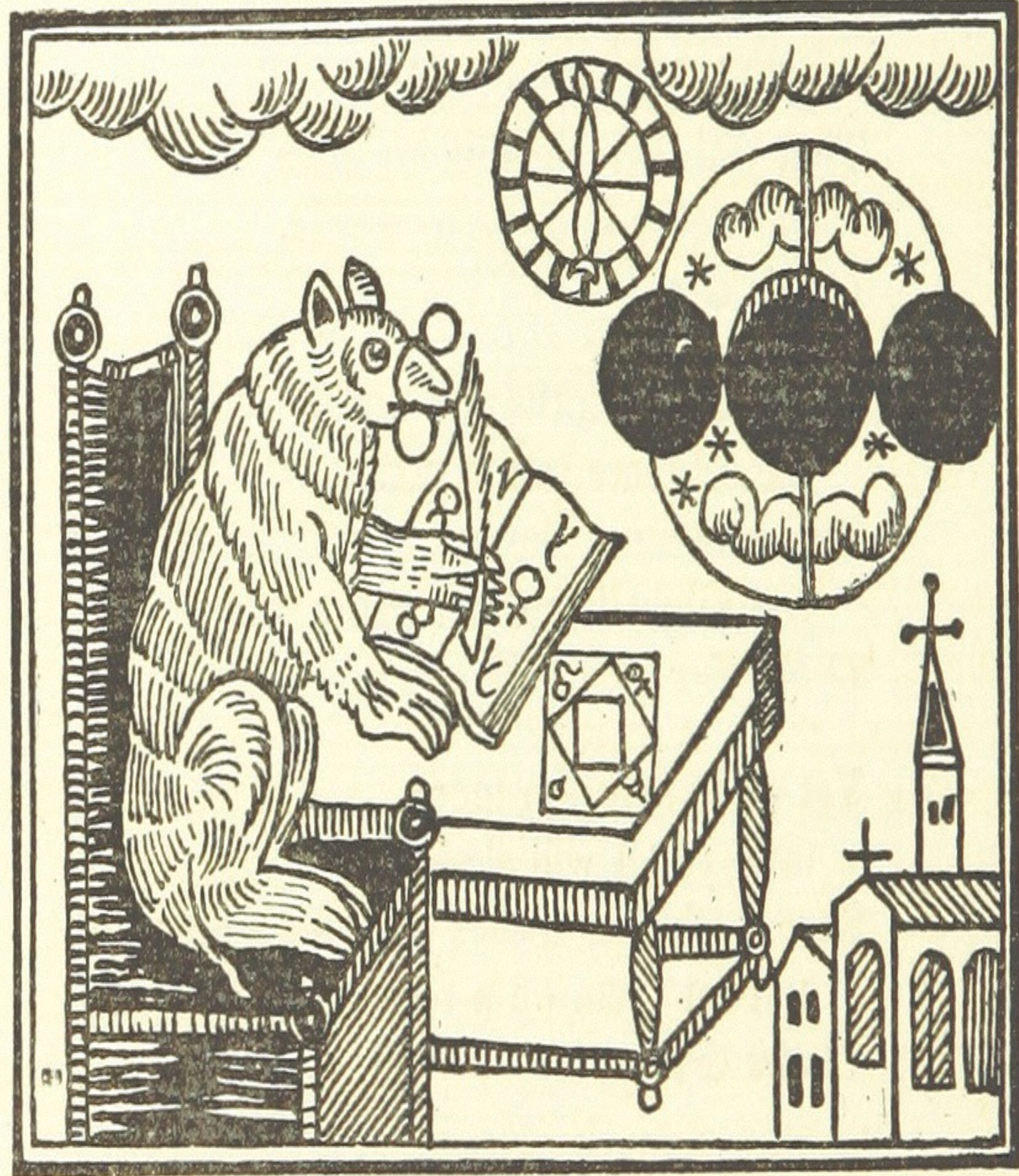


position and movement

Strengths	Weaknesses
<p>A well trained Spartan army</p> <p>A high level of motivation not to become a Persian slave</p>	<p>The Ephors might stop the Spartans turning up</p> <p>A lot of Persians ARE turning up</p>
Opportunities	Threats
<p>Get rid of the Persians</p> <p>Get rid of the Spartans</p>	<p>Persians get rid of us</p> <p>The Oracle says a really dodgy film might be produced over 2,000 years later</p>



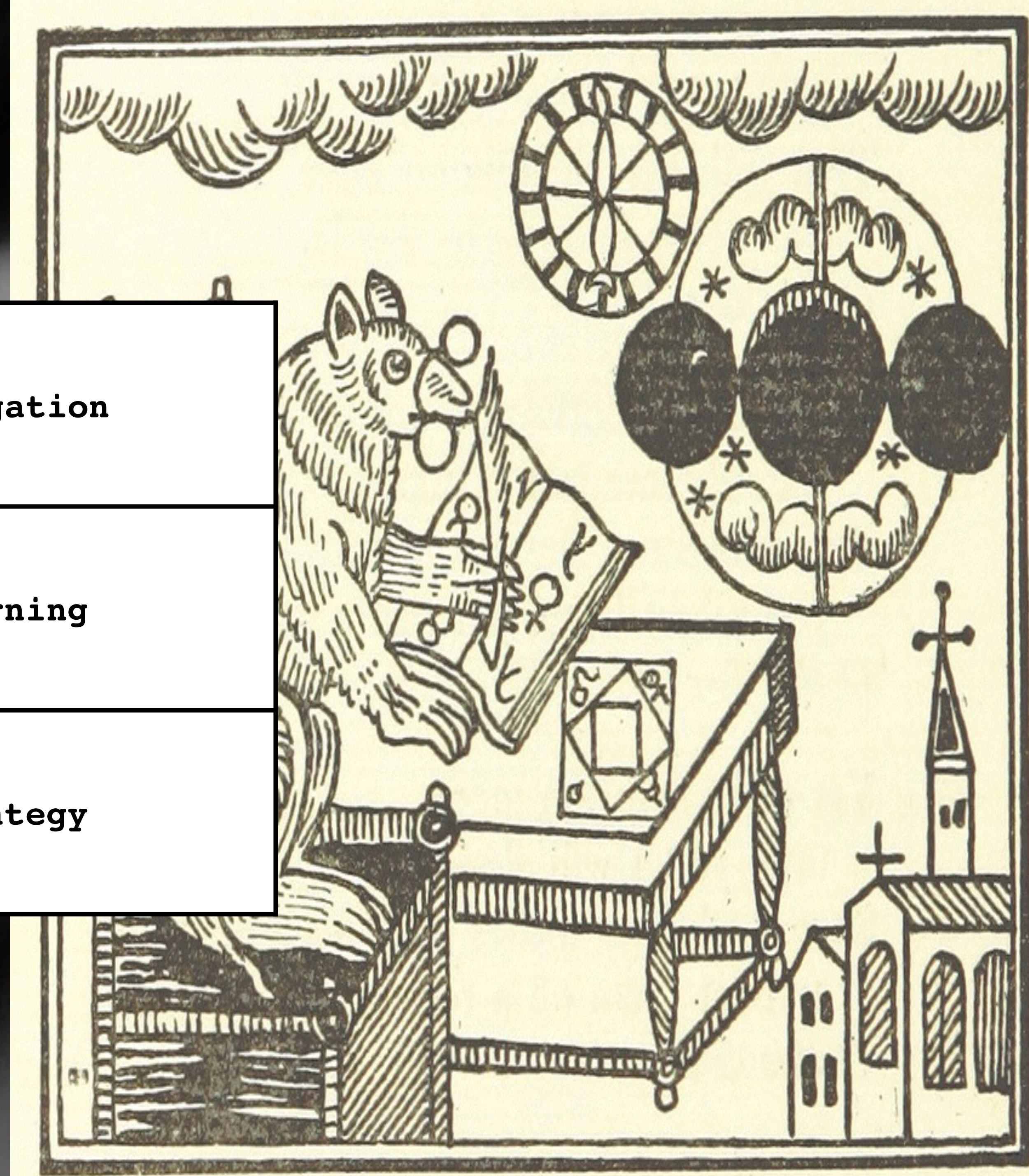
magic framework



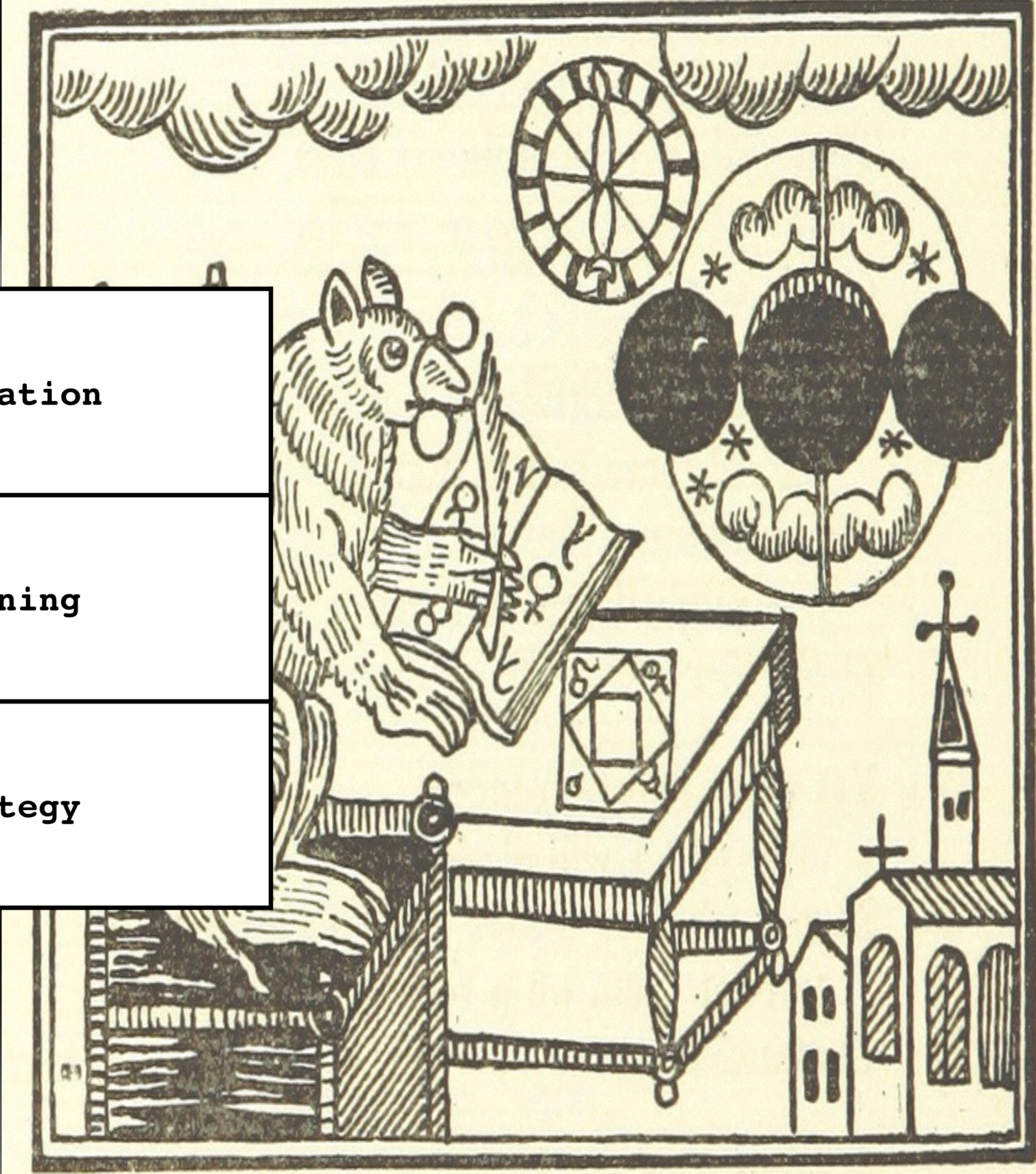
Navigation

Learning

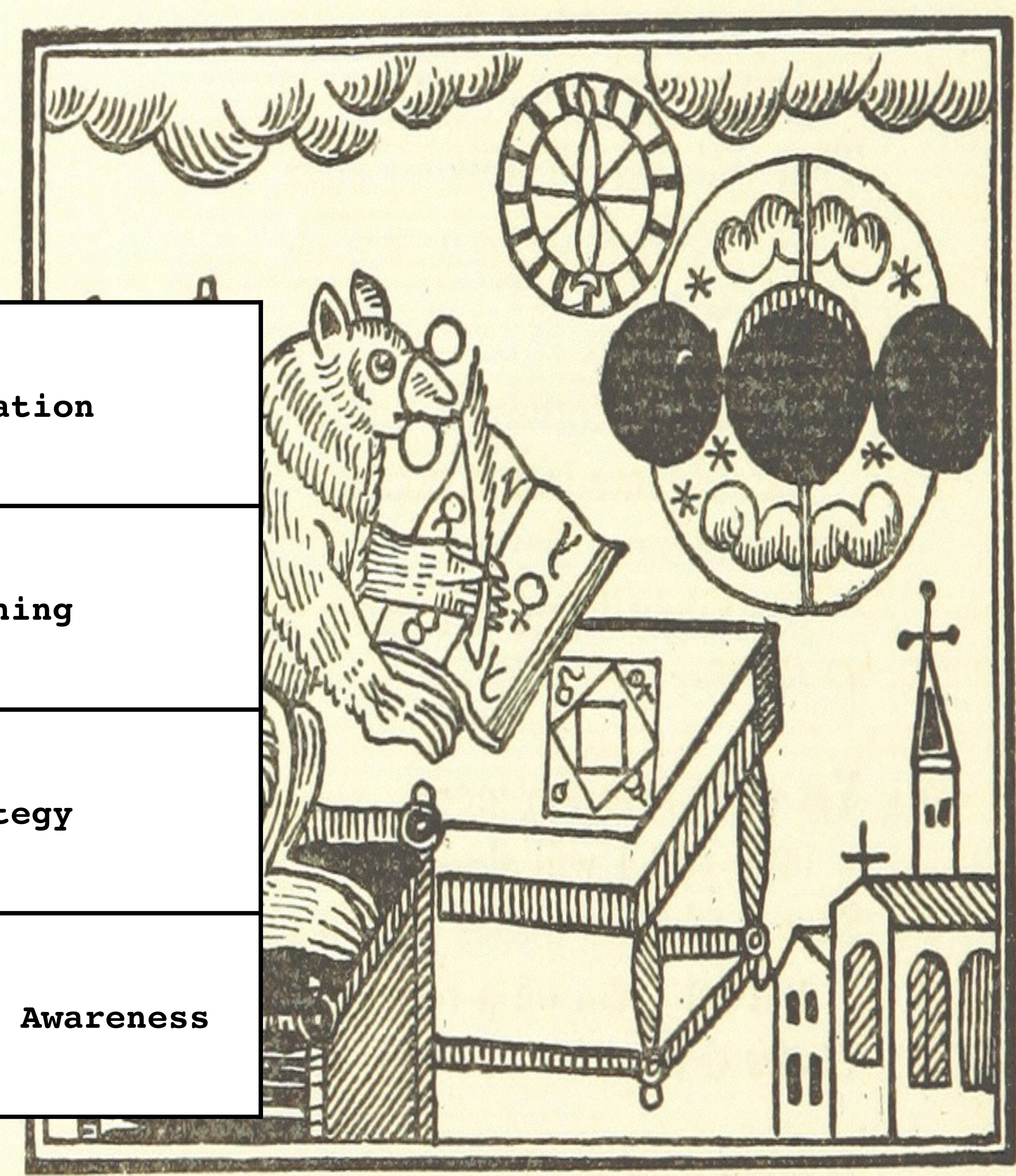
Strategy



Chess	
Visual	Navigation
Context specific	Learning
Position and movement	Strategy



Chess	
Visual	Navigation
Context specific	Learning
Position and movement	Strategy
High	Situational Awareness

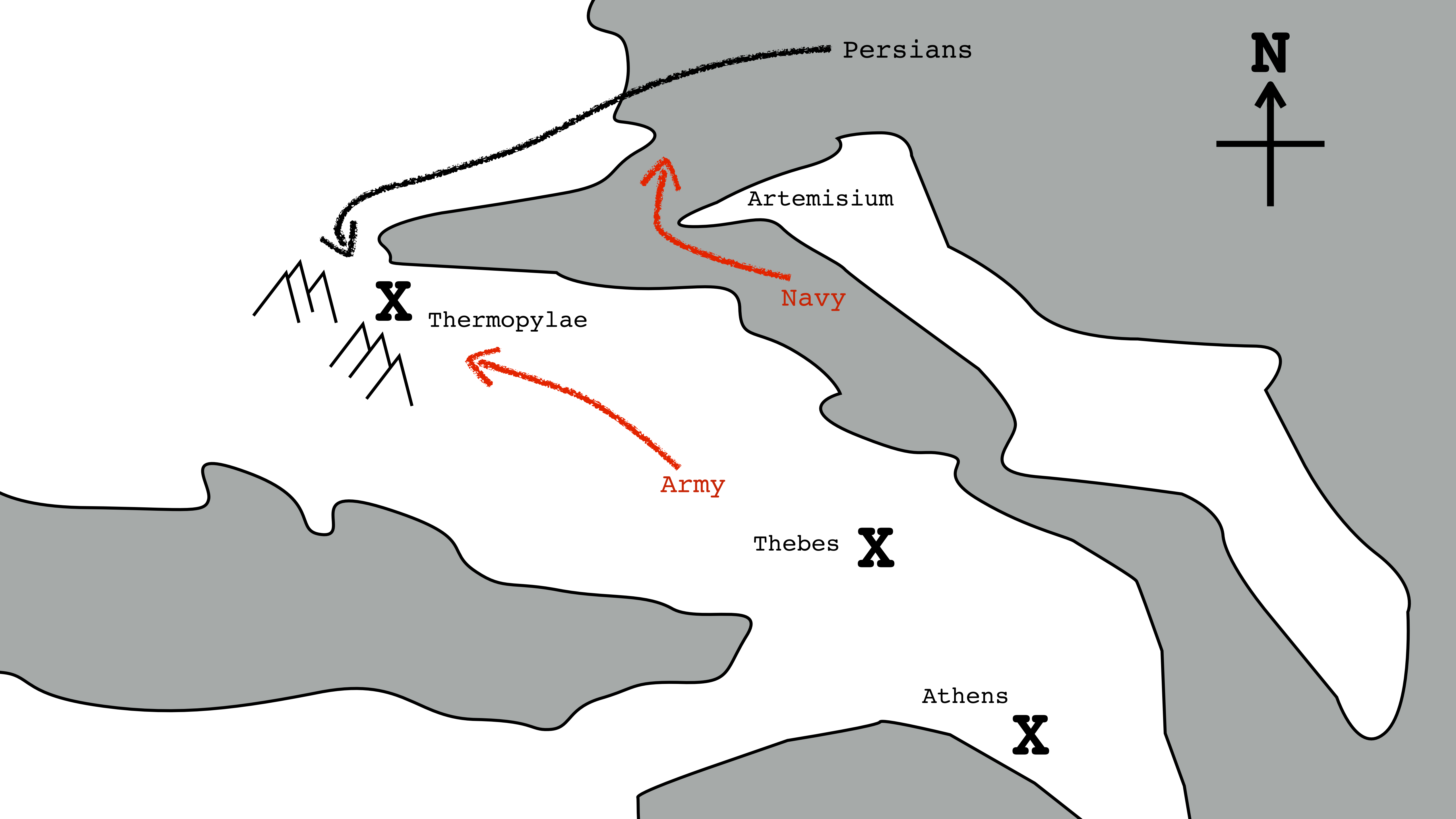


Chess		Alchemy
Visual	Navigation	Story telling
Context specific	Learning	Secrets of success
Position and movement	Strategy	Magic frameworks
High	Situational Awareness	Low

Chess		Alchemy
Visual	Navigation	Story telling
Context specific	Learning	Secrets of success
Position and movement	Strategy	Magic frameworks
High	Situational Awareness	Low

CEO

FAKE



Persians

N

Artemisium

X

Thermopylae

Navy

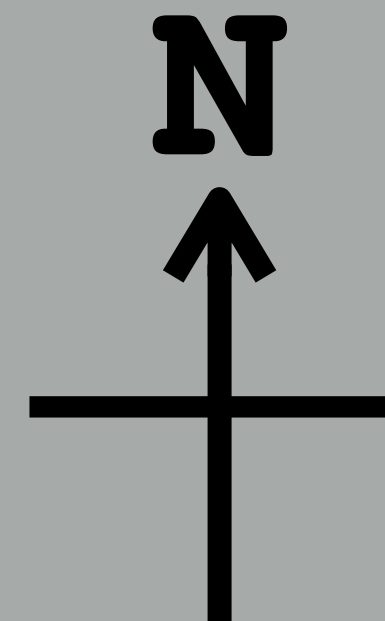
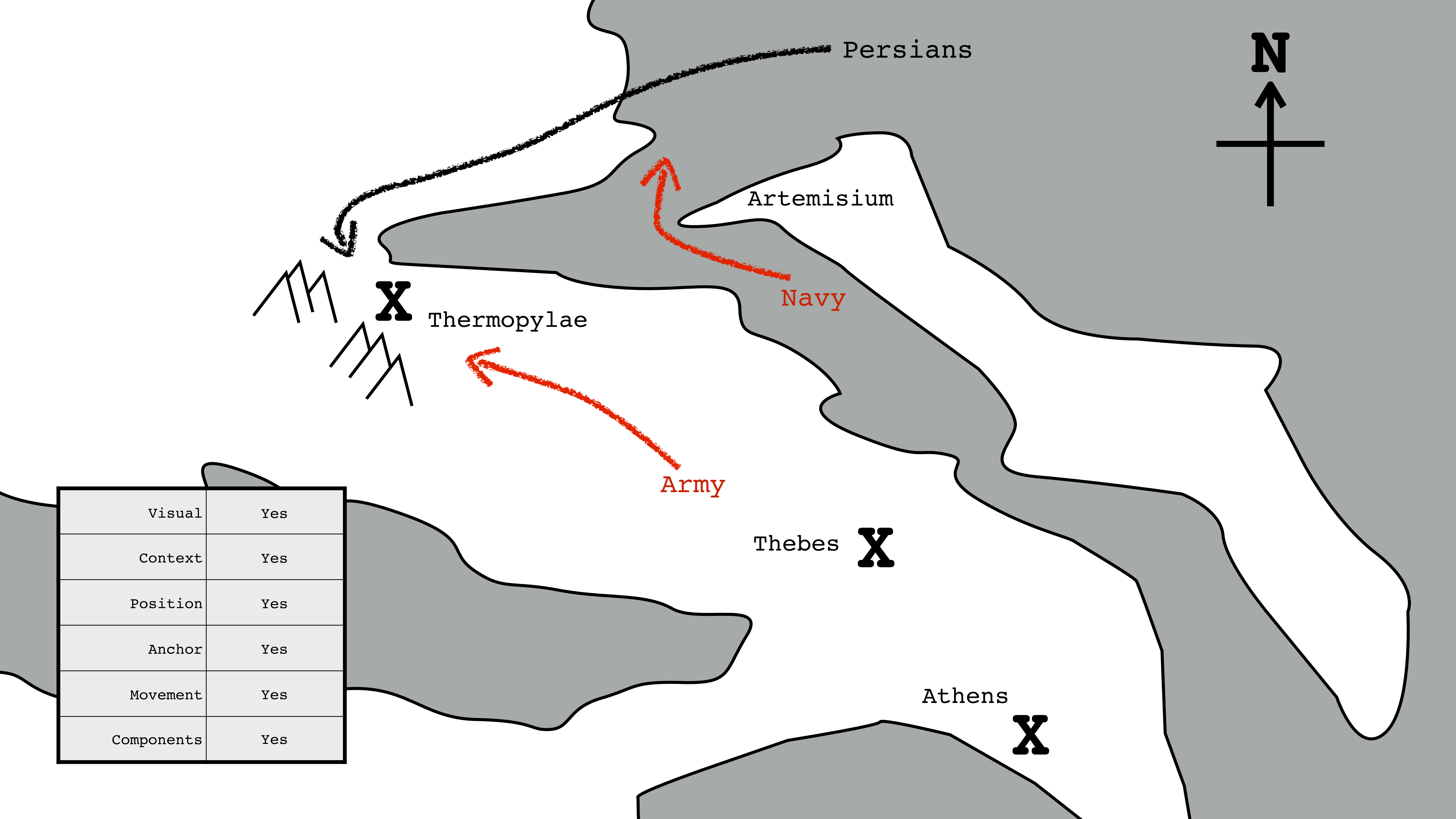
Army

Thebes

X

Athens

X



Persians

Artemisium

Navy

Army

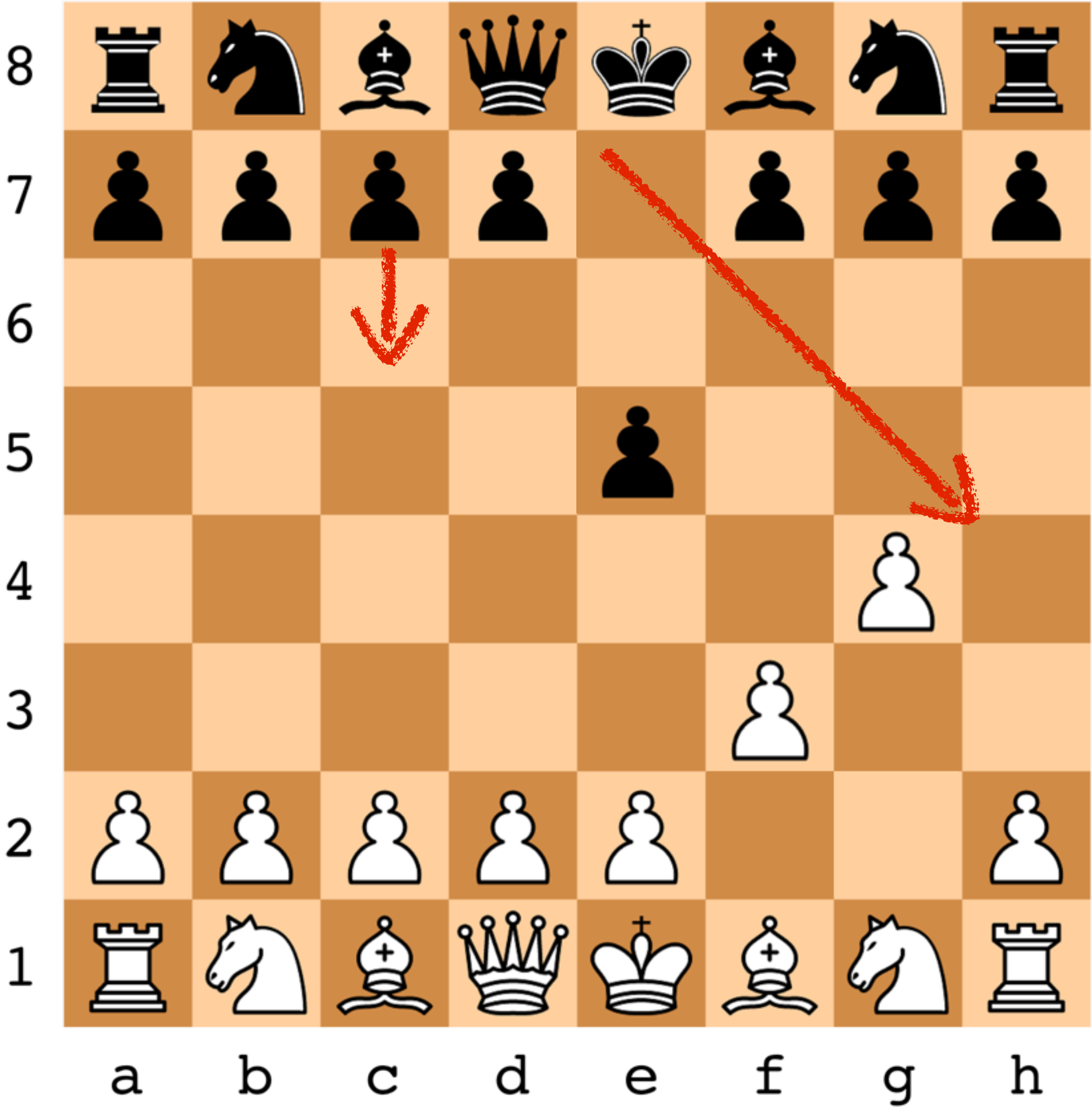
Thermopylae

Thebes

Athens

Visual	Yes
Context	Yes
Position	Yes
Anchor	Yes
Movement	Yes
Components	Yes

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Context	Yes
Position	Yes
Anchor	Yes
Movement	Yes
Components	Yes



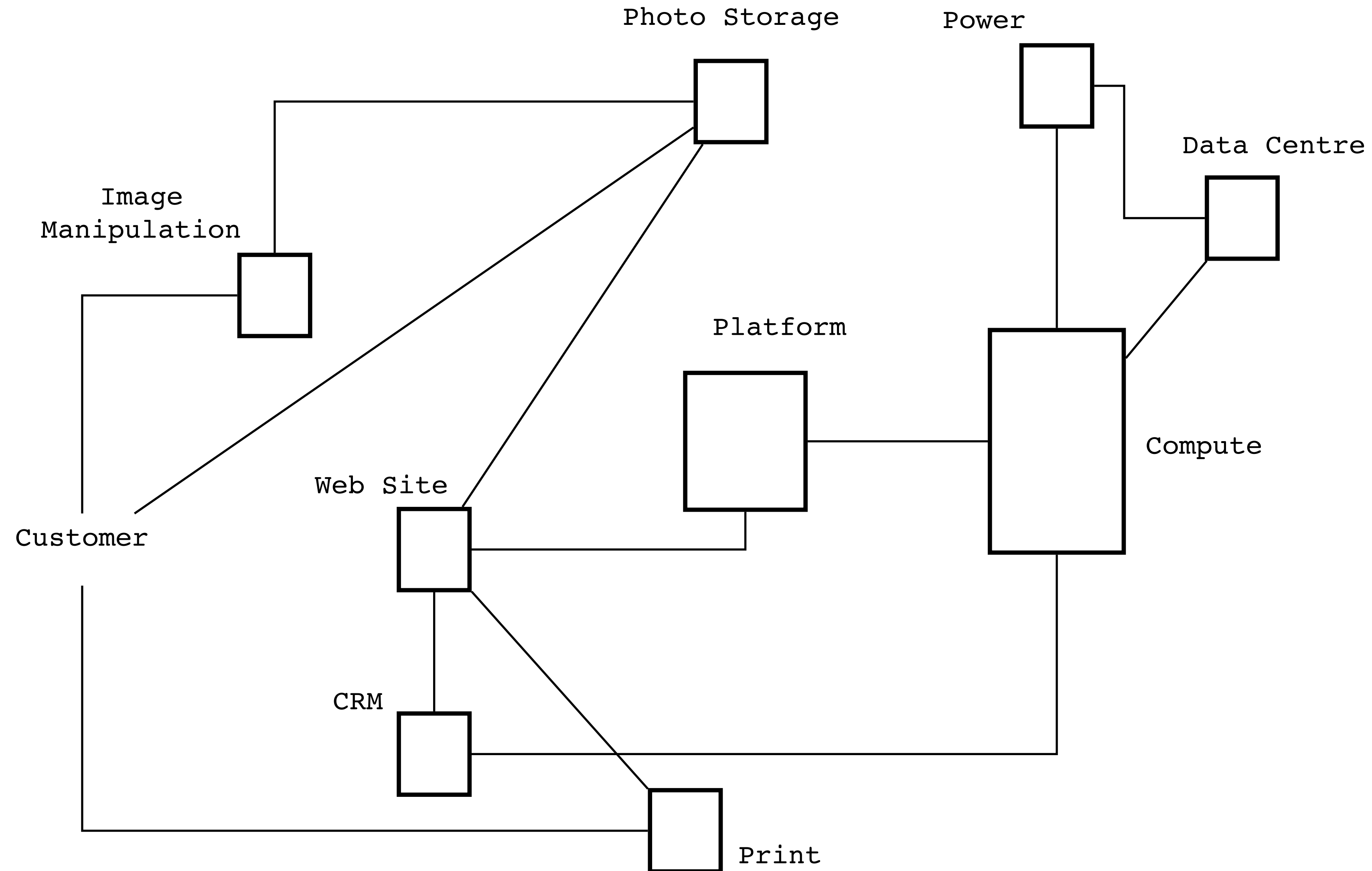


Visual	Yes
Context	Yes
Position	Yes
Anchor	Yes
Movement	Yes
Components	Yes

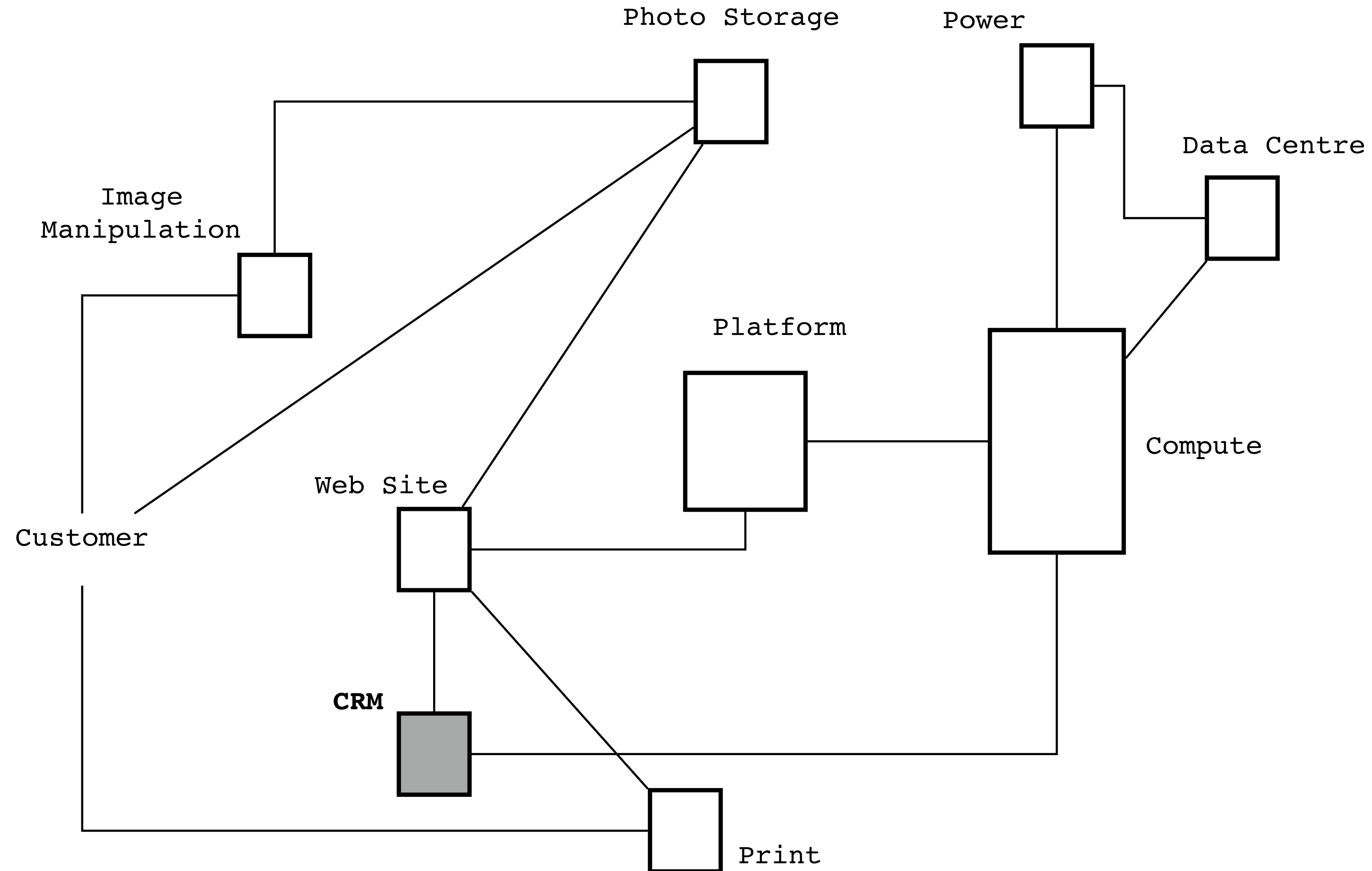


But we have
maps!

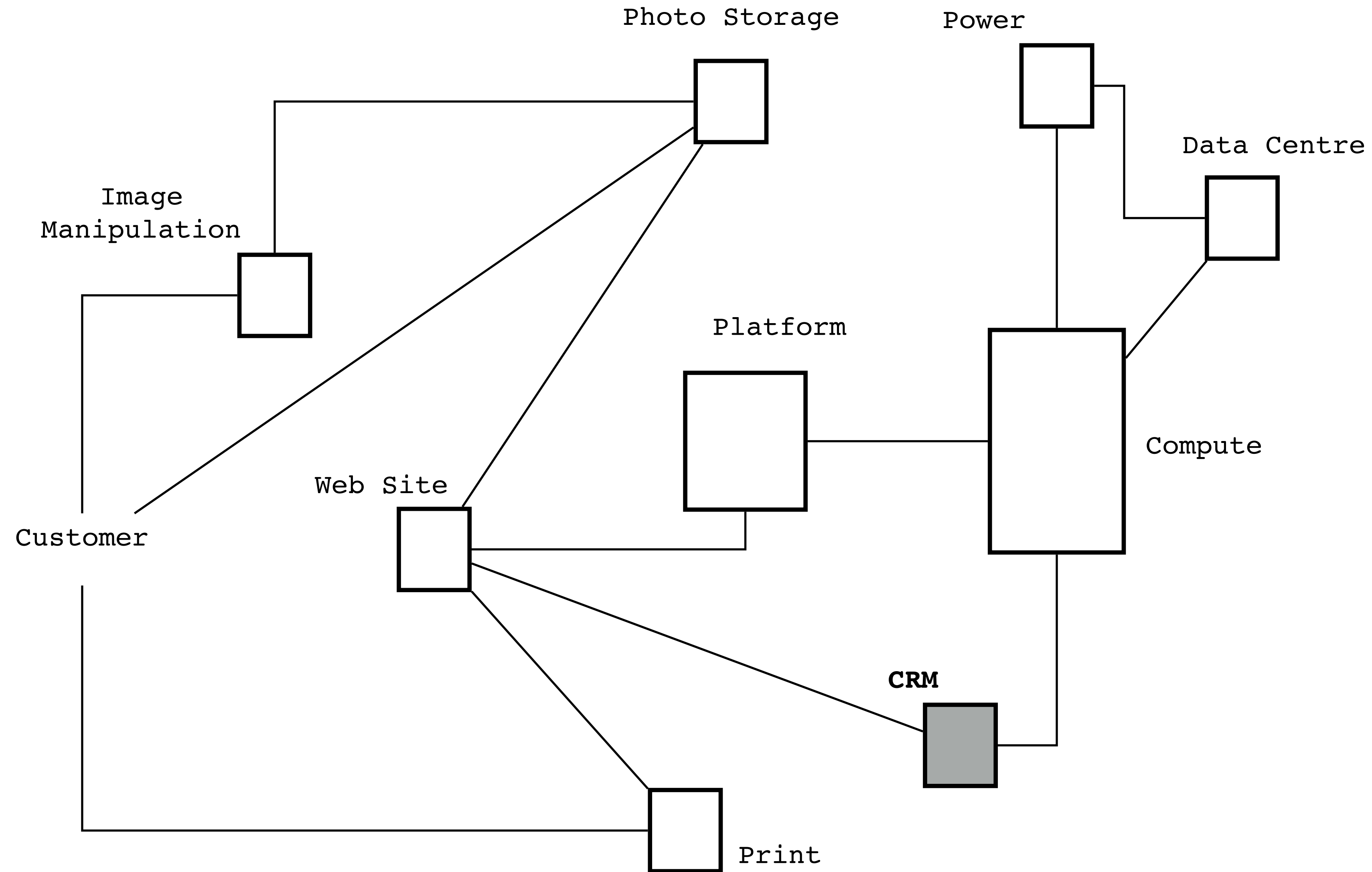
Systems Map



Systems Map



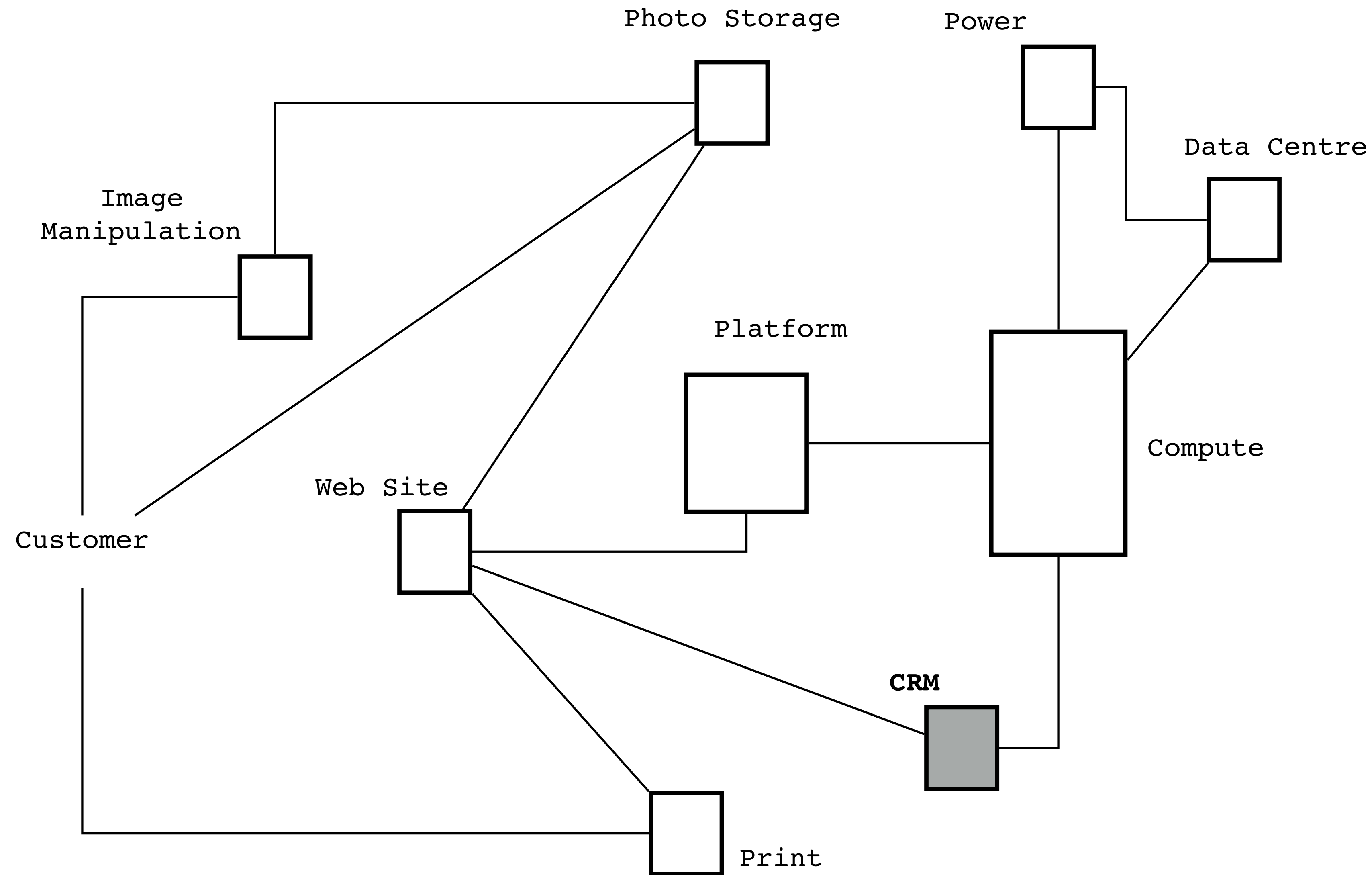
Systems Map

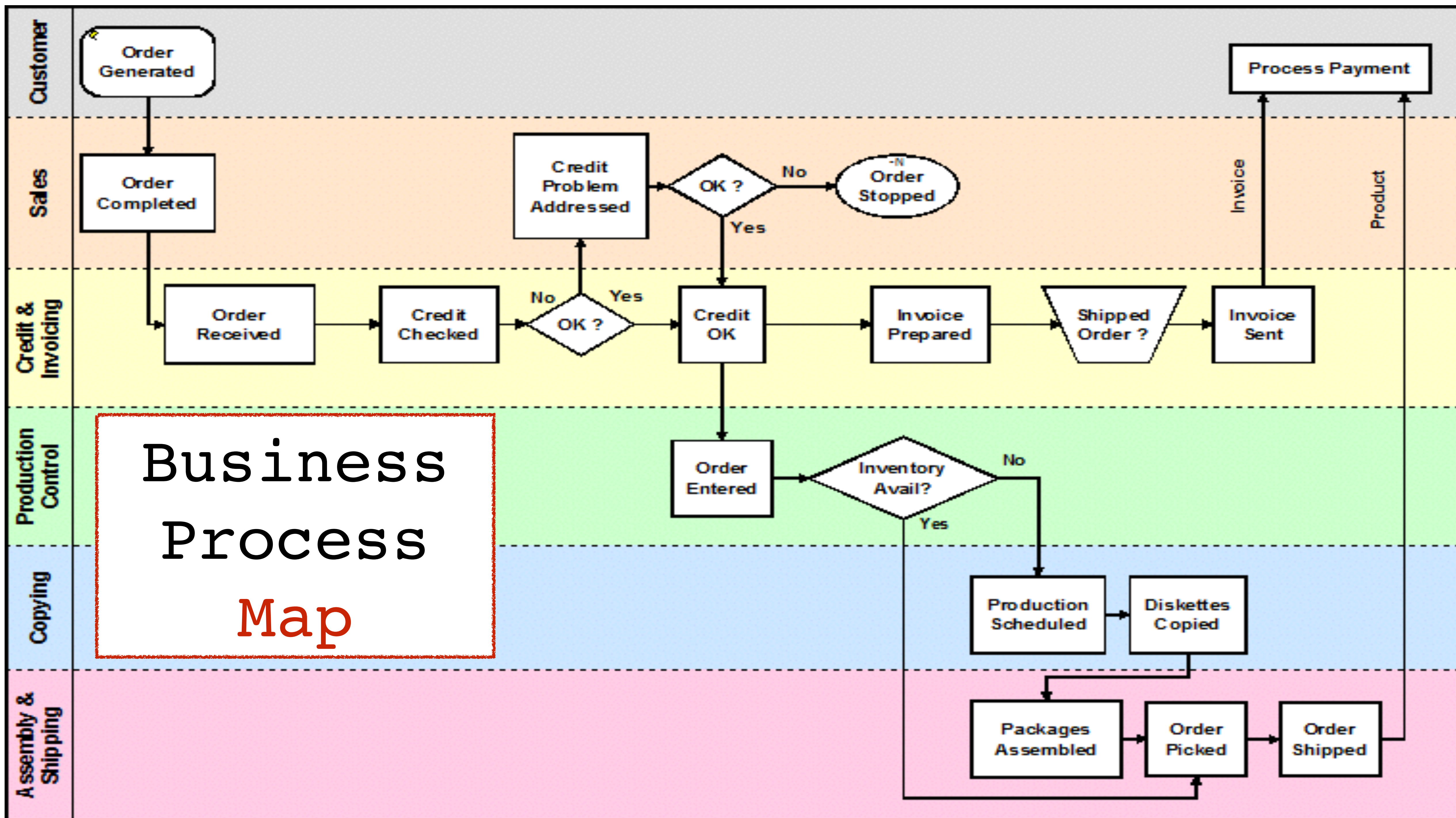


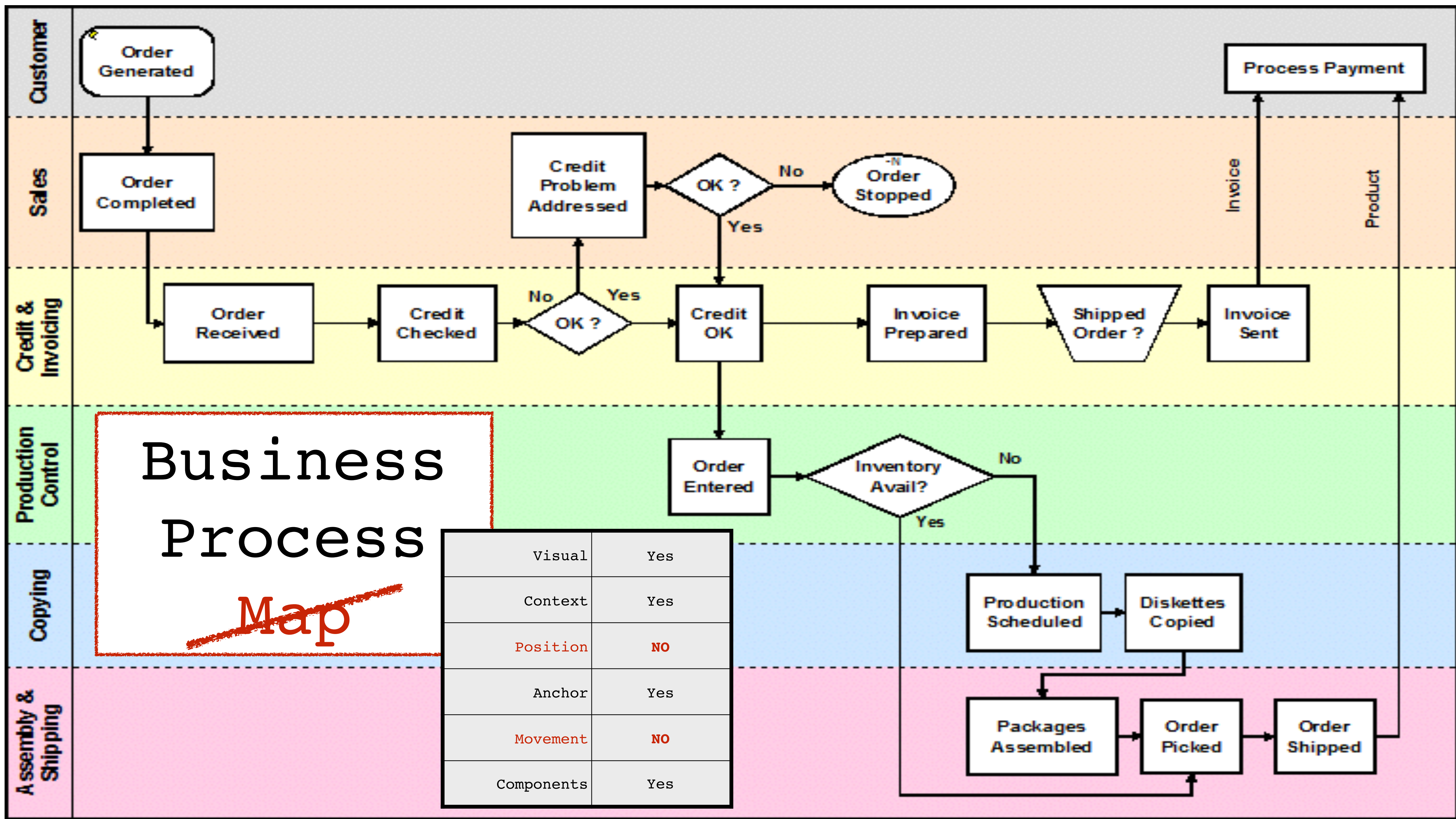
Systems

~~Map~~

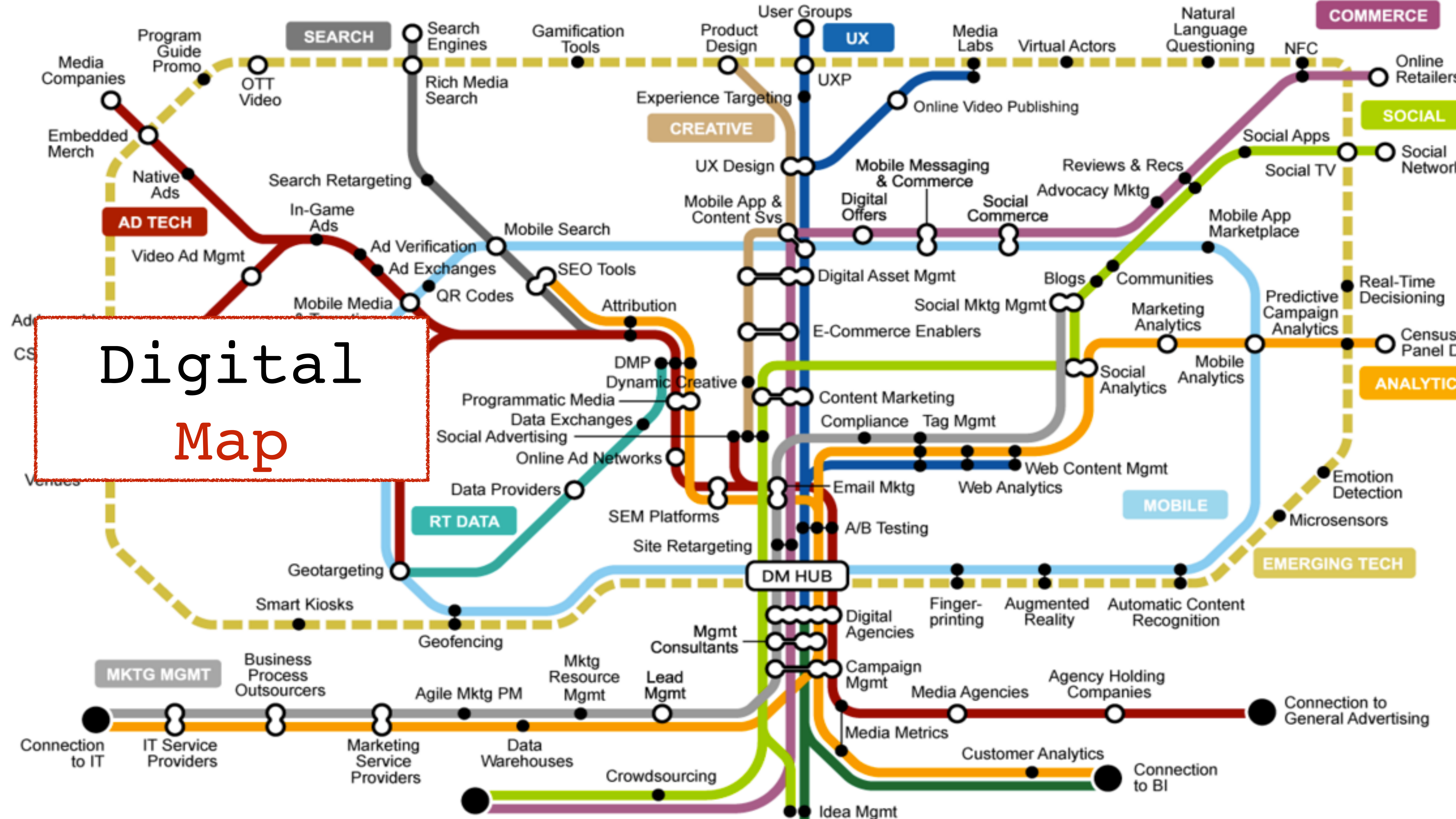
Visual	Yes
Context	Yes
Position	NO
Anchor	NO
Movement	NO
Components	Yes





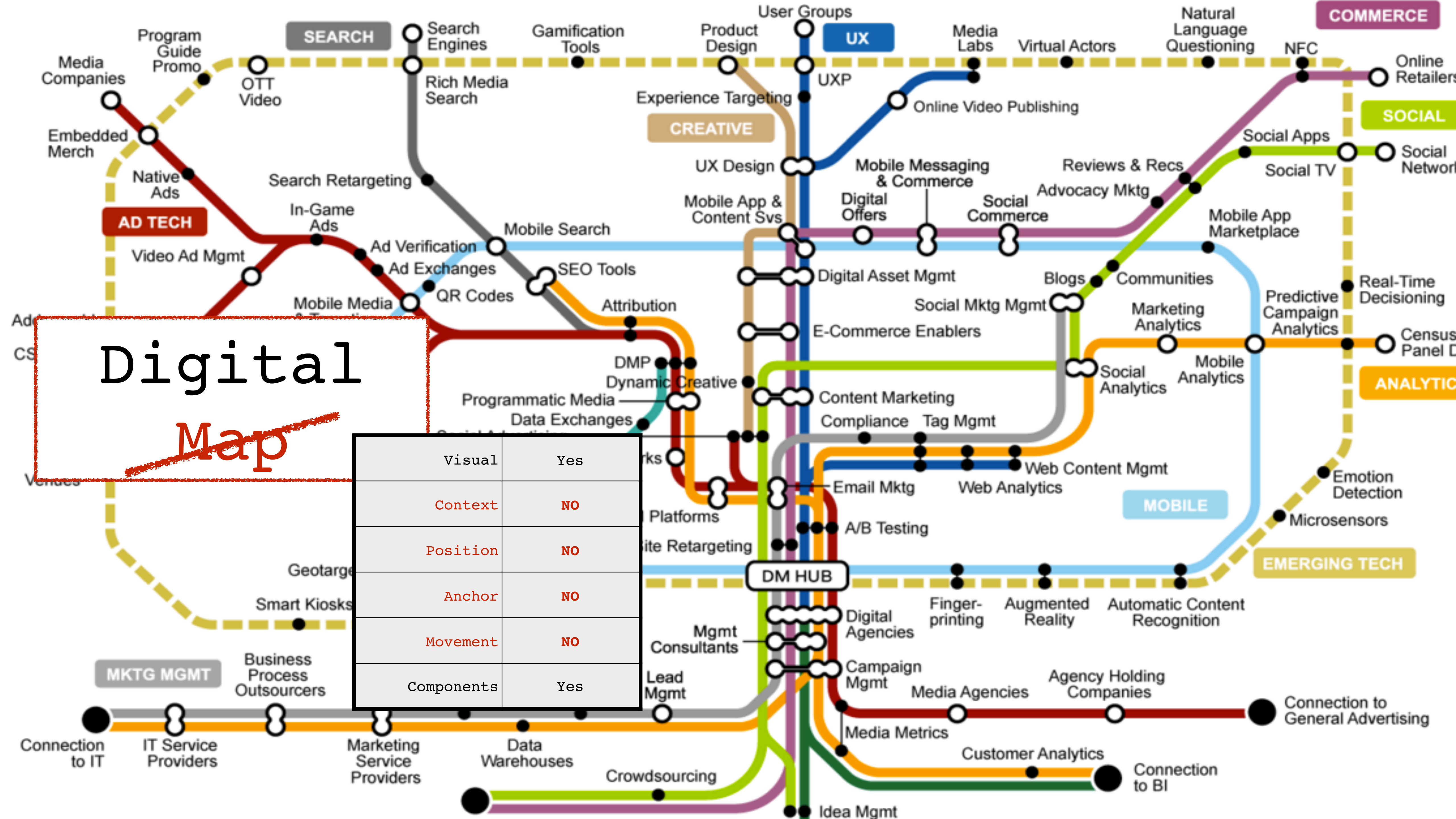


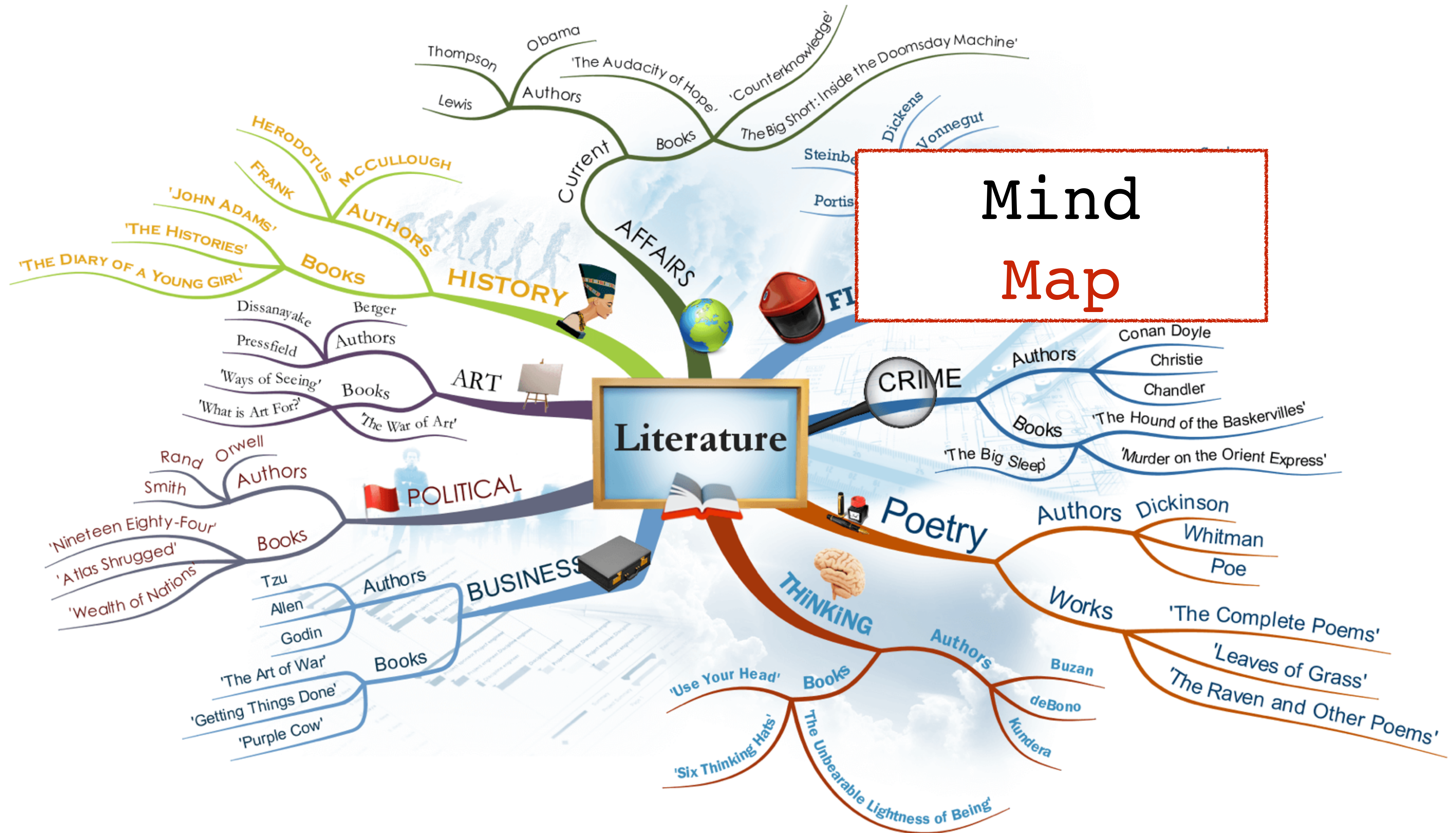
Digital Map

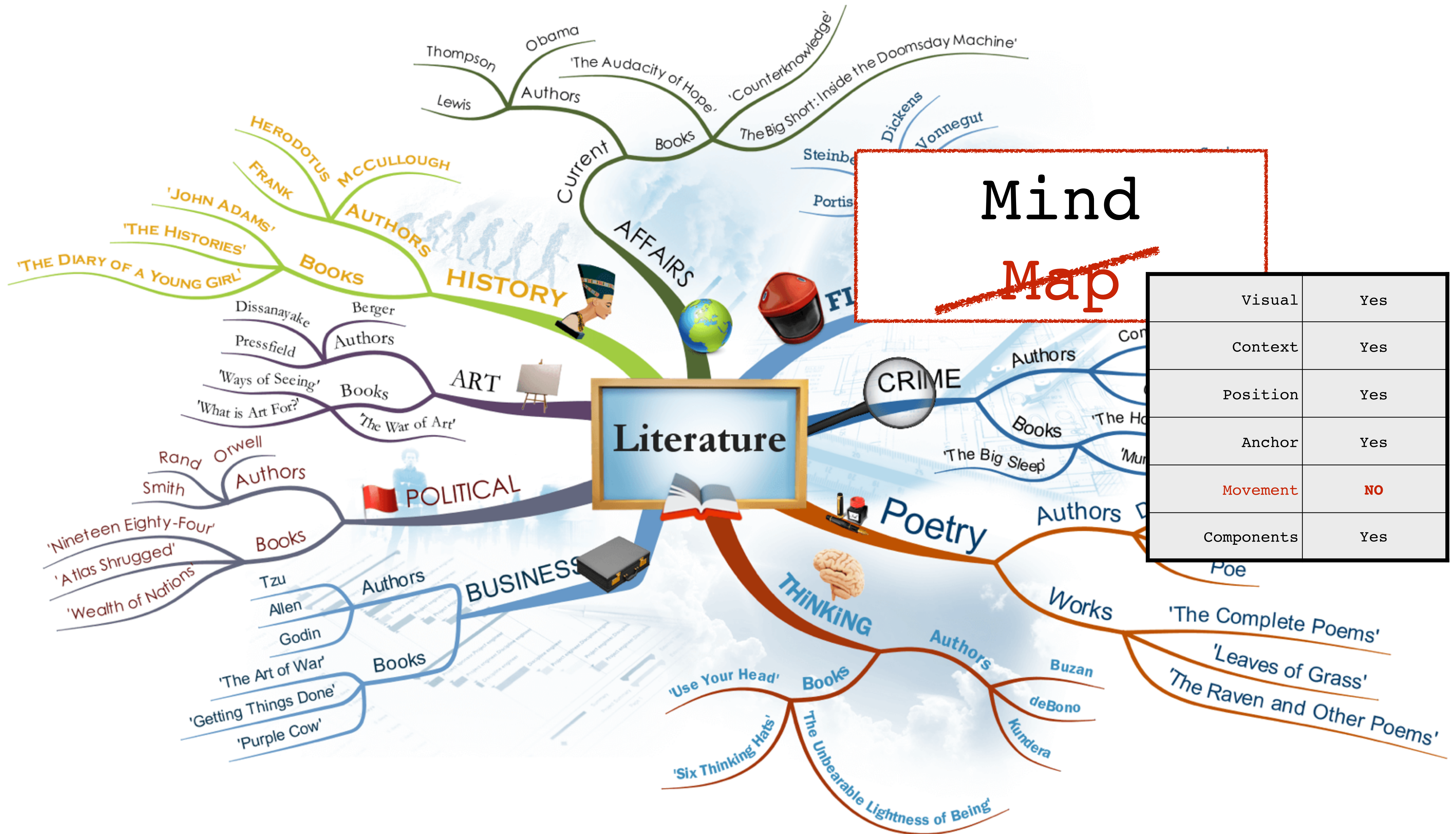


Digital Map

Visual	Yes
Context	NO
Position	NO
Anchor	NO
Movement	NO
Components	Yes

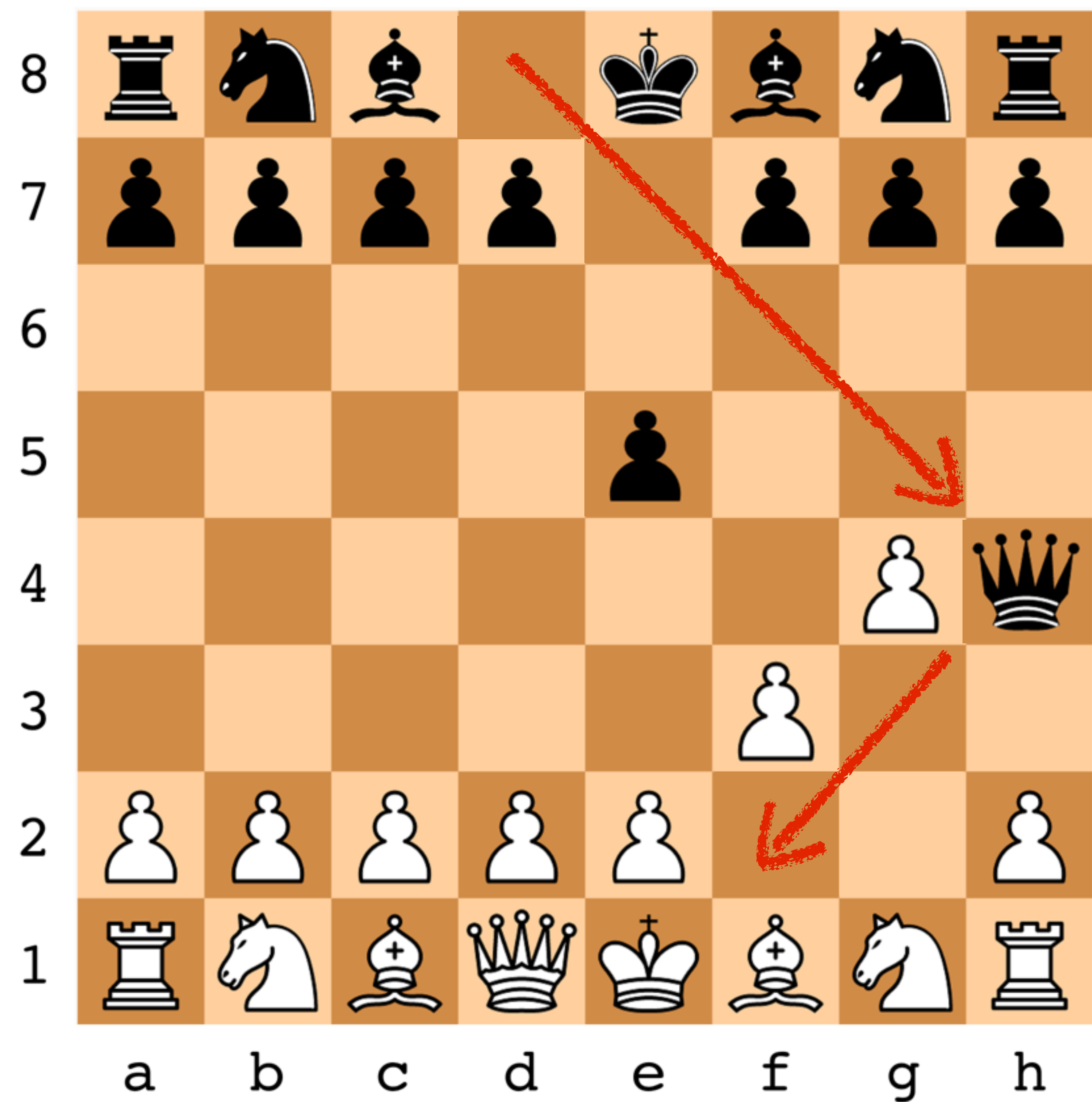








Movement = LEARNING



Checkmate



How to create
a map?

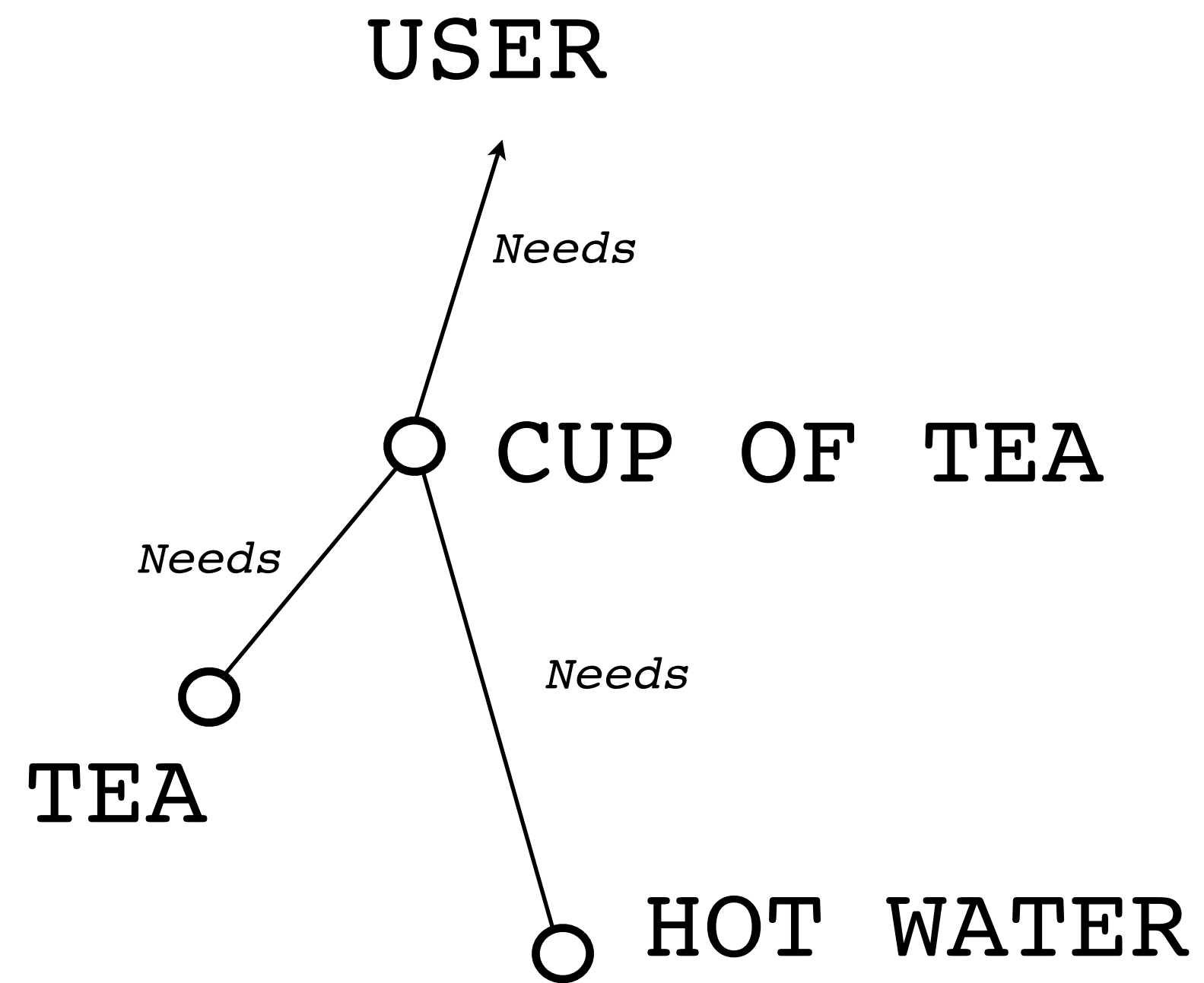


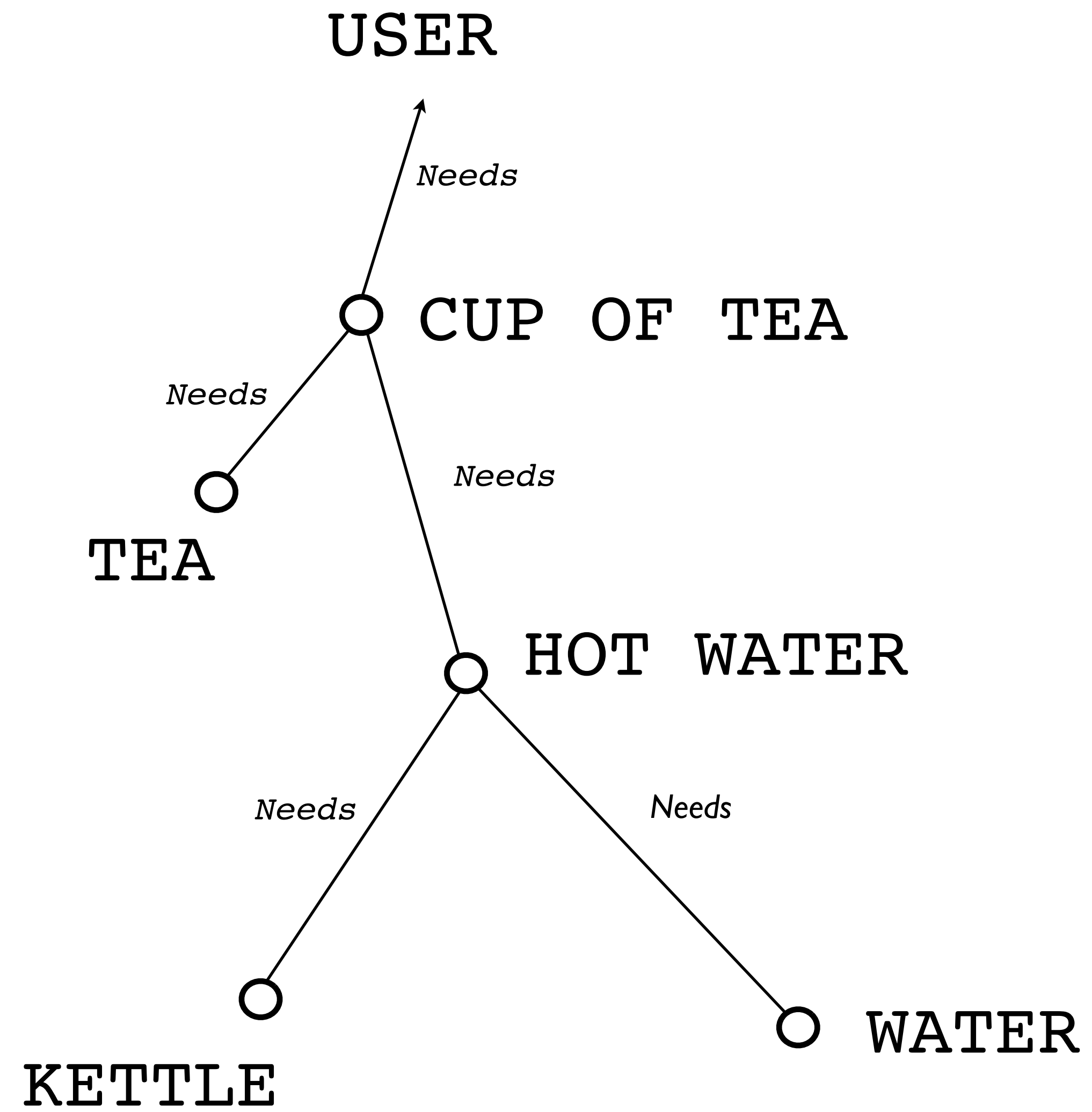
USER

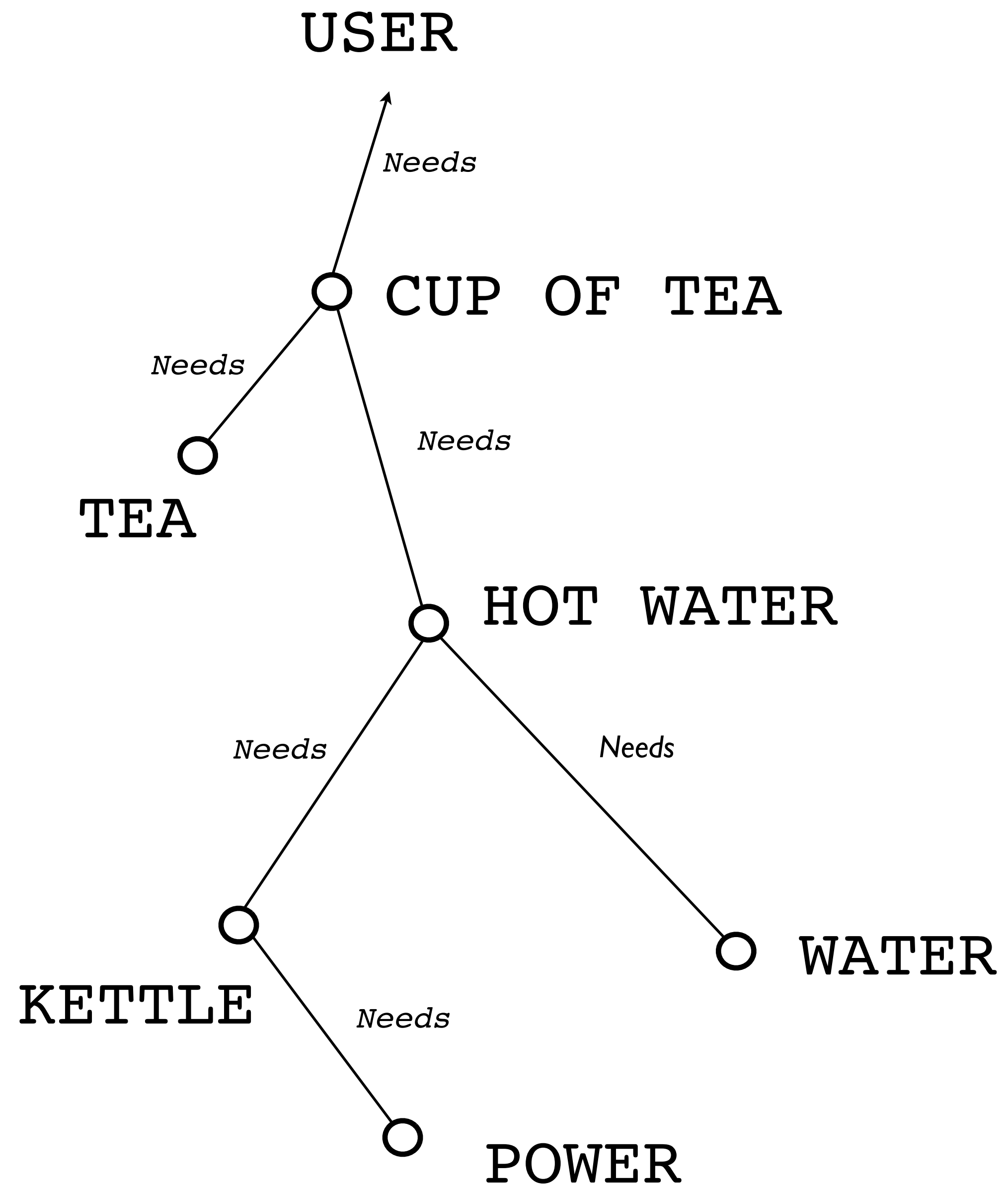
Needs

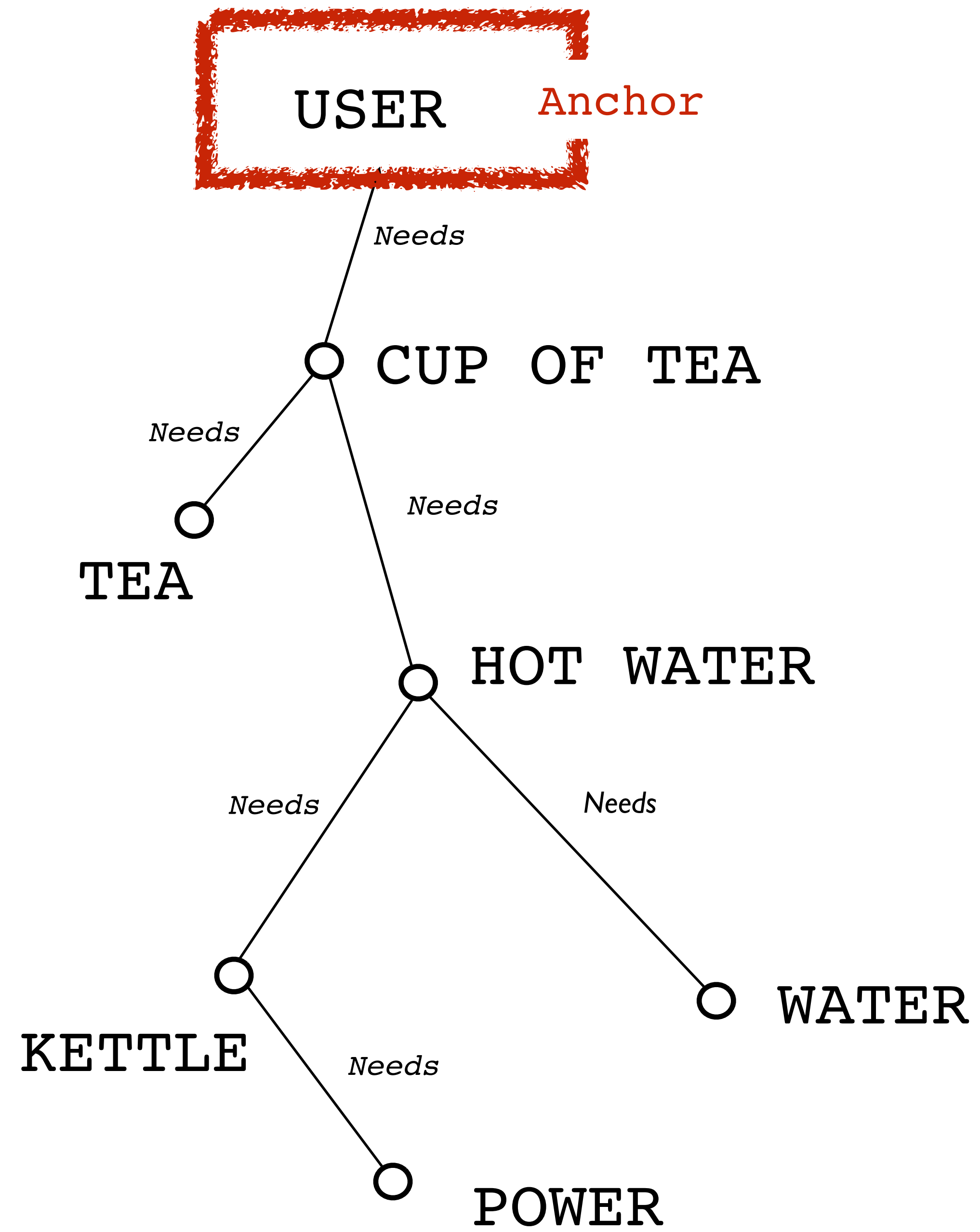
O CUP OF TEA



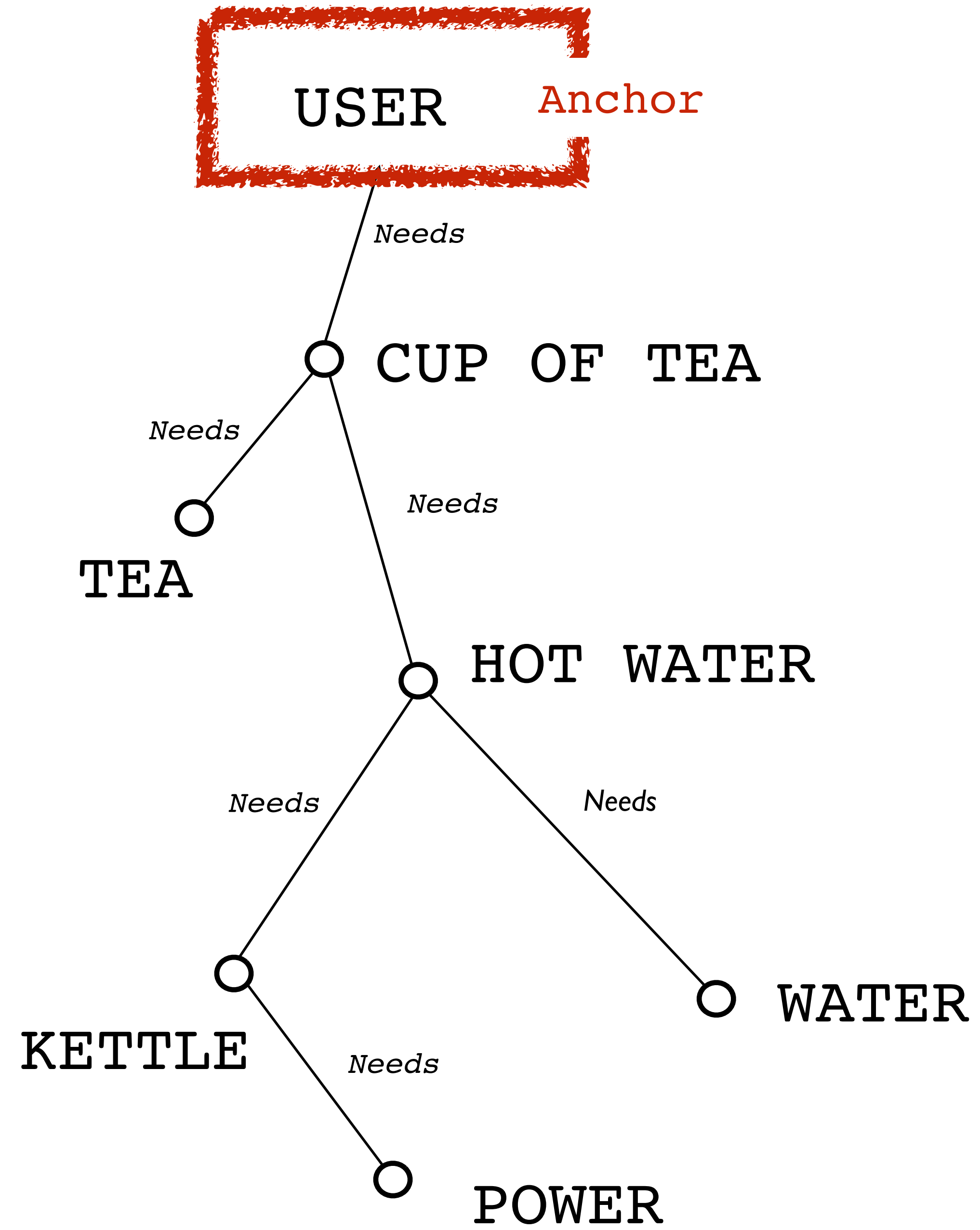


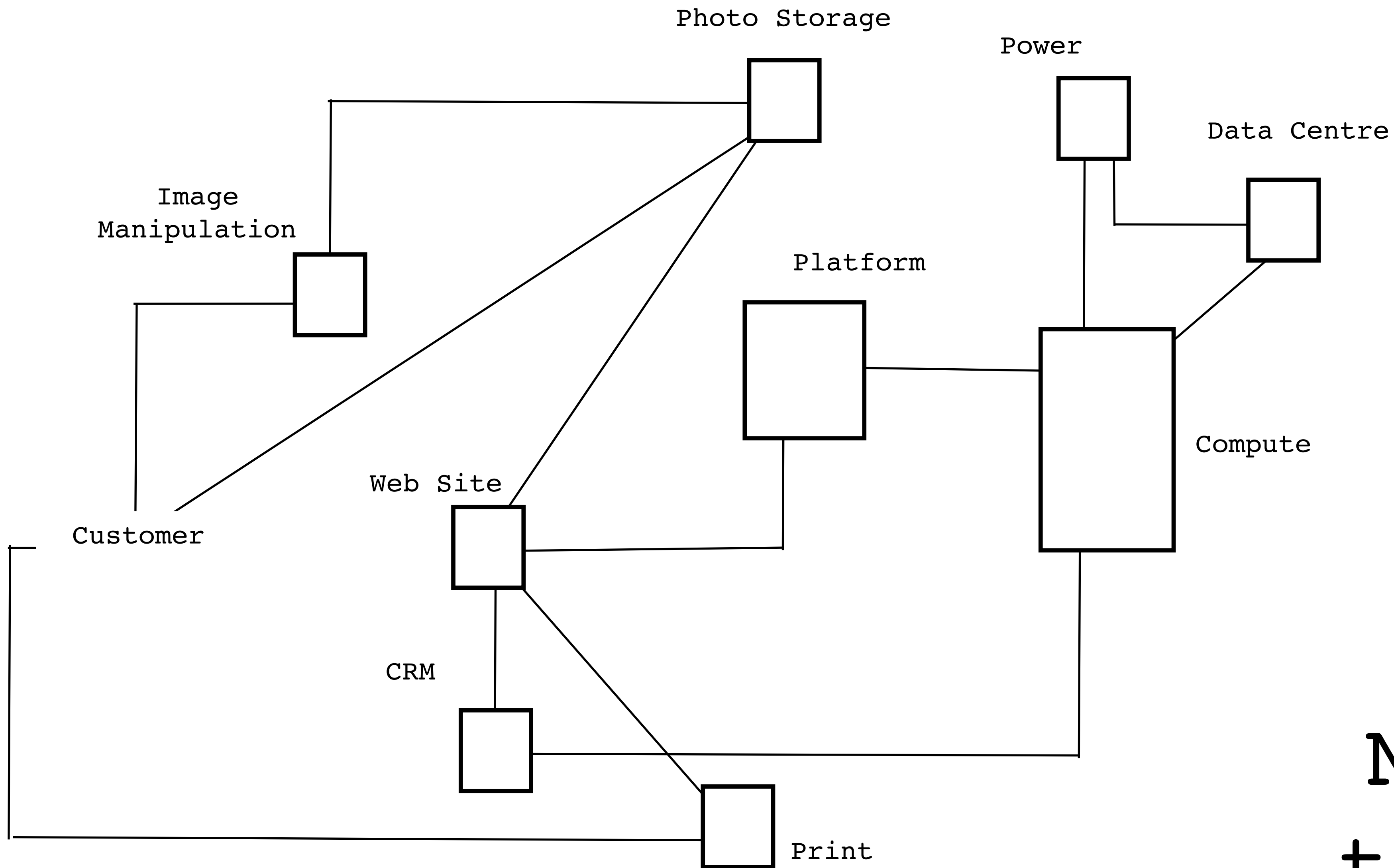






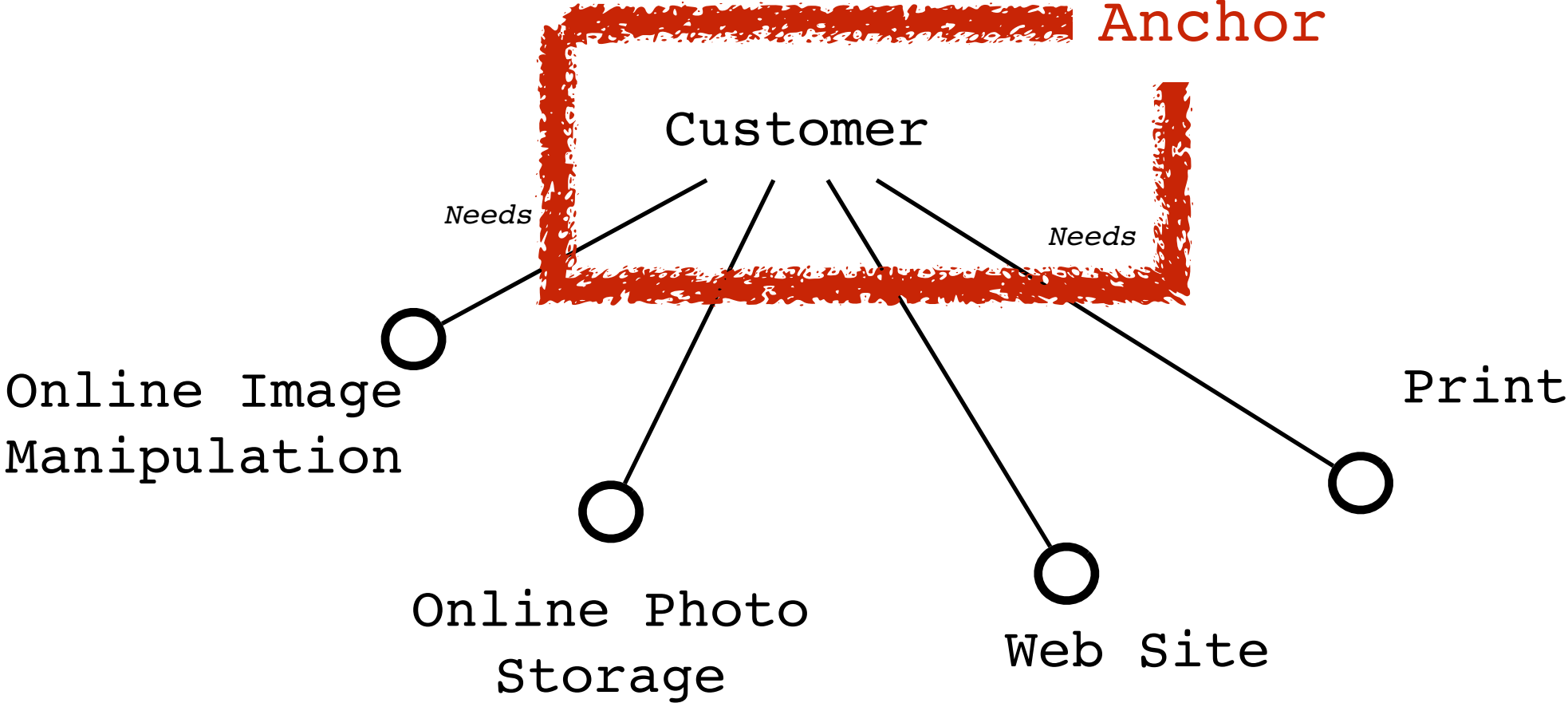
Position



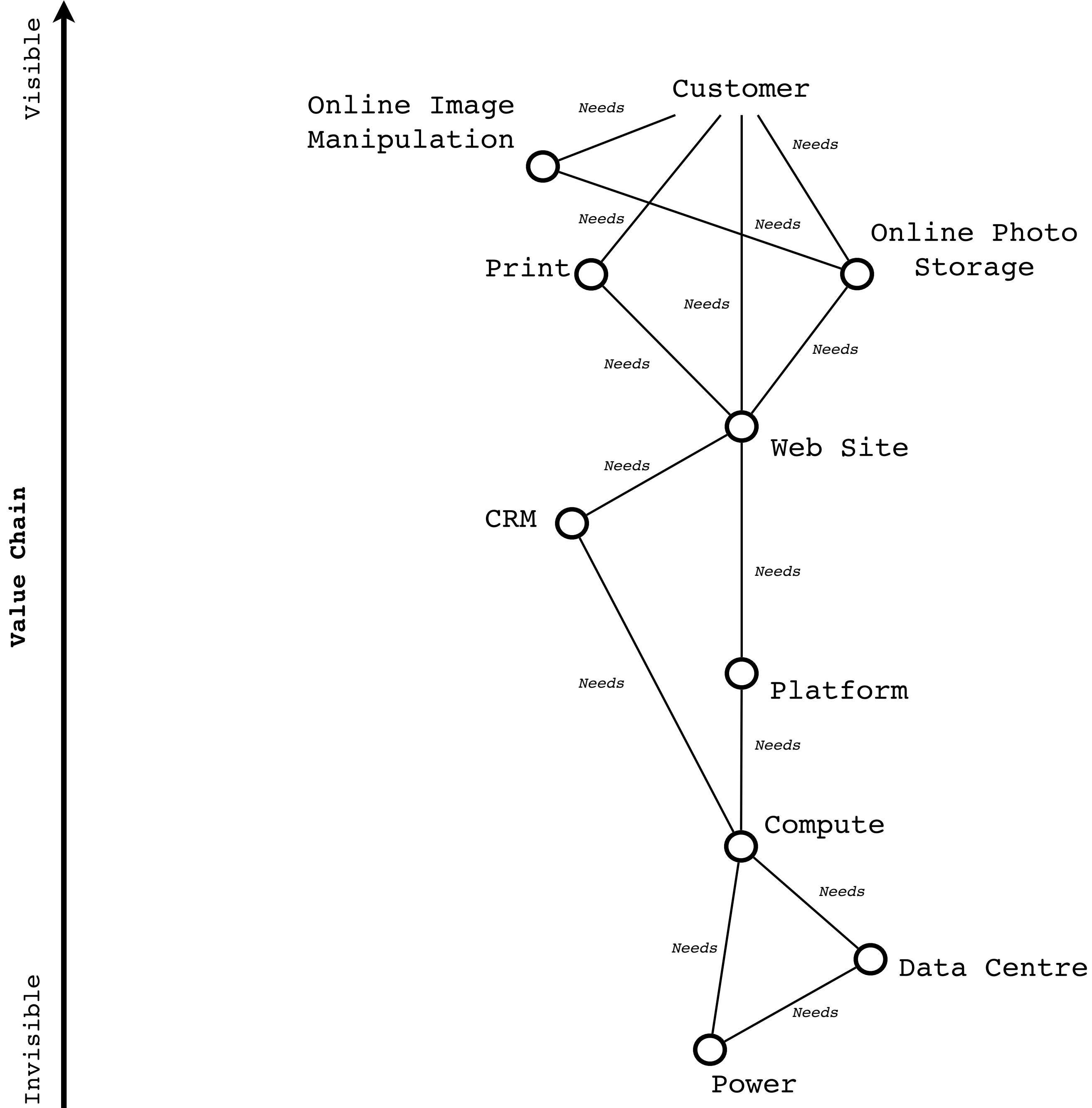


Visual	Yes
Context	Yes
Position	NO
Anchor	NO
Movement	NO
Components	Yes

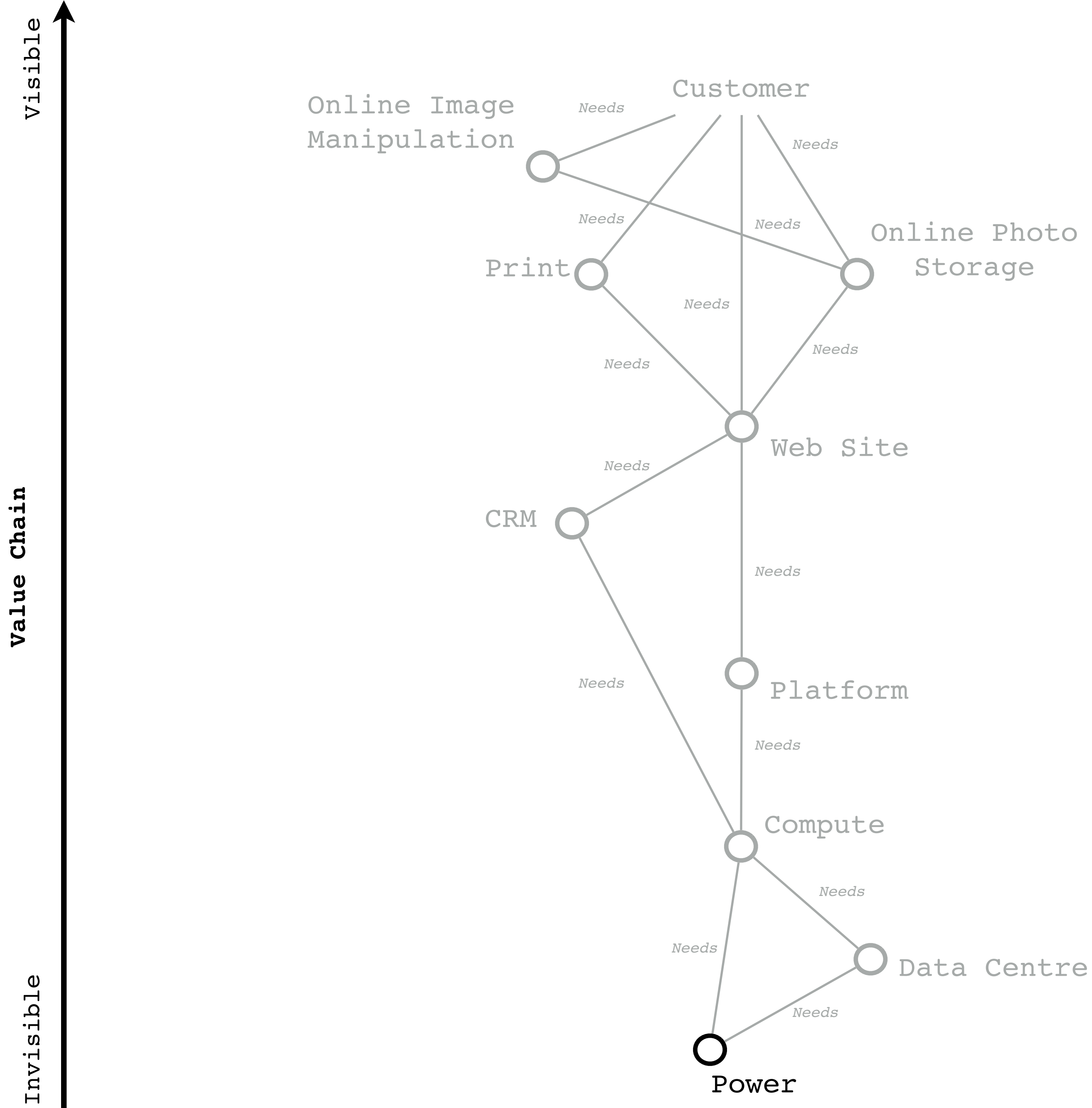
Network
topology



Visual	Yes
Context	Yes
Position	NO
Anchor	Yes
Movement	NO
Components	Yes



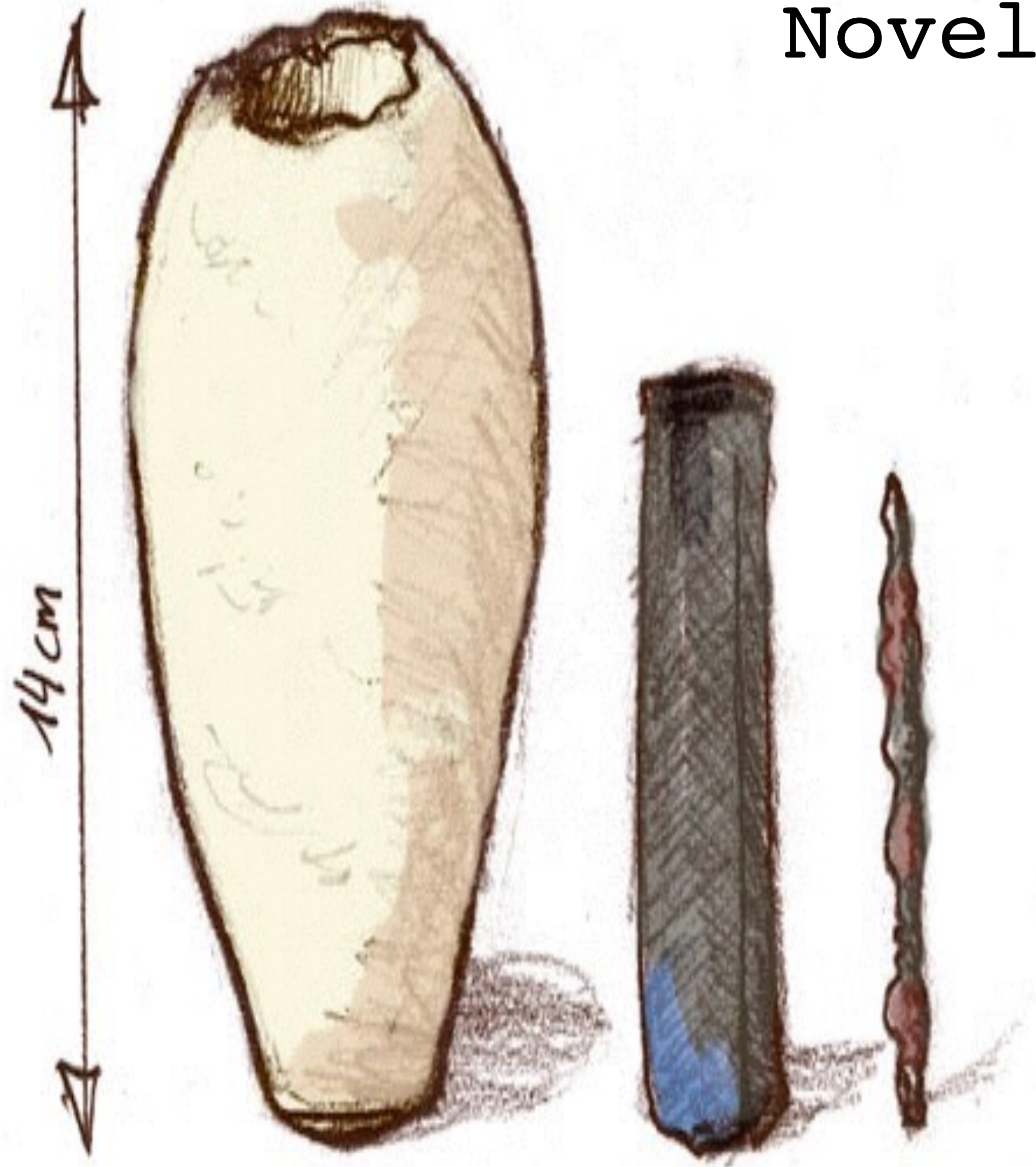
Visual	Yes
Context	Yes
Position	Yes
Anchor	Yes
Movement	NO
Components	Yes



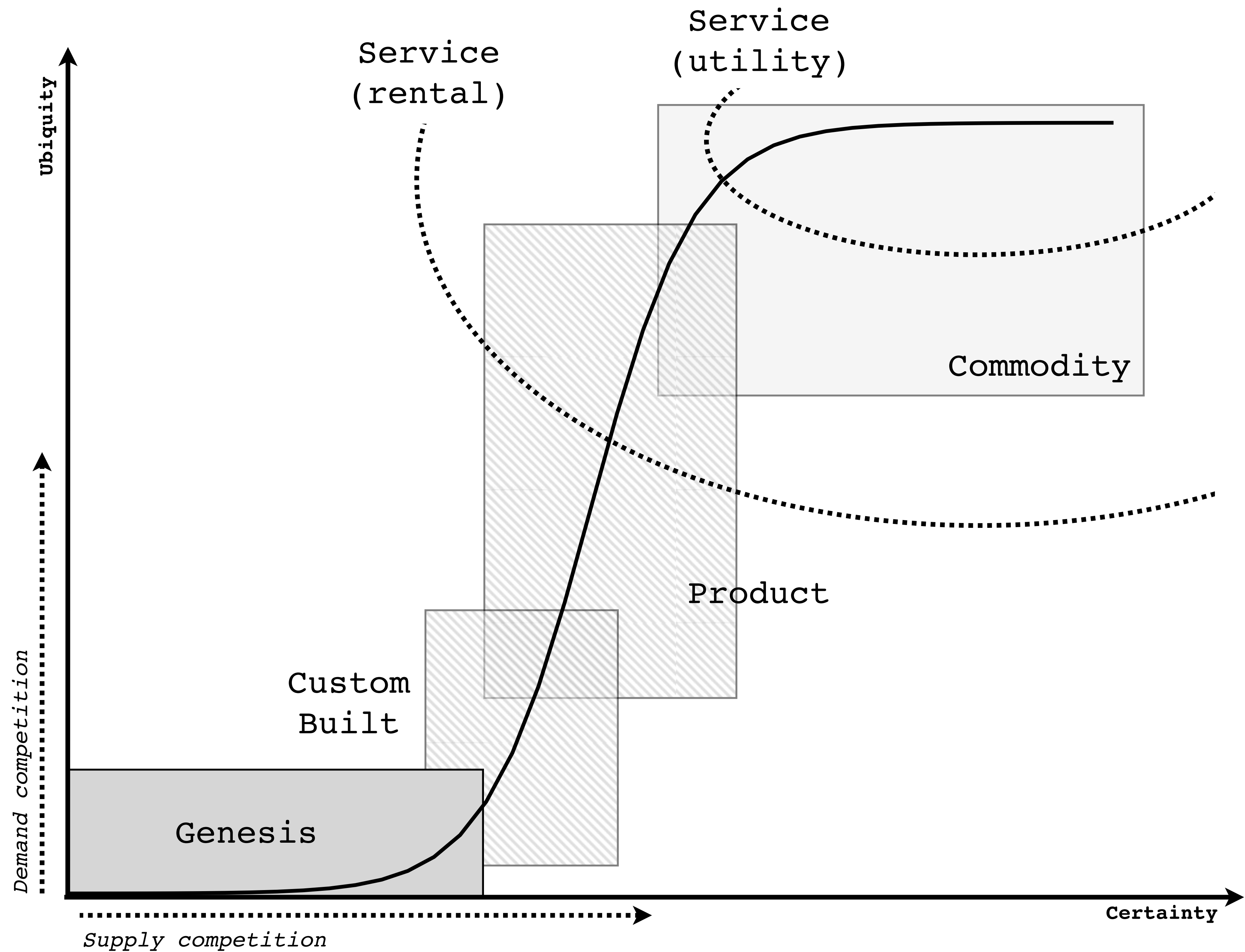
Visual	Yes
Context	Yes
Position	Yes
Anchor	Yes
Movement	NO
Components	Yes

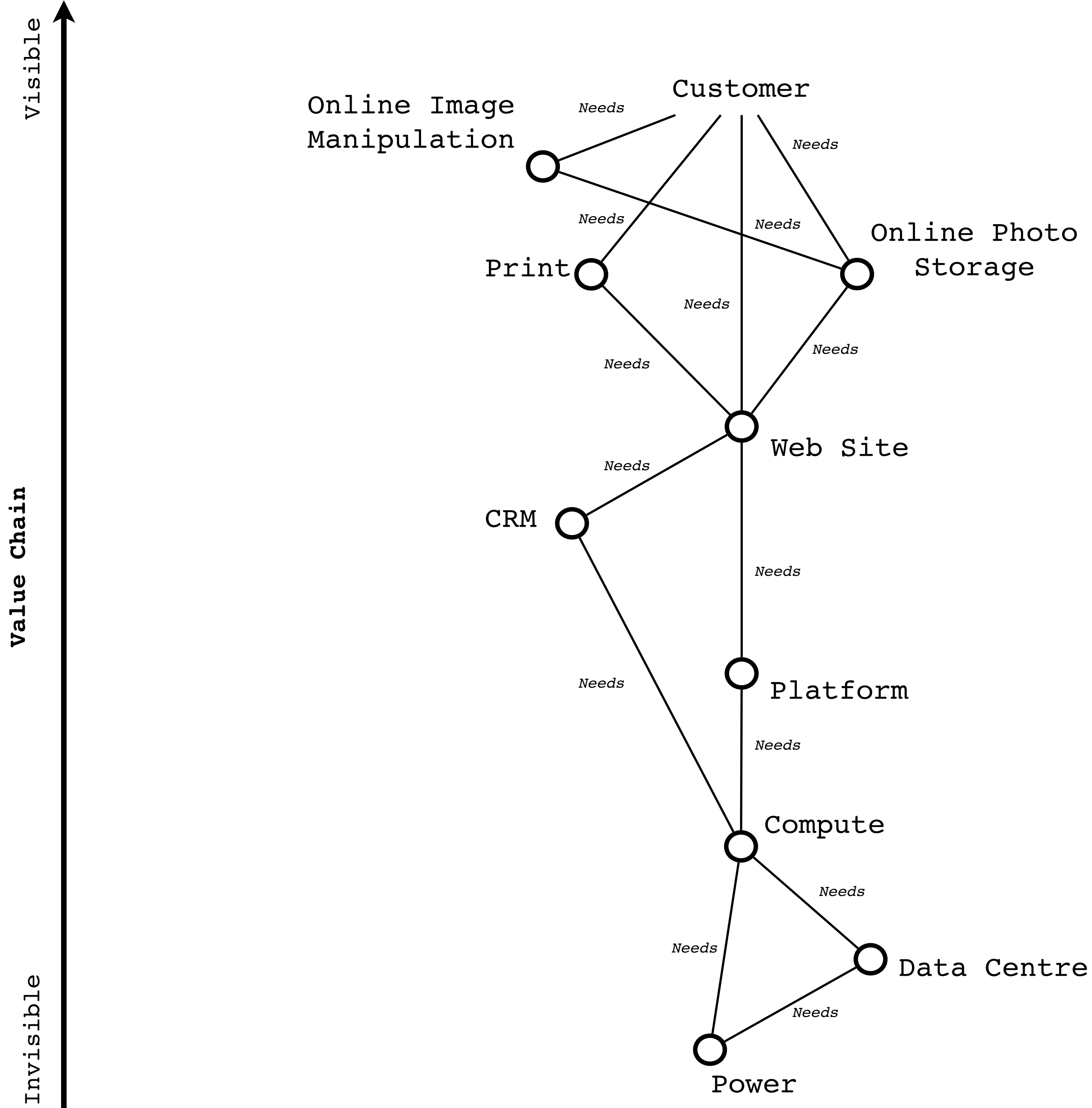
Novel

Commodity

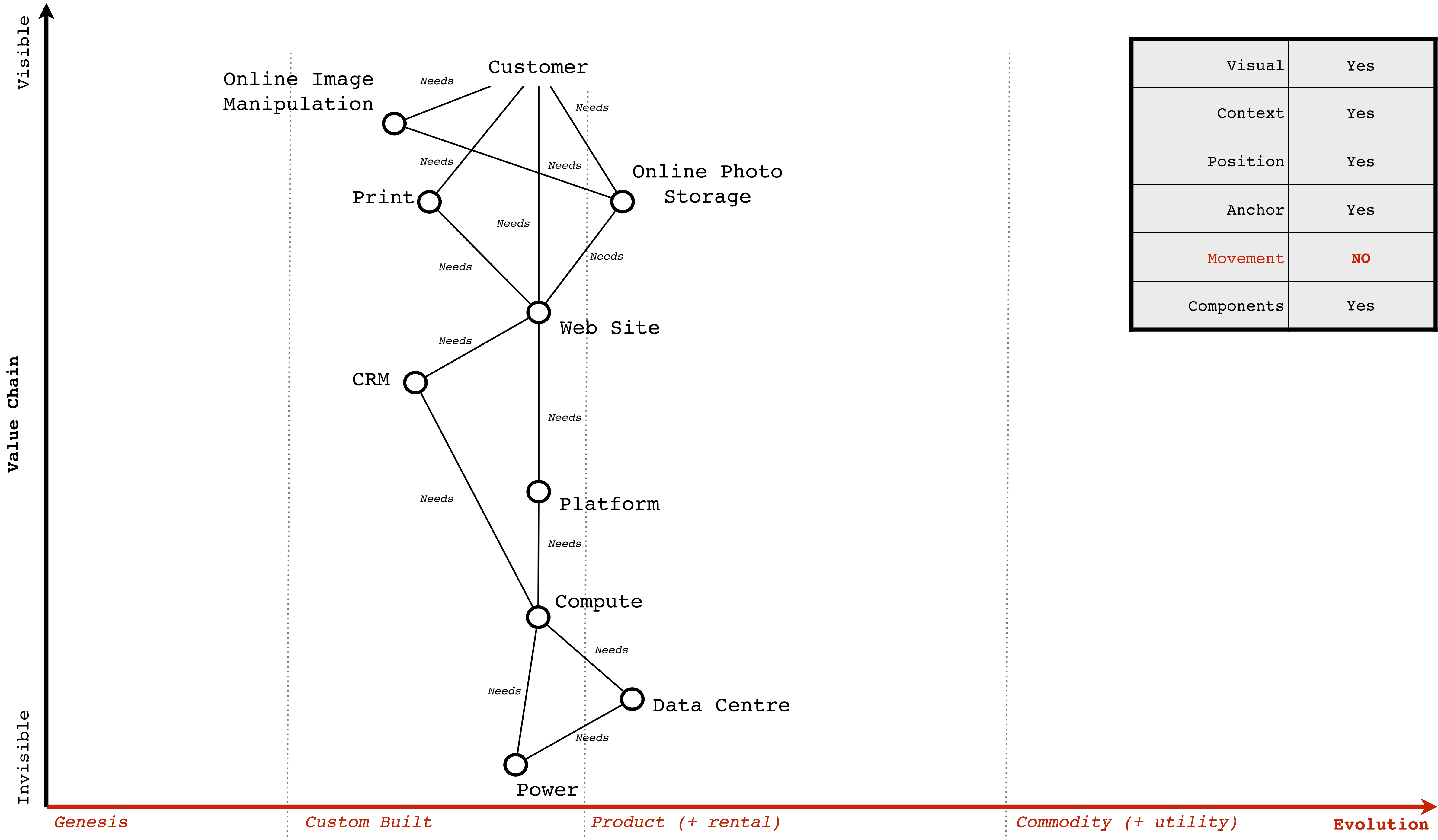


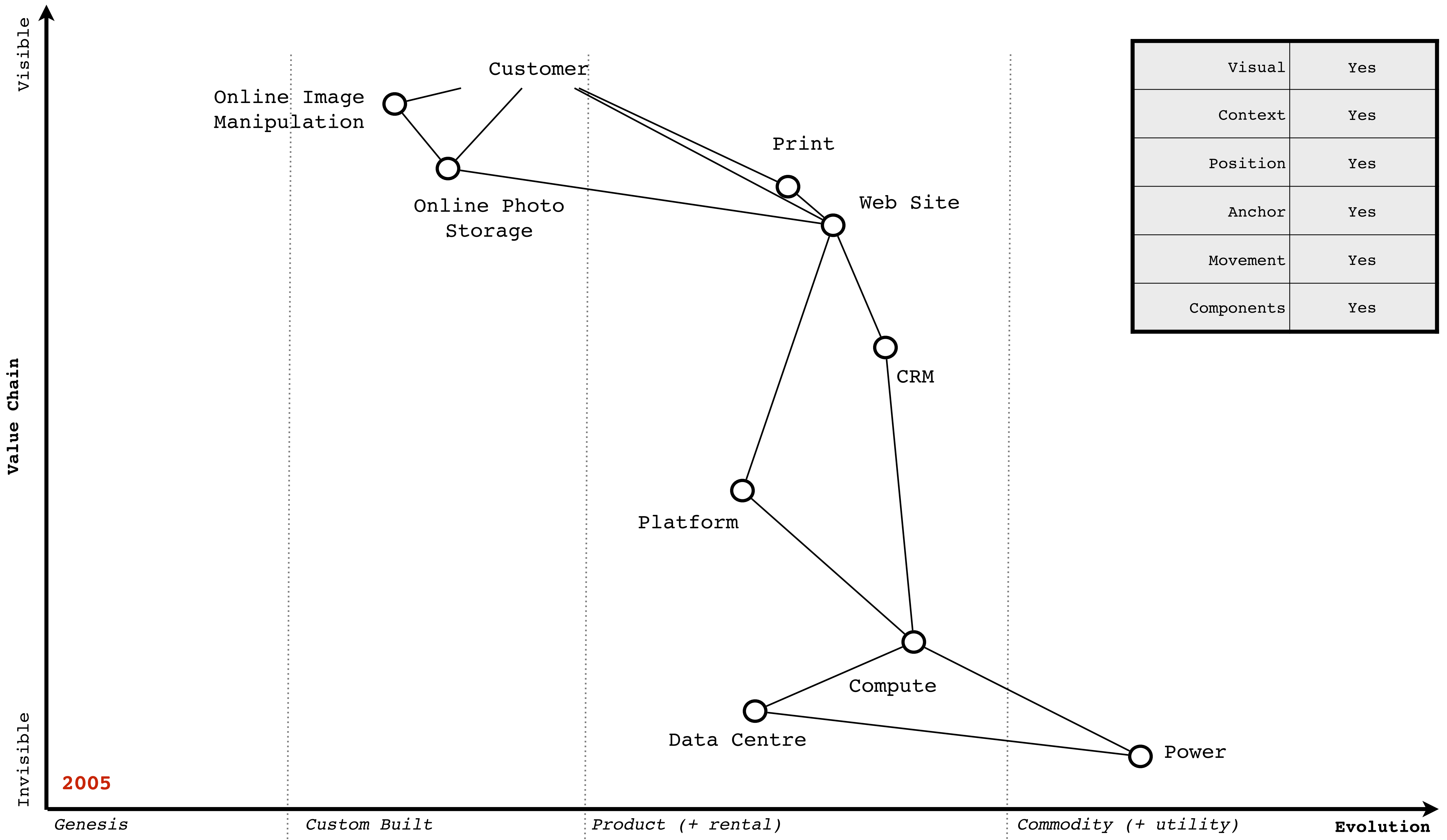
Evolution = Change = Movement





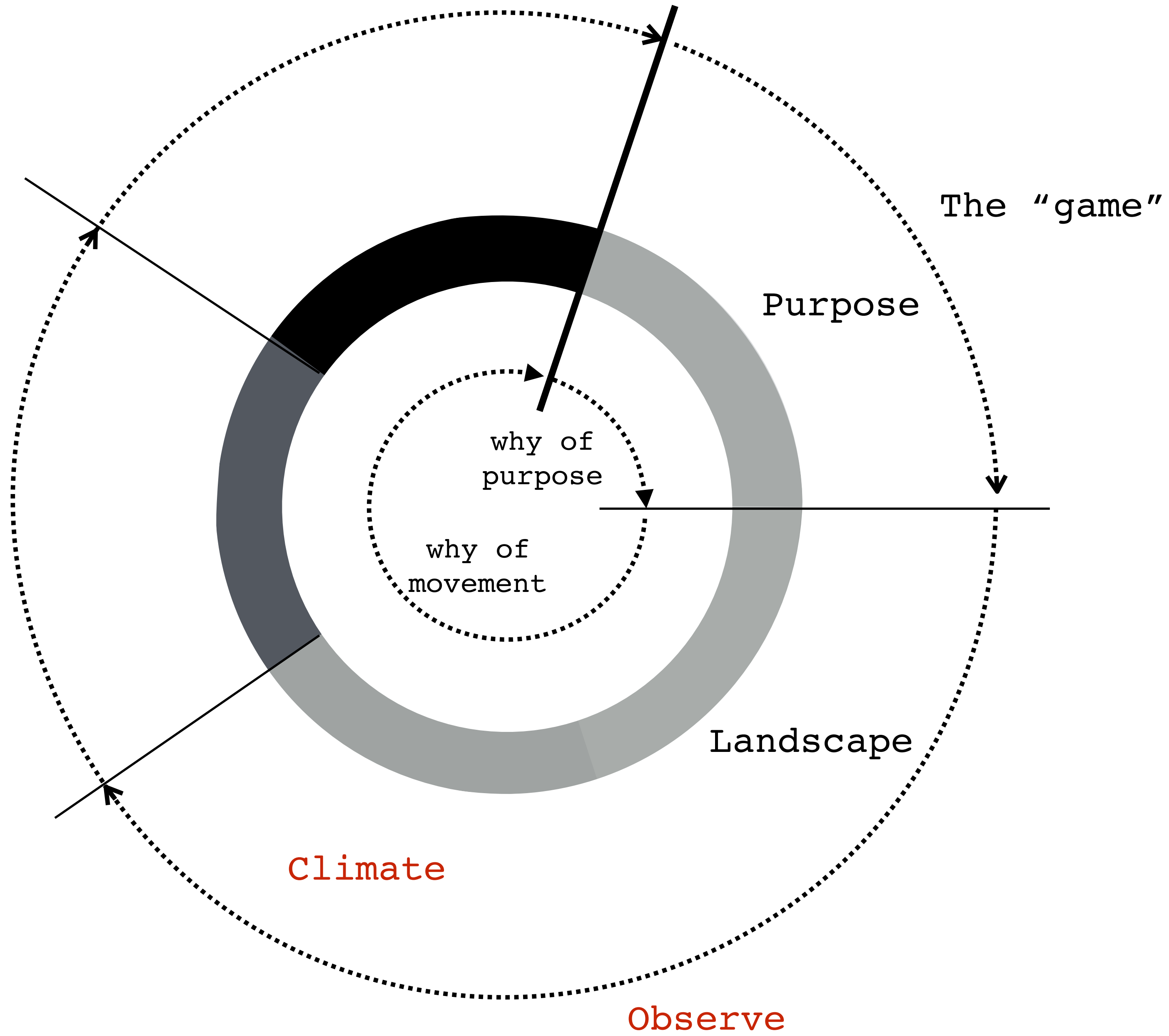
Visual	Yes
Context	Yes
Position	Yes
Anchor	Yes
Movement	NO
Components	Yes



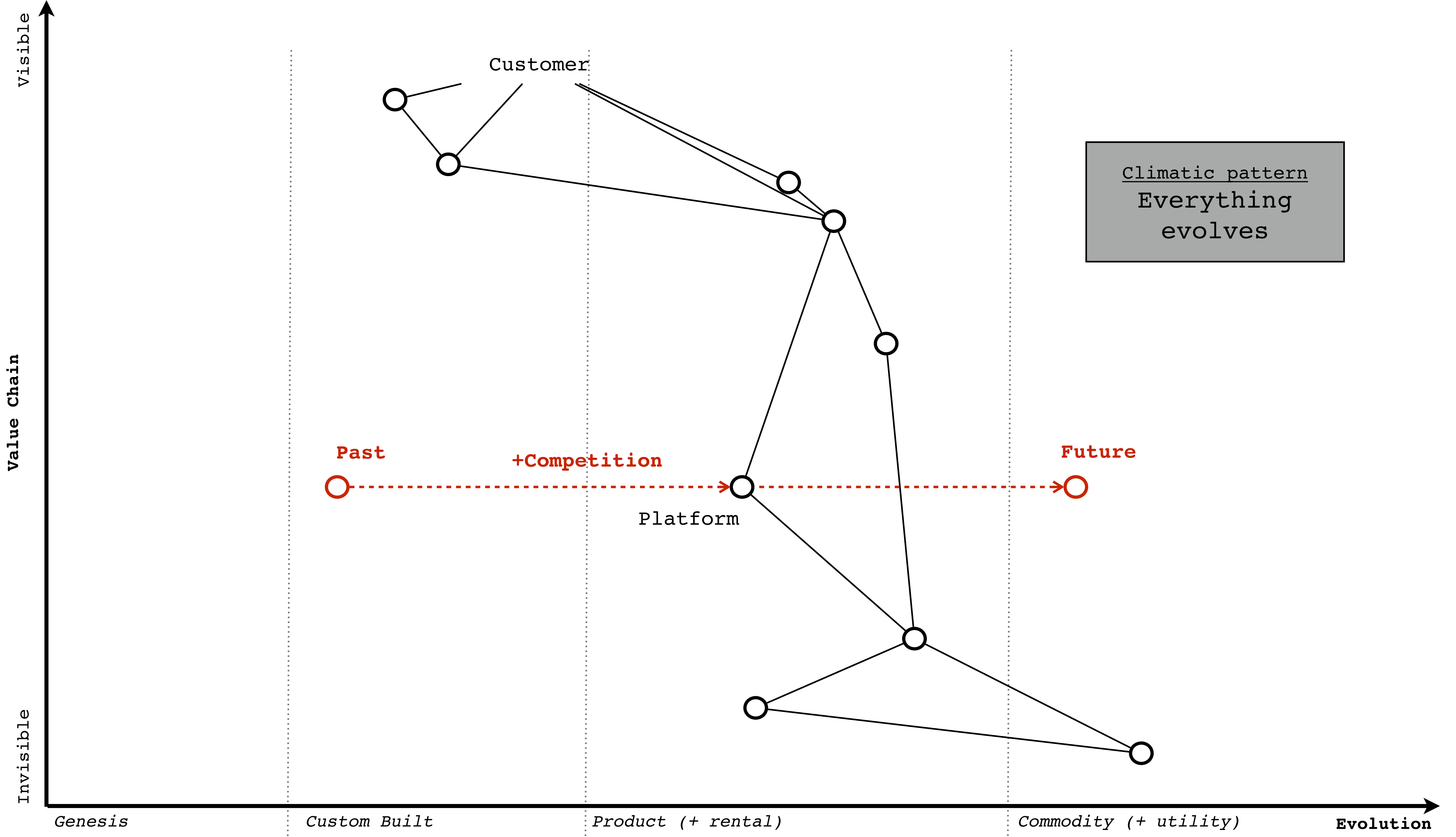


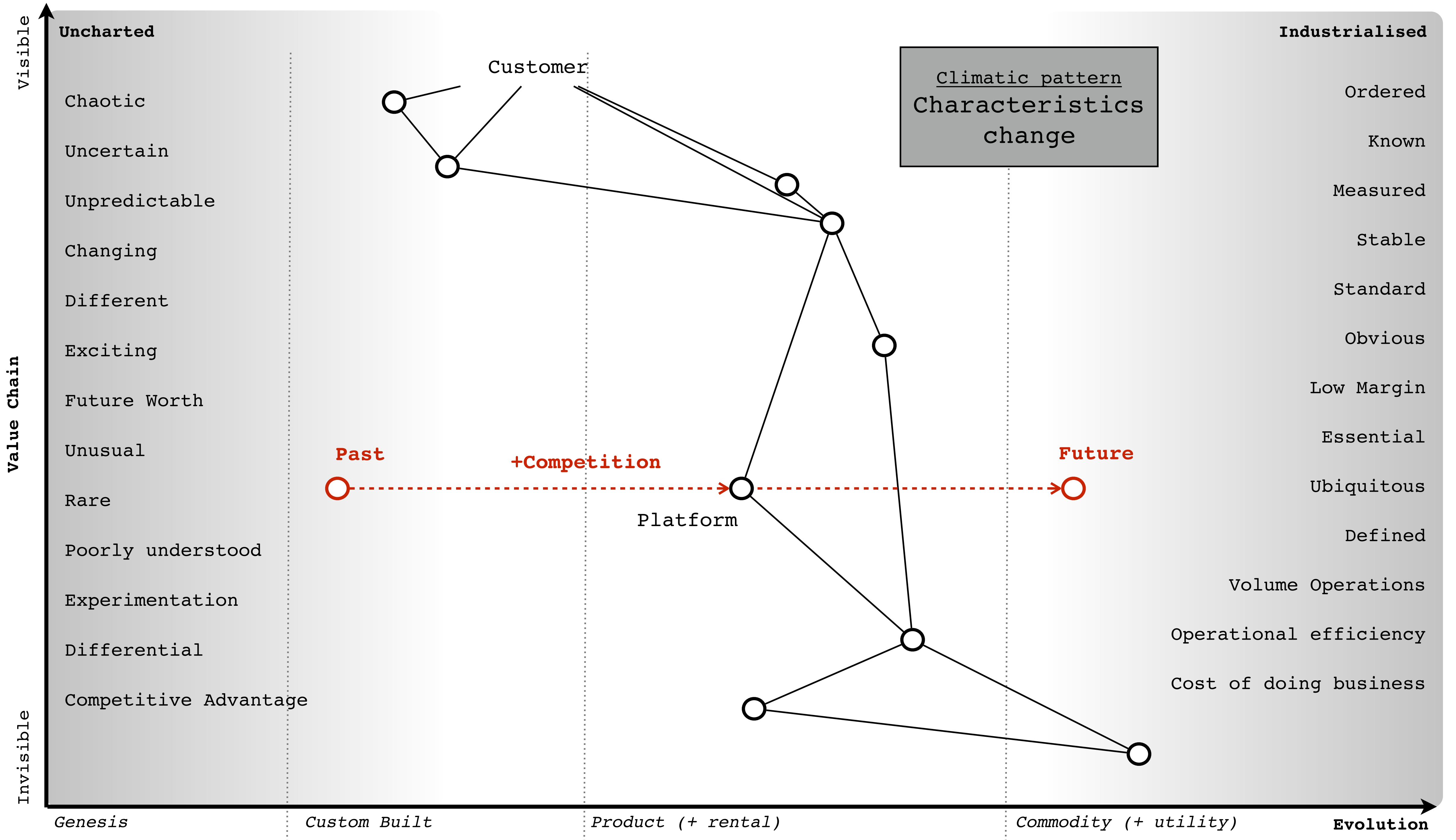


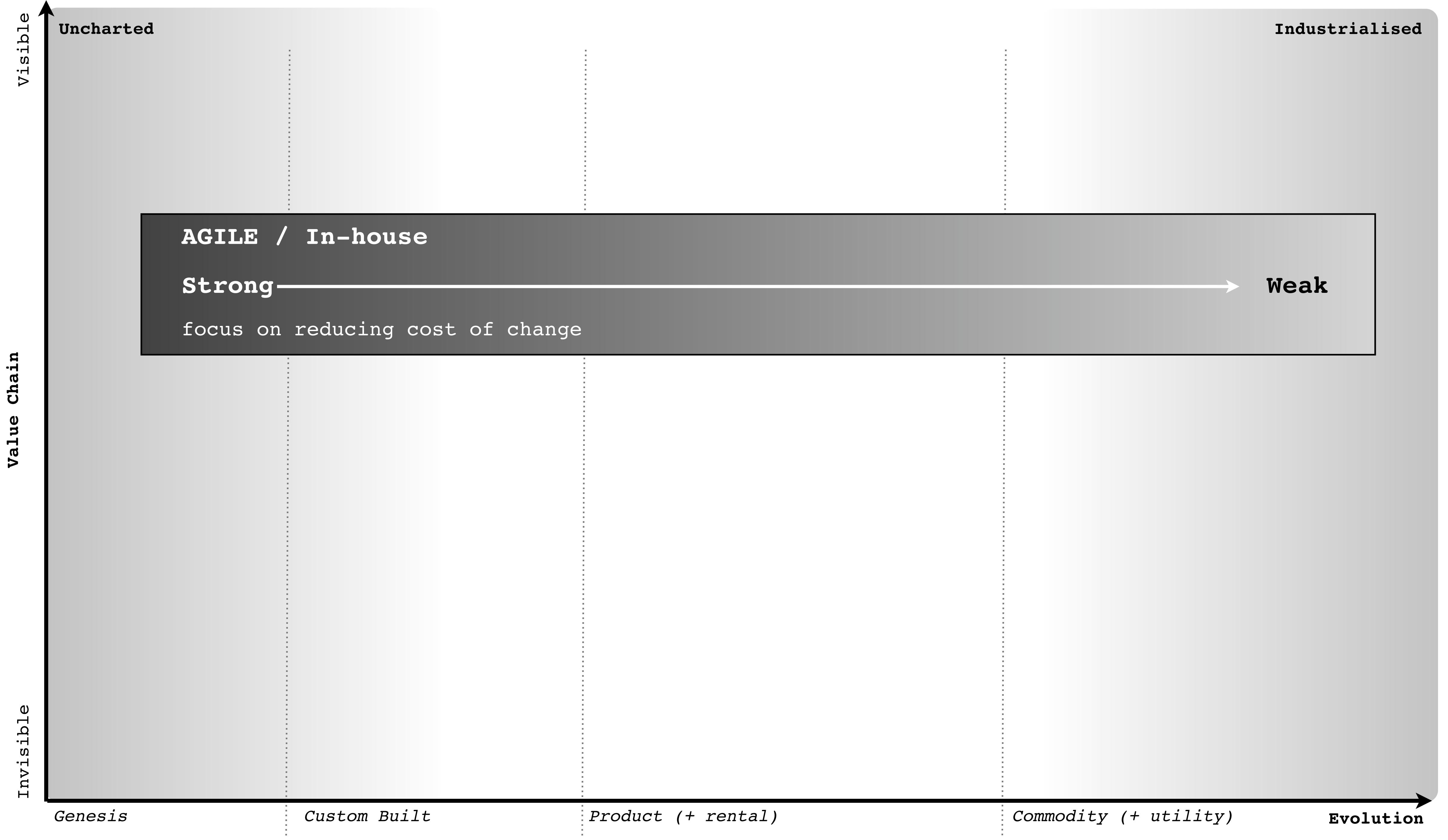
So what?

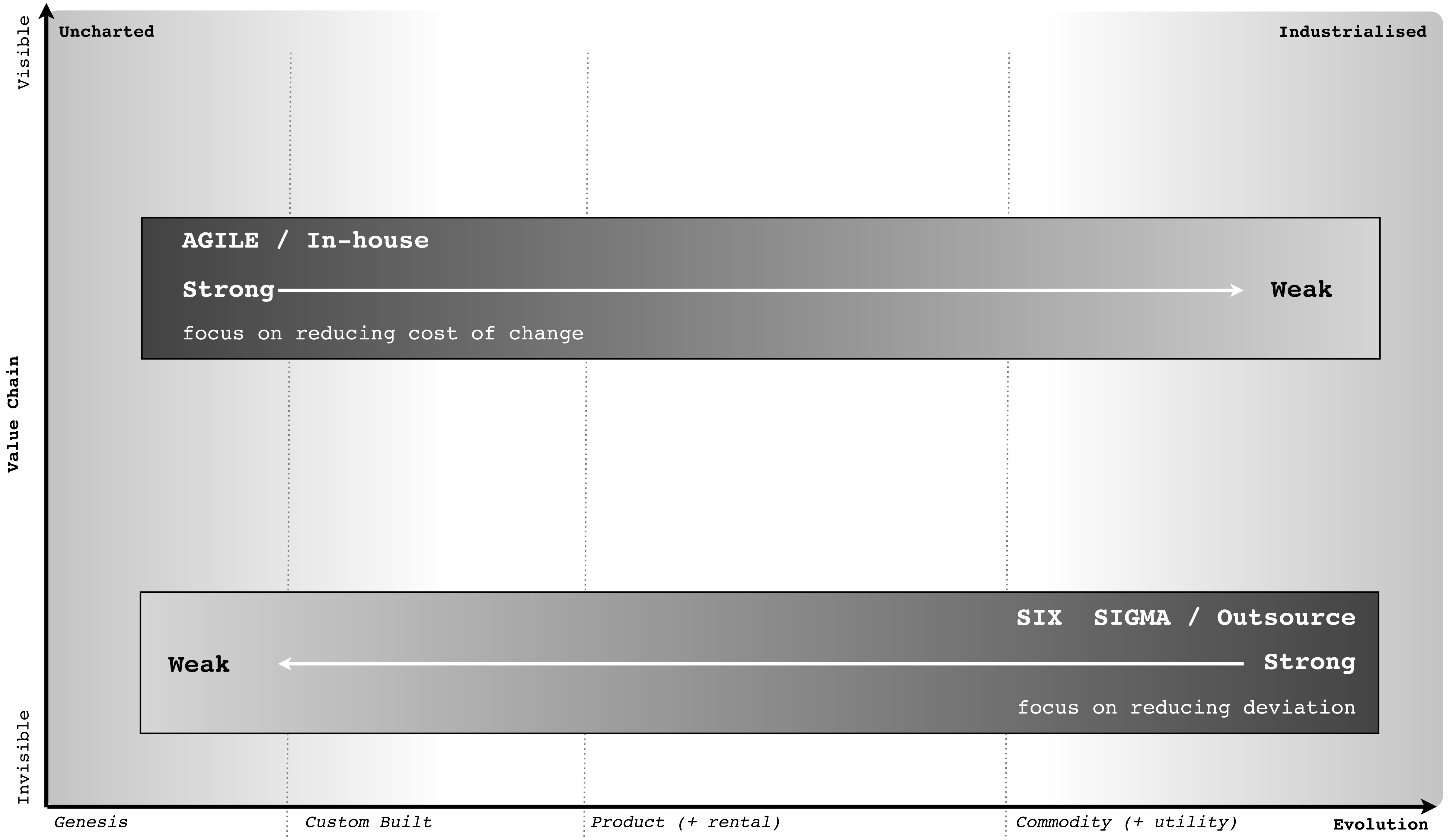


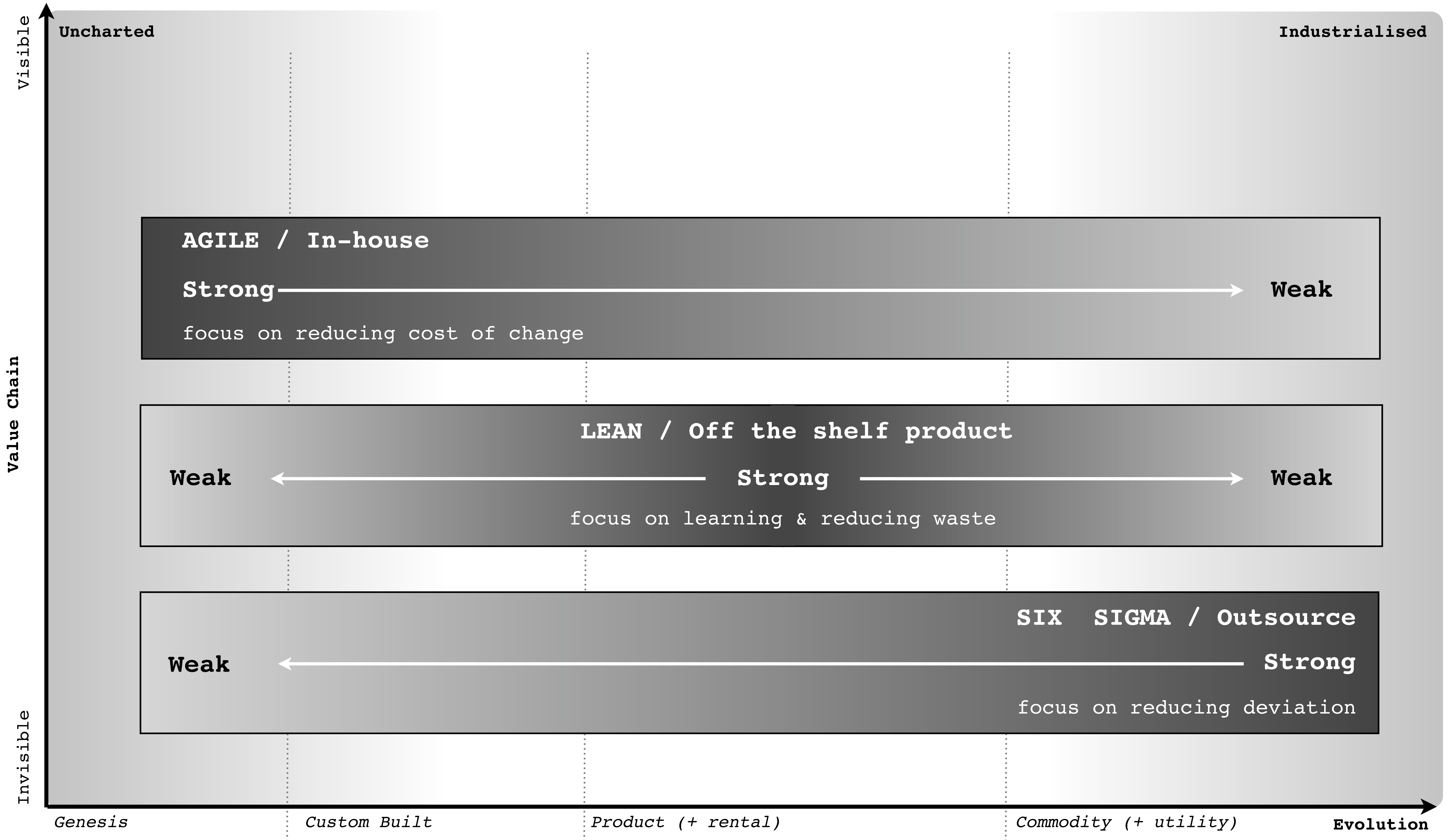
Climate
Rules that influence
the game

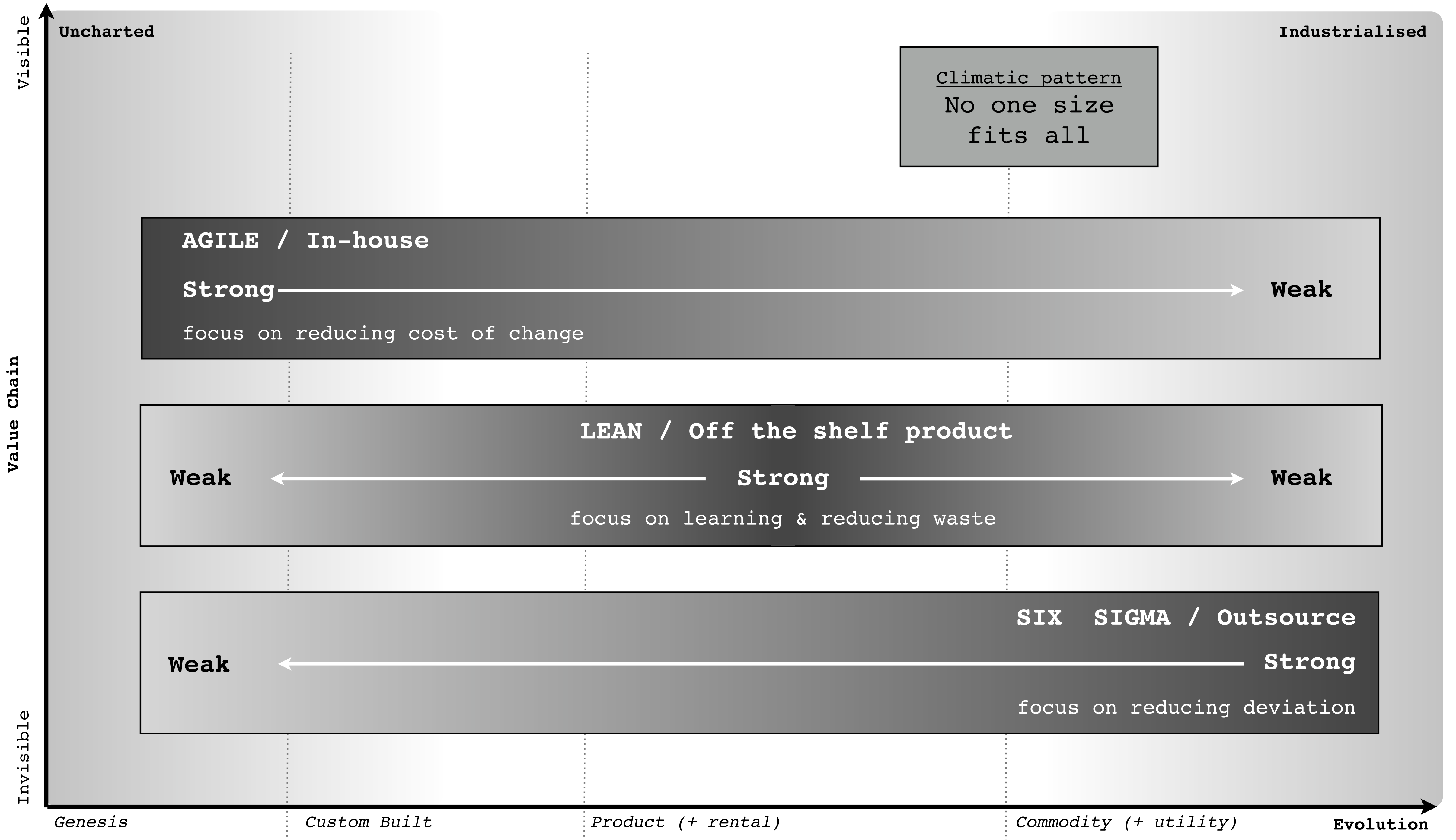


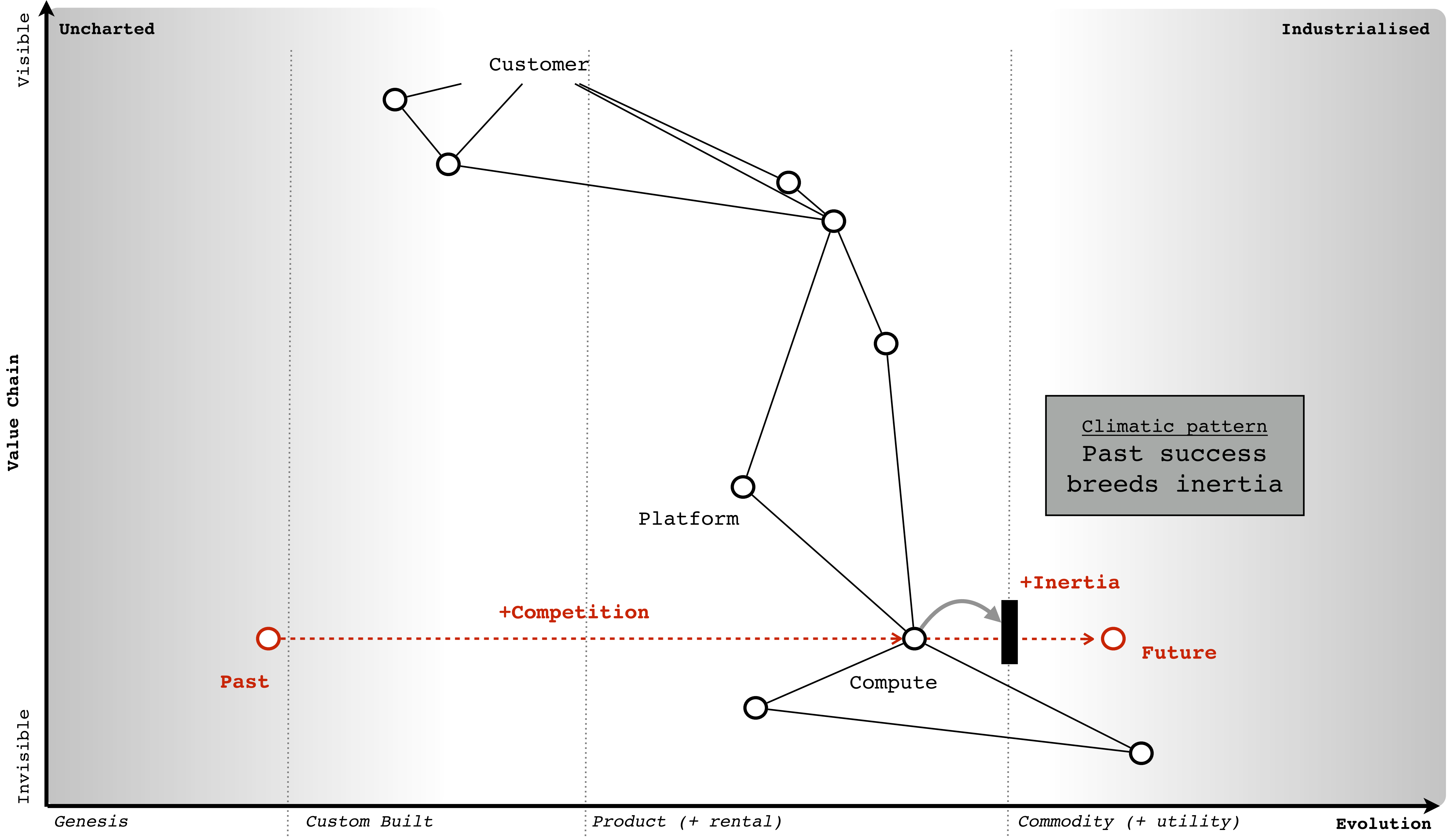












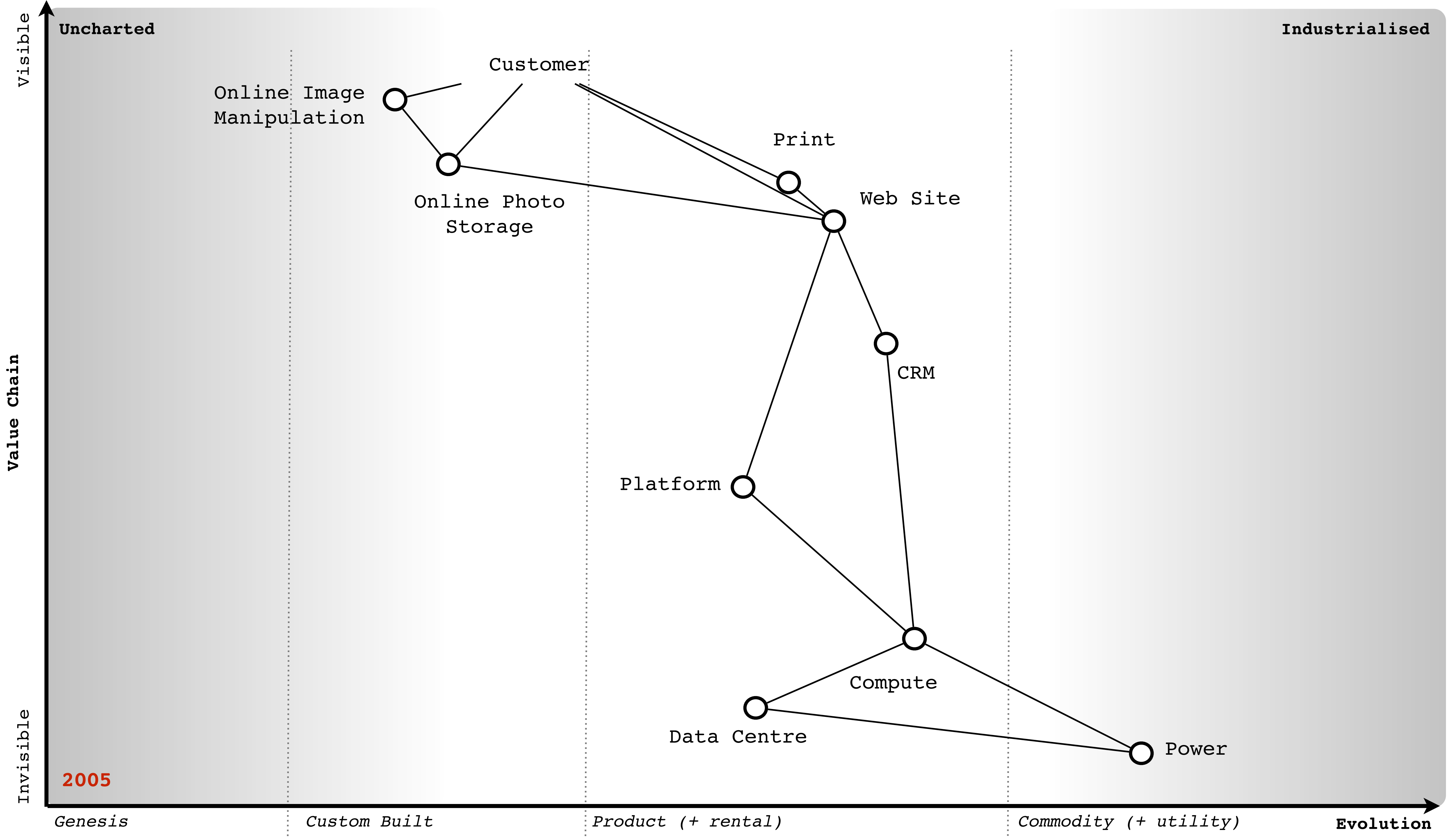


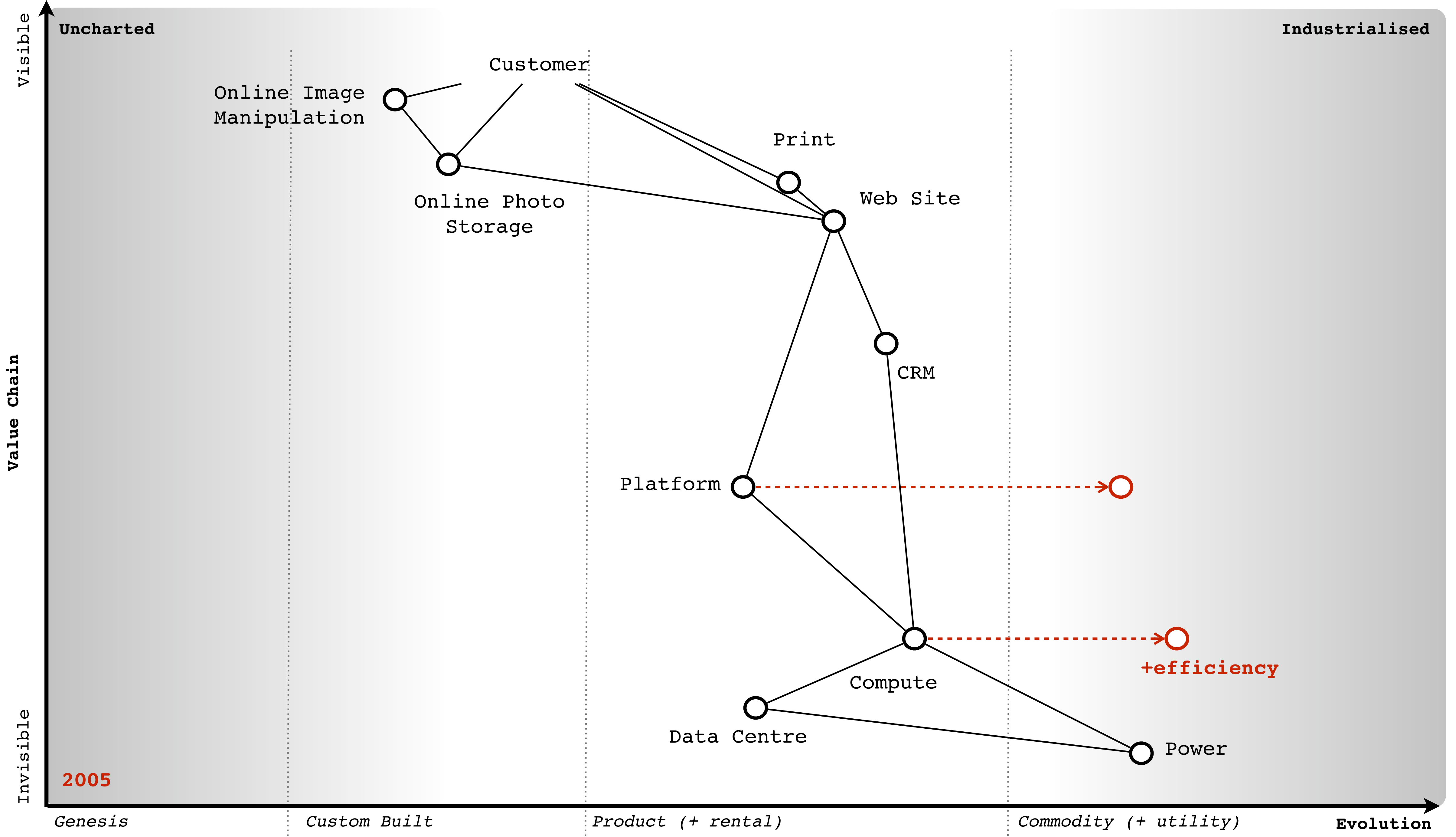
BLOCKBUSTER

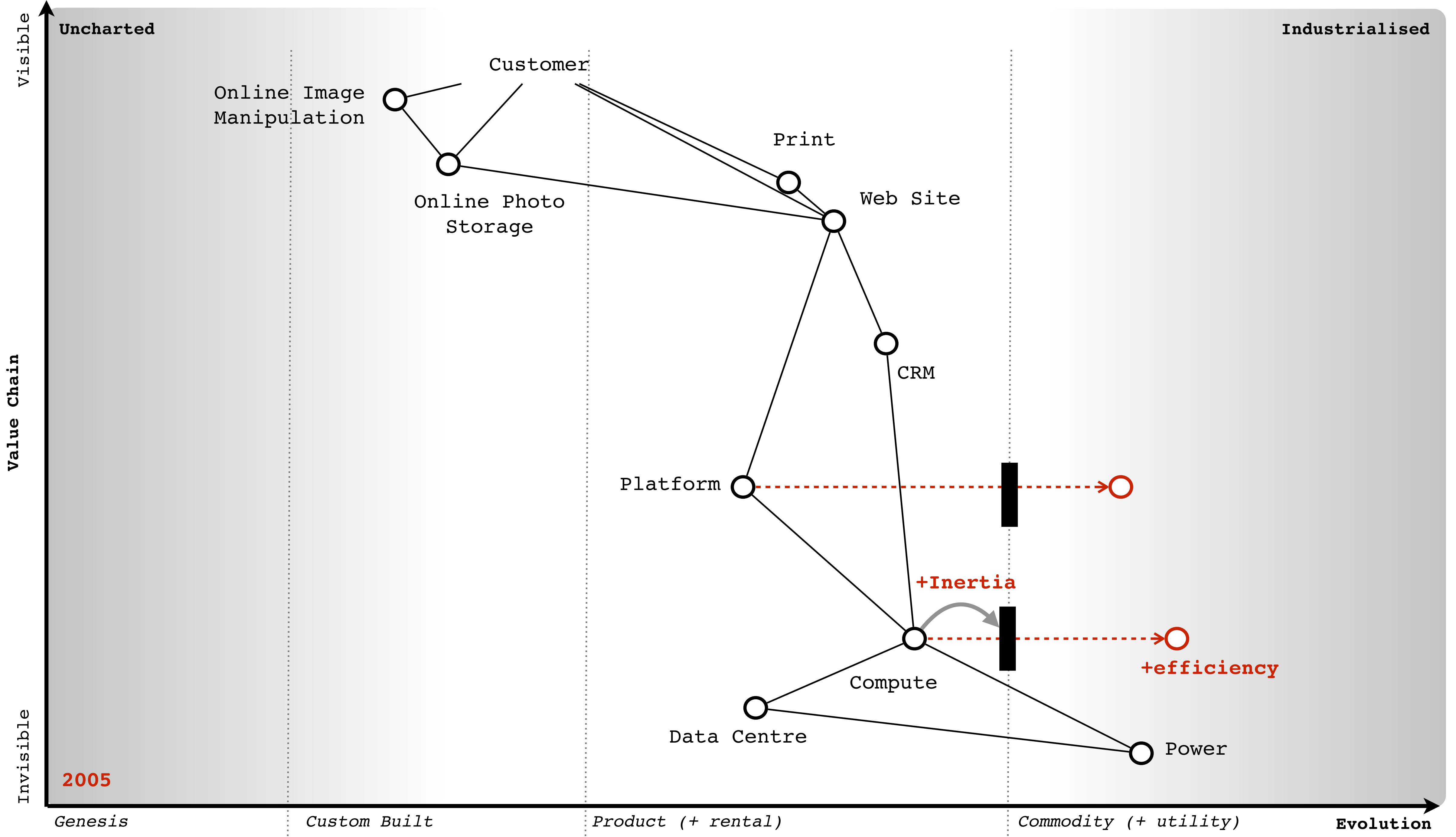


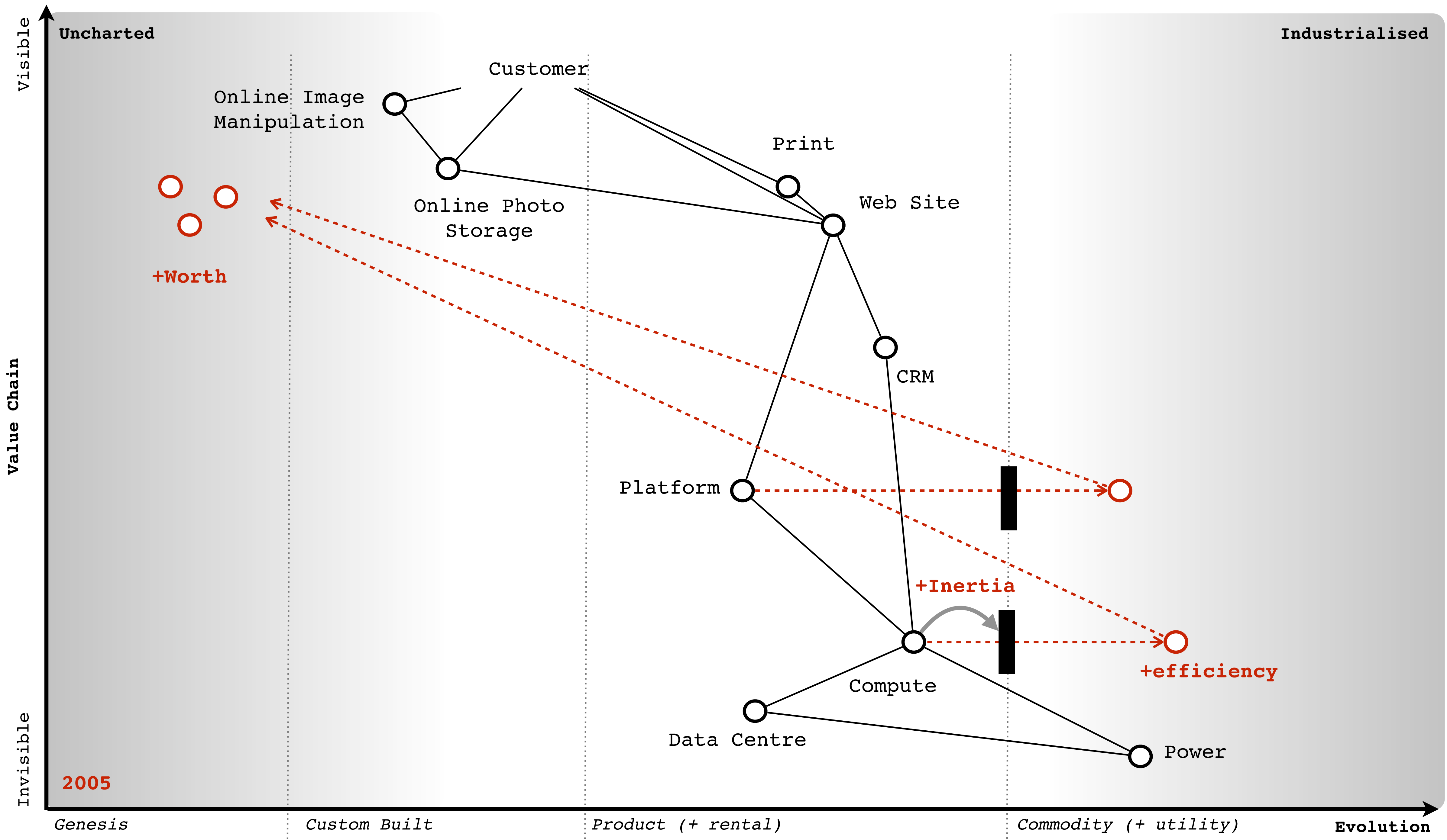
NETFLIX®

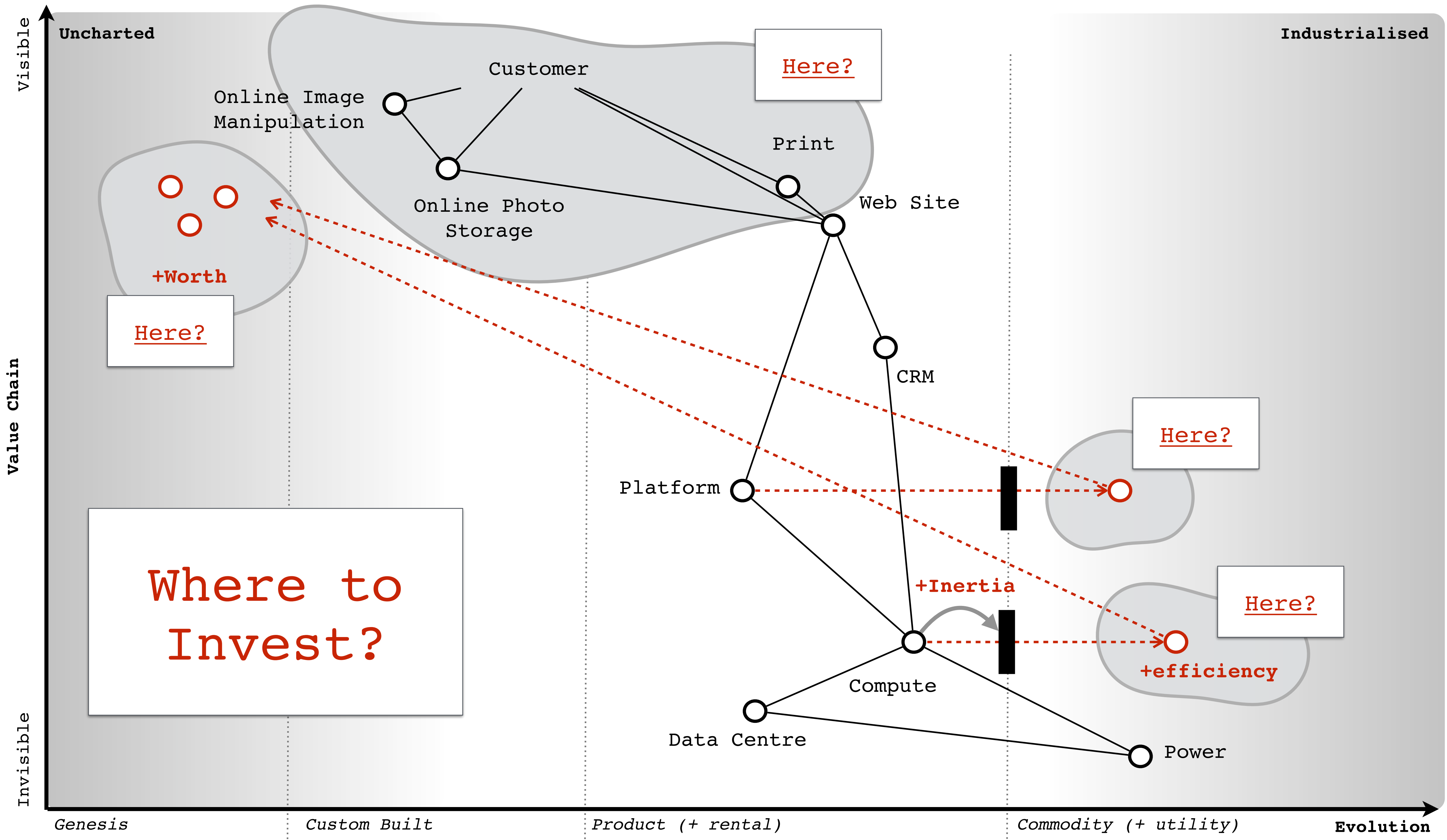












Cloud is for
startups ...



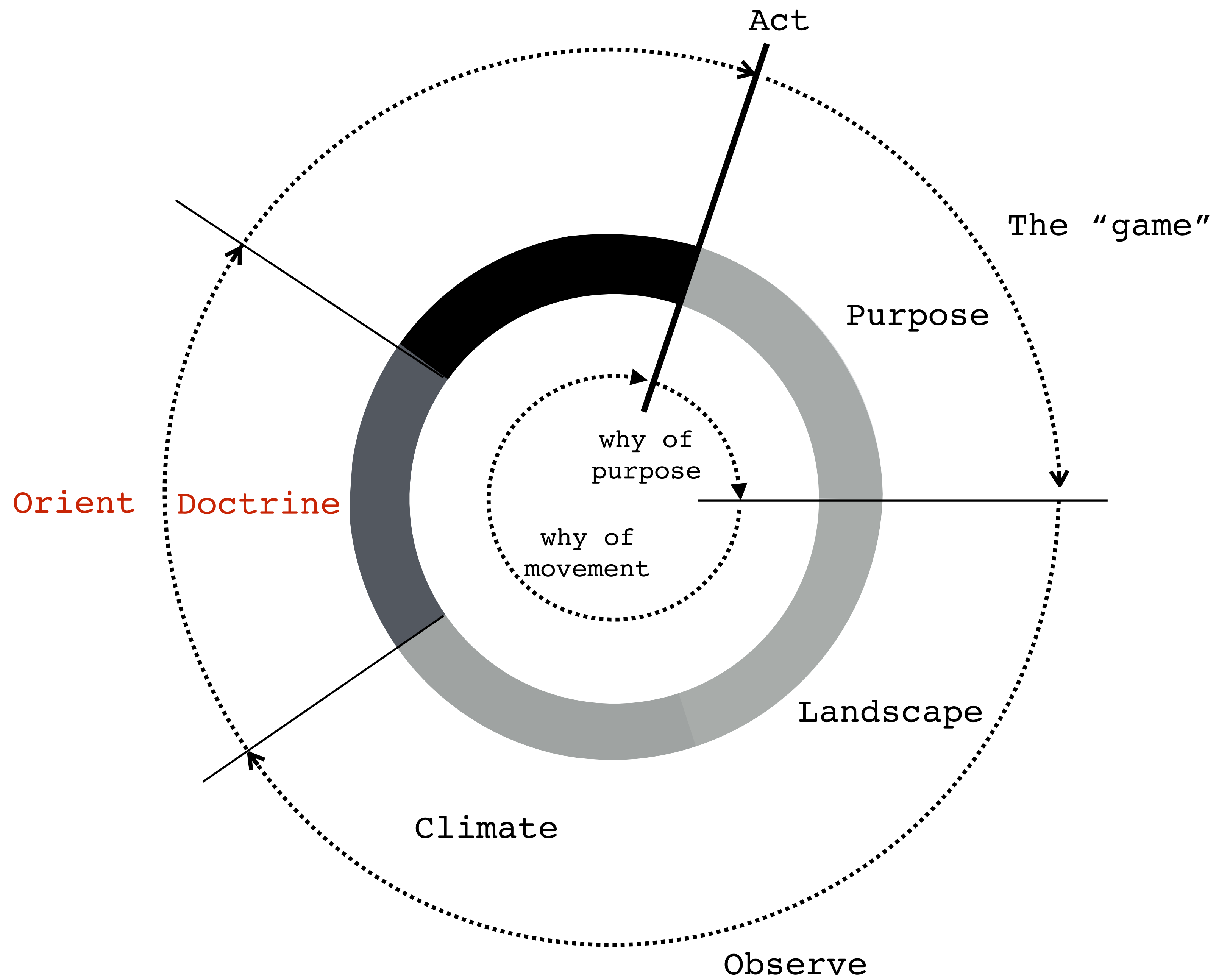


... it'll
dominate in
10 to 15
years



Burn
him!

Heretic

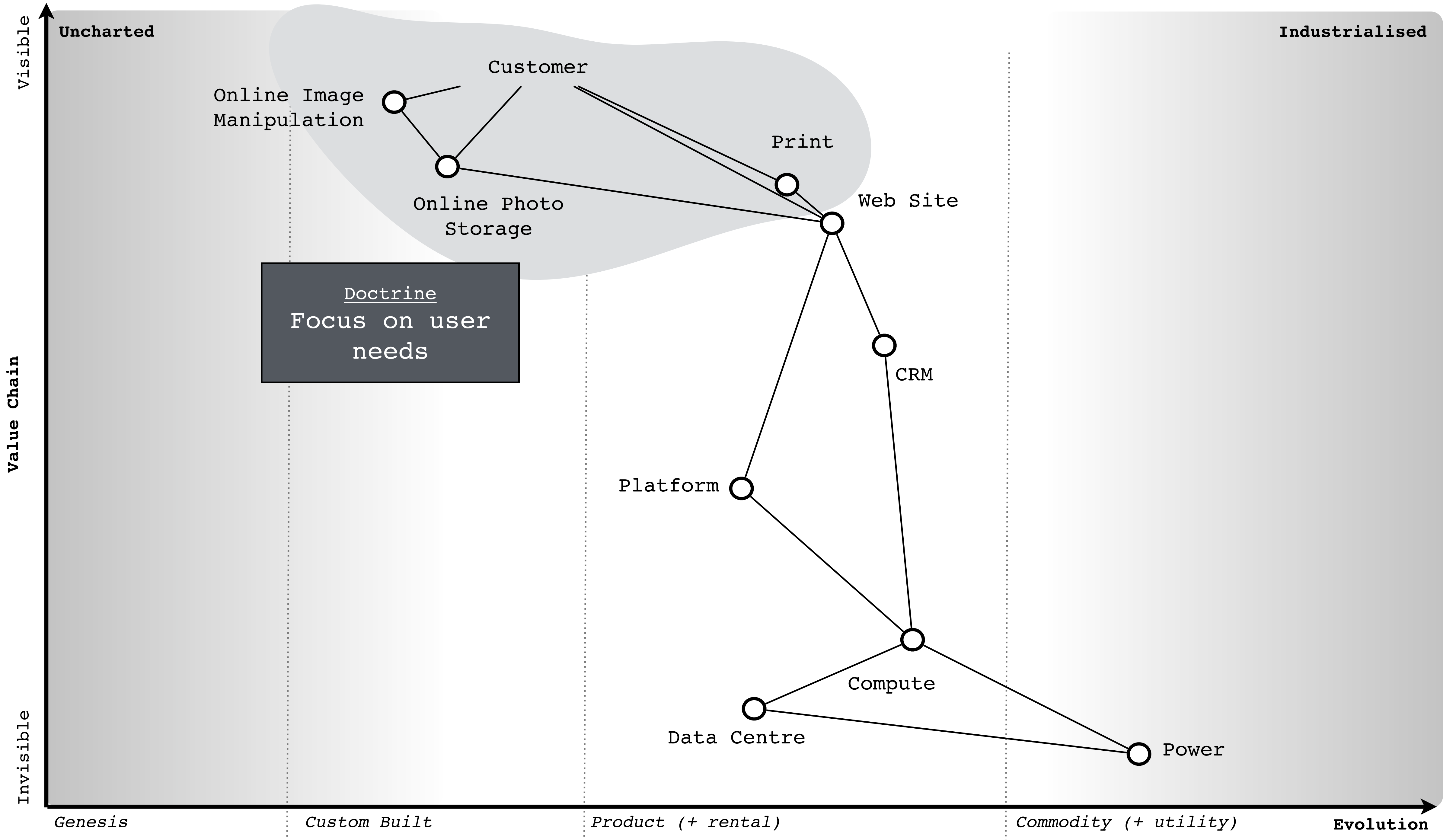


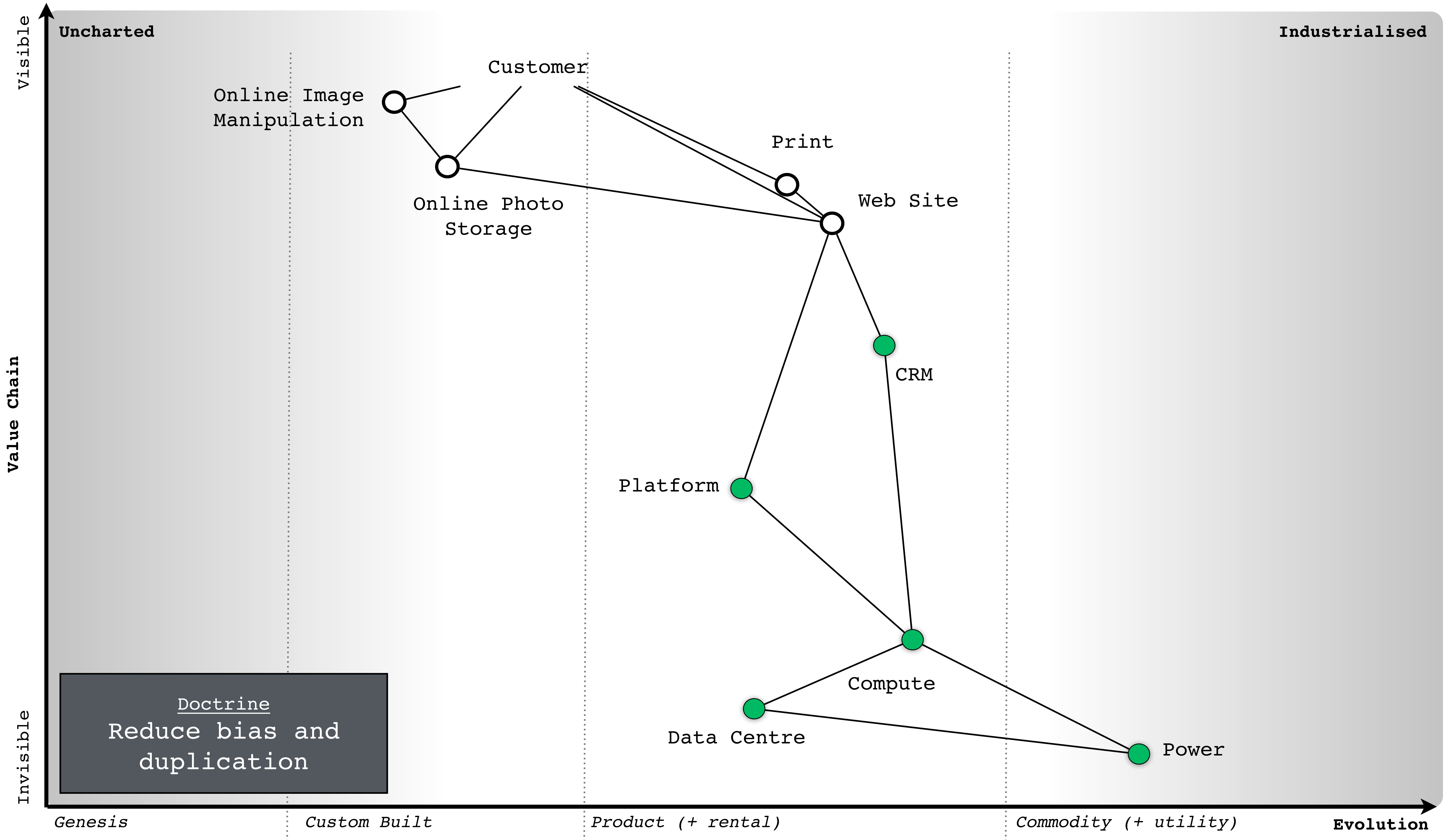
Doctrine

universally applicable
principles regardless of
context

Flanking versus
Firing

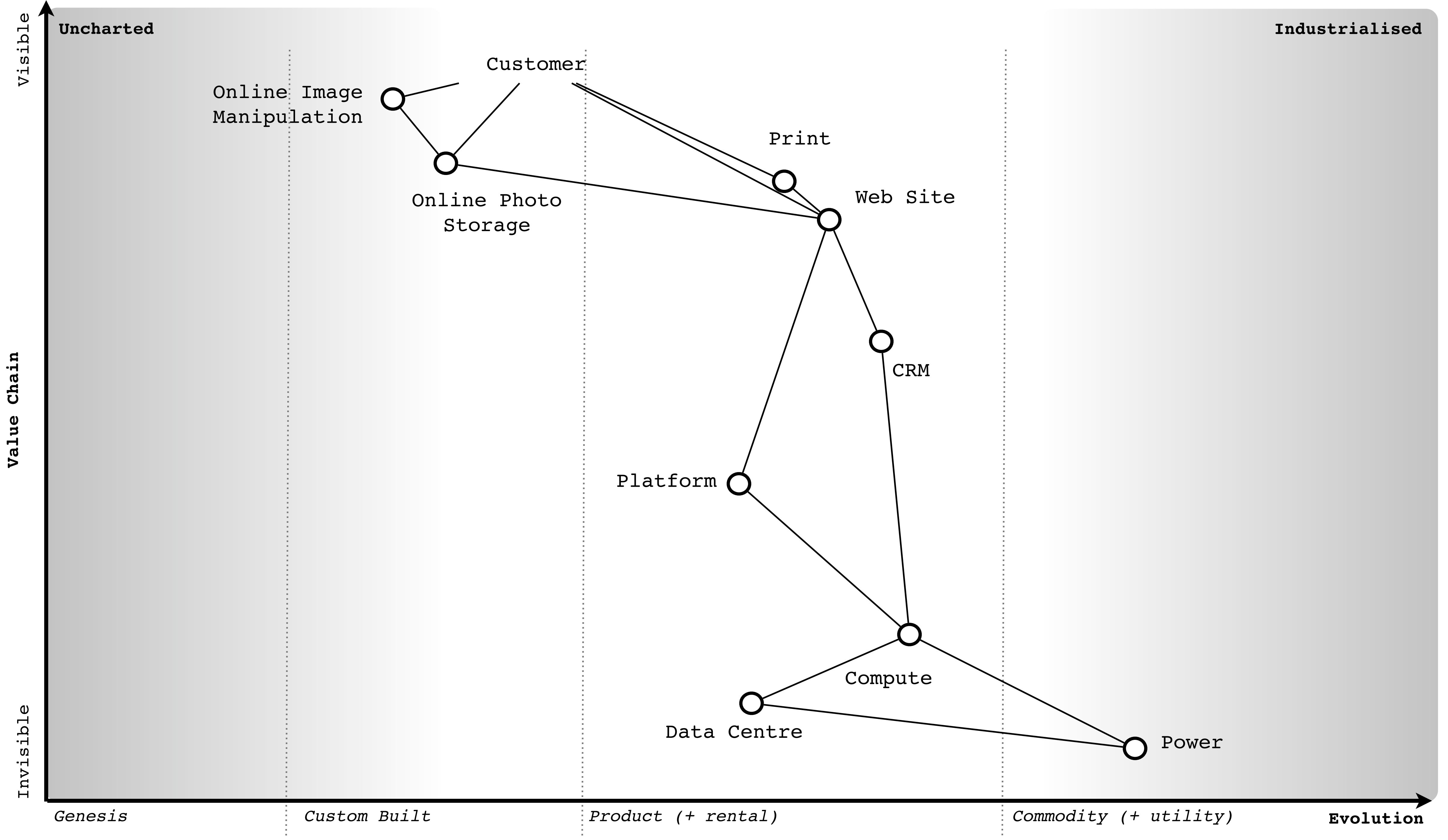


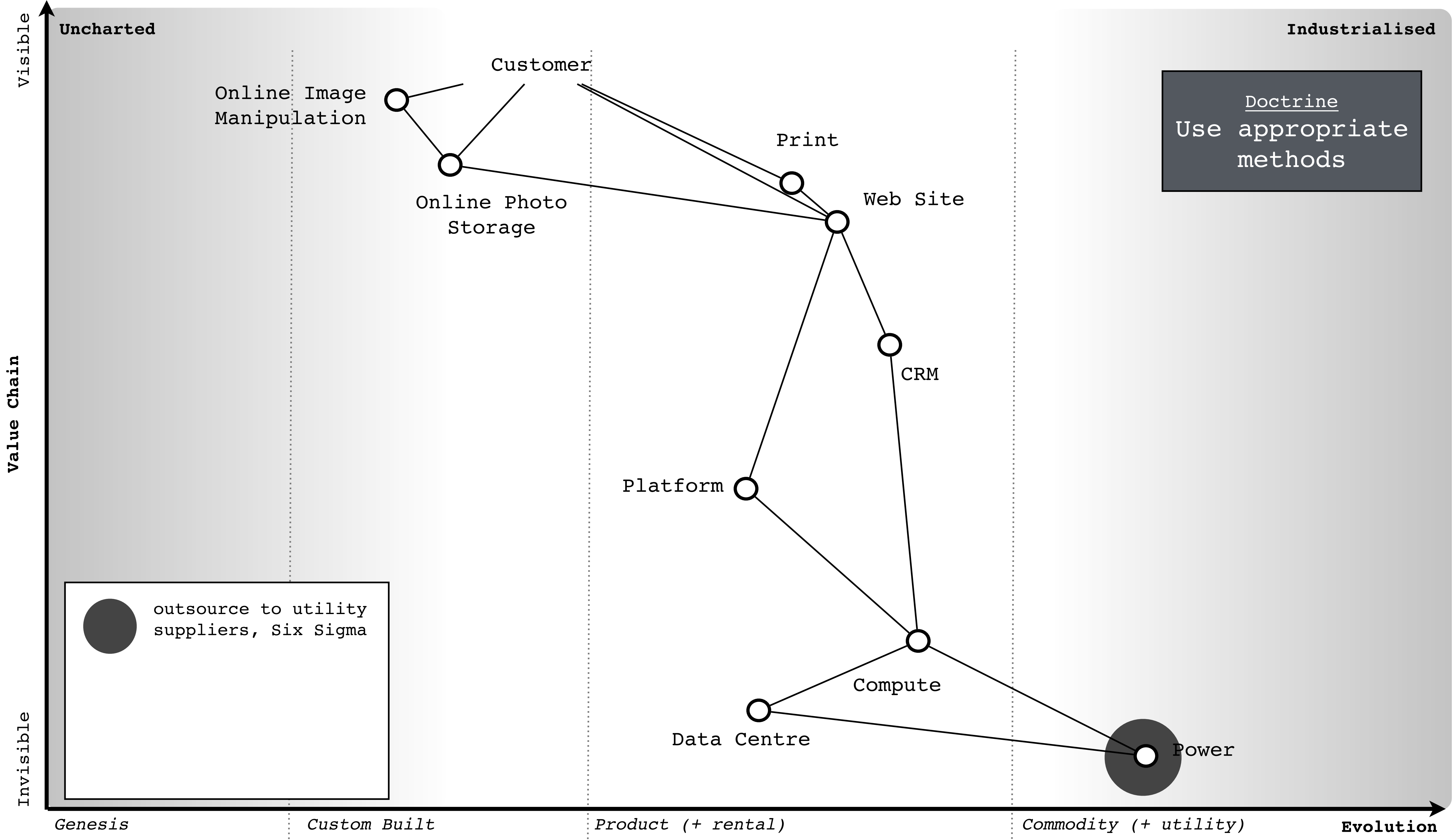


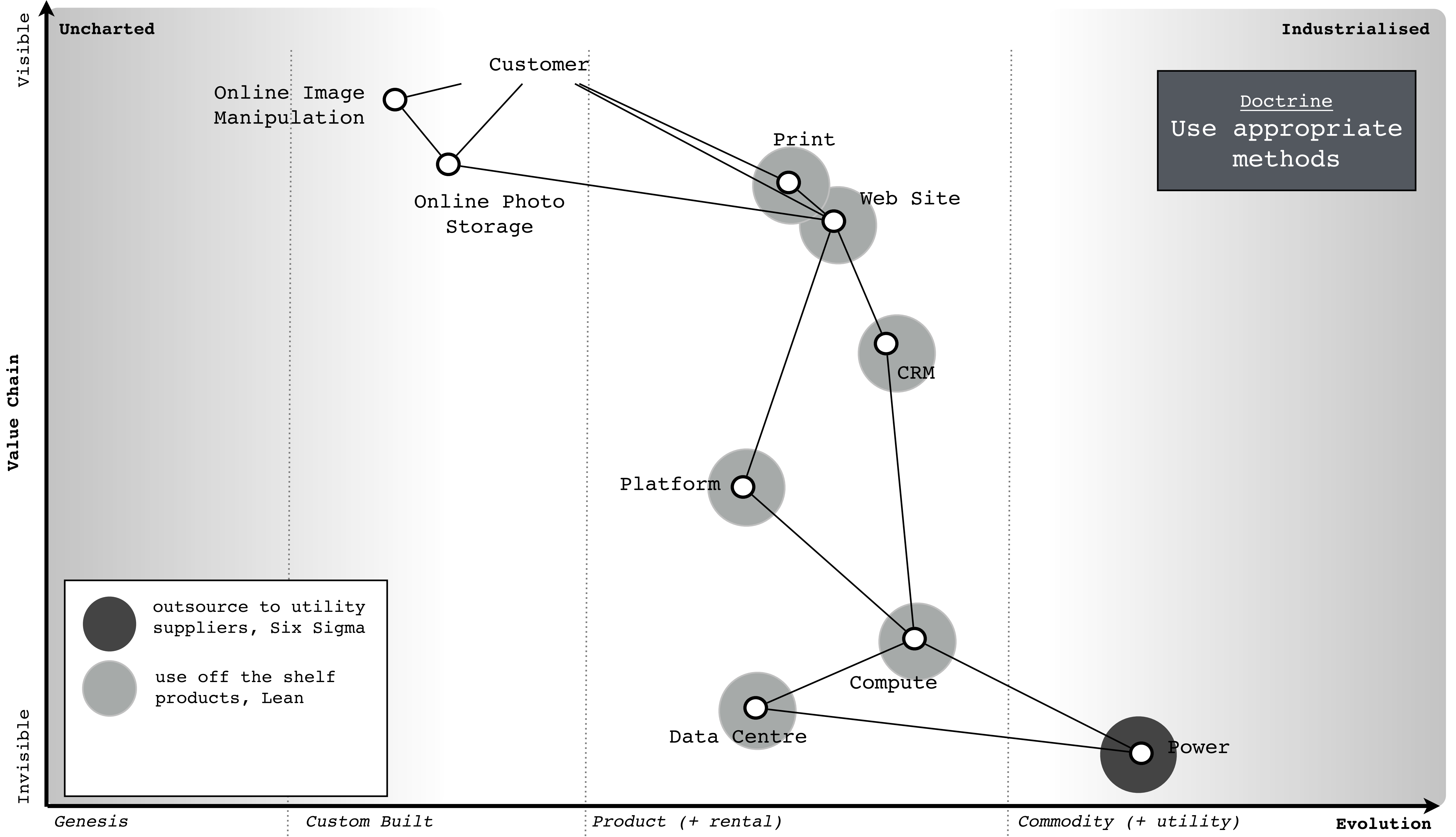


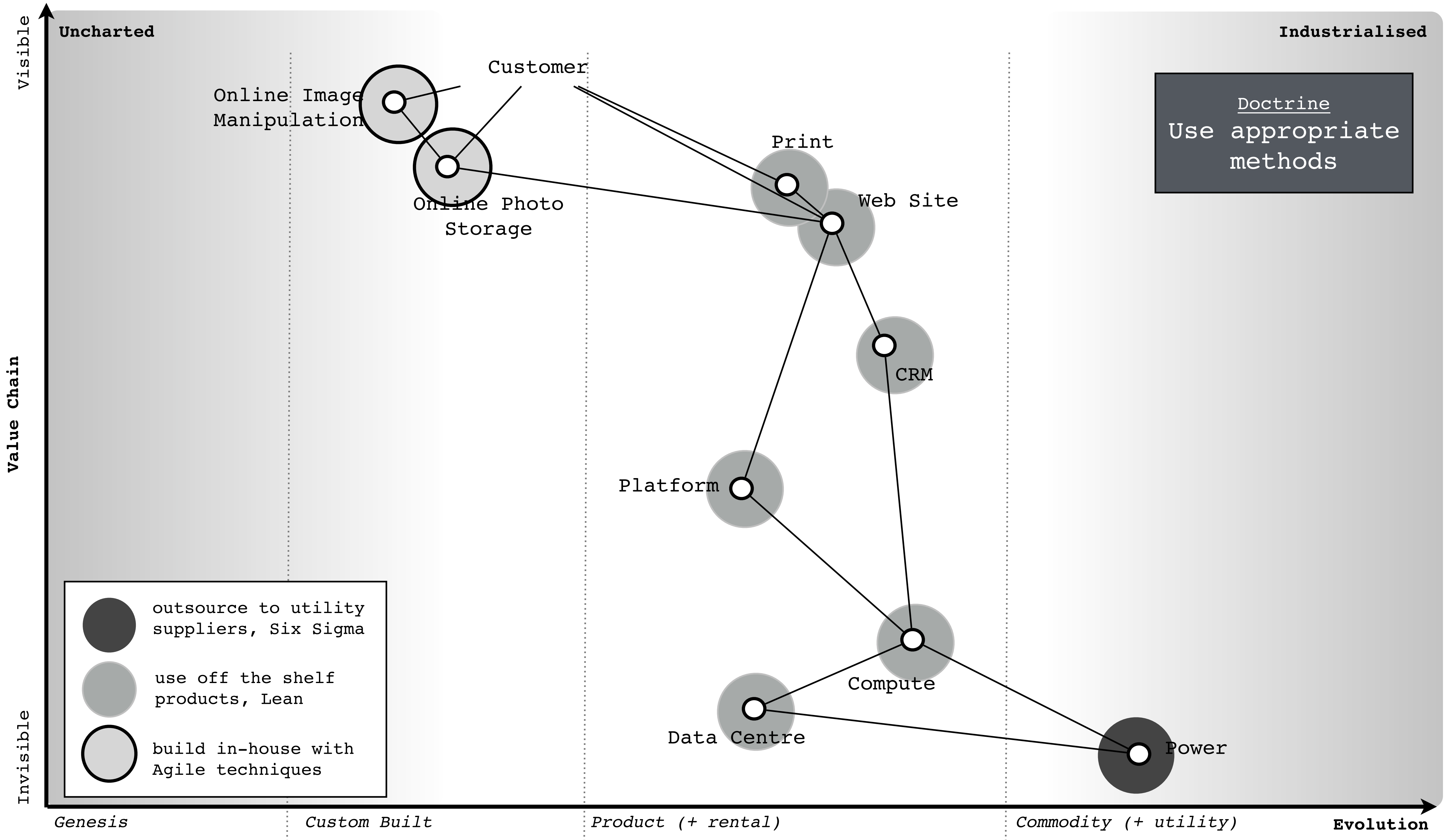
IT Weapons of Mass Duplication - Leader Board

Number of Duplicate Efforts in a single Organisation	Technology Space	Industry
2,000+ (unconfirmed)	Accounting systems	Global Defence
1,000+ (estimated)	Risk management	Global Finance
380	ERP system	Global Energy
300+	ECM systems	Global Pharma
170	Cloud projects	Global Technology
118	Workflow systems	Government
22	Rules Engines	European Corporate
14	CRM system	National Bank
6	General Rule of Thumb	Everywhere

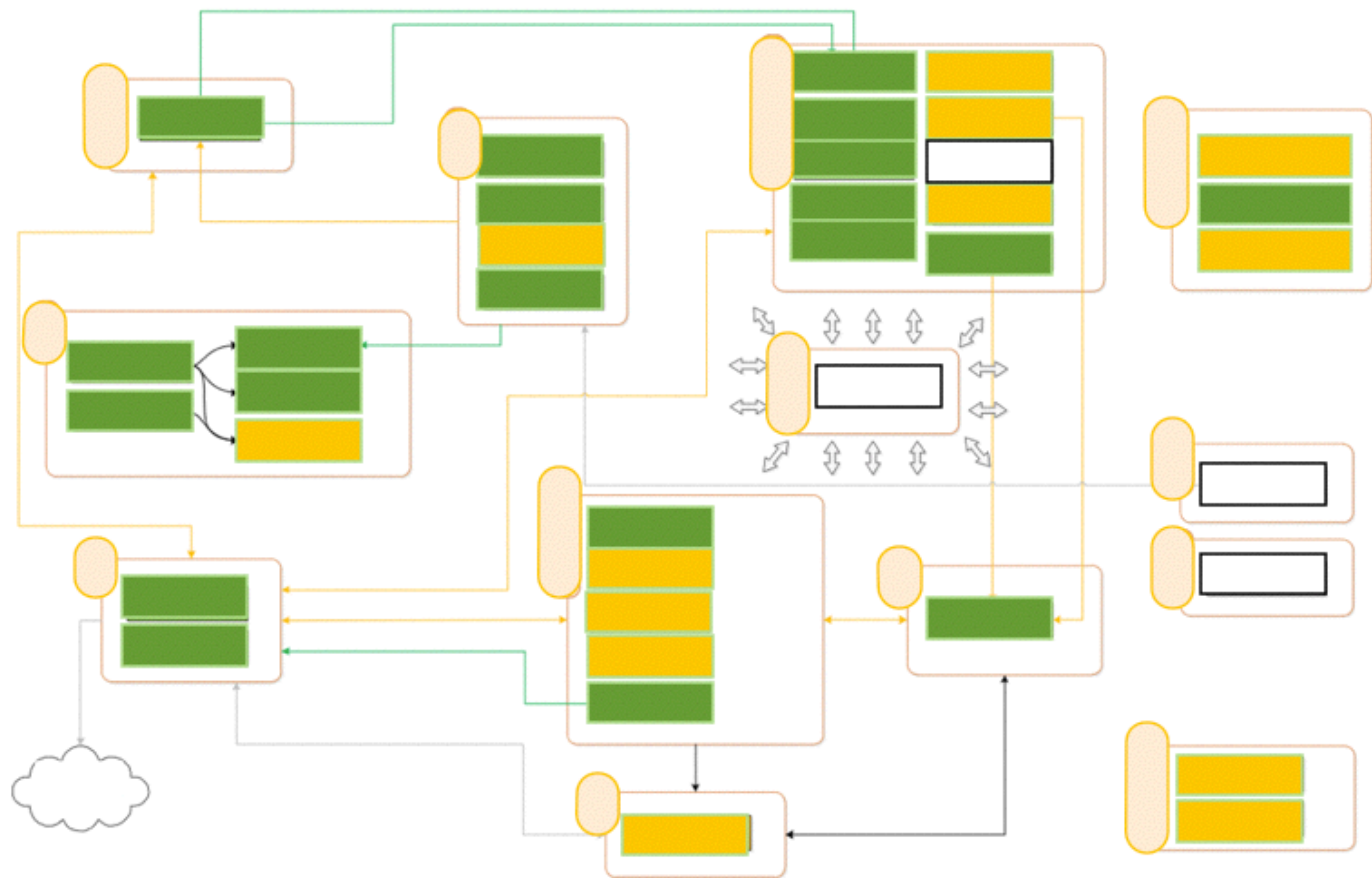


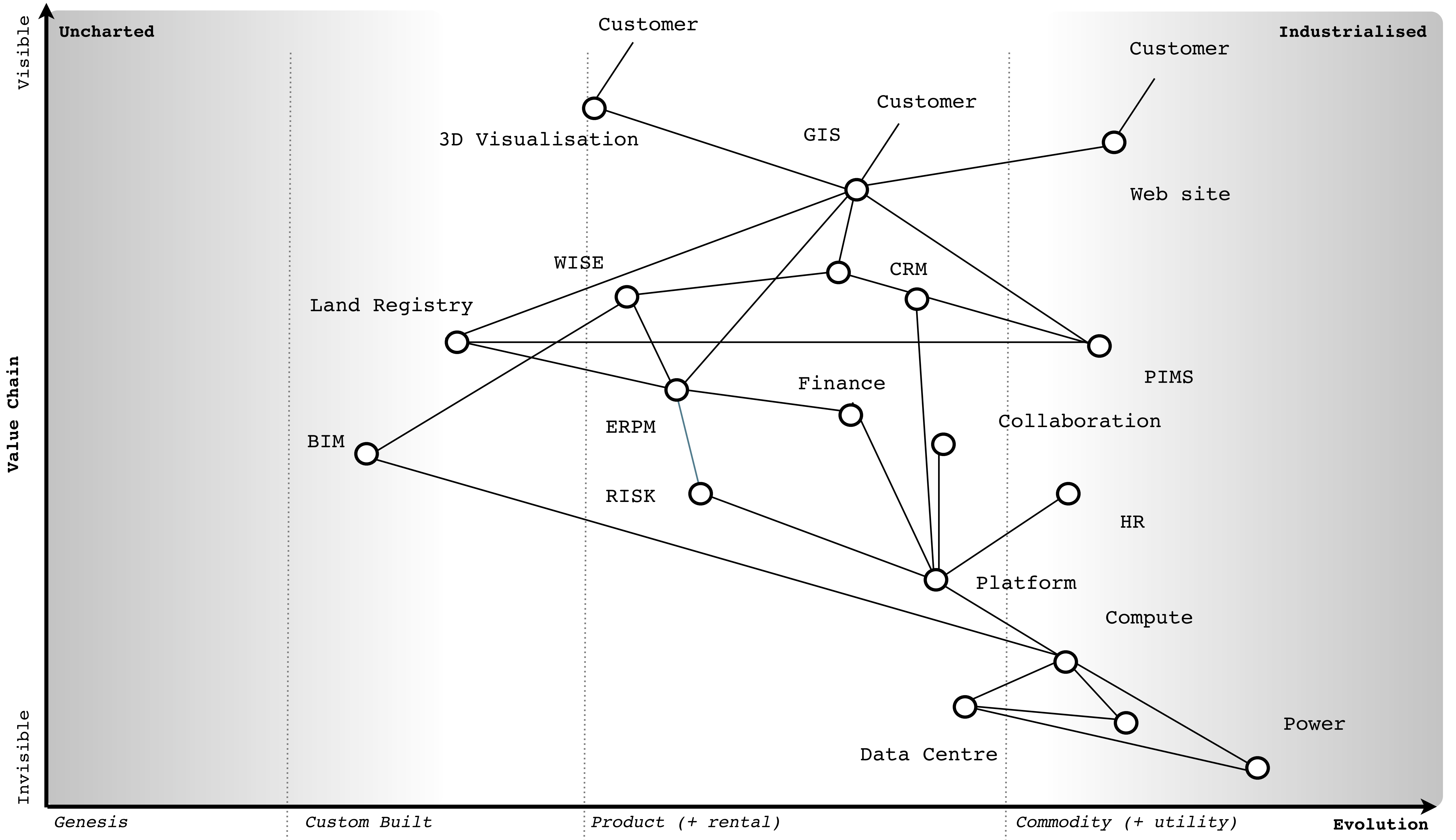


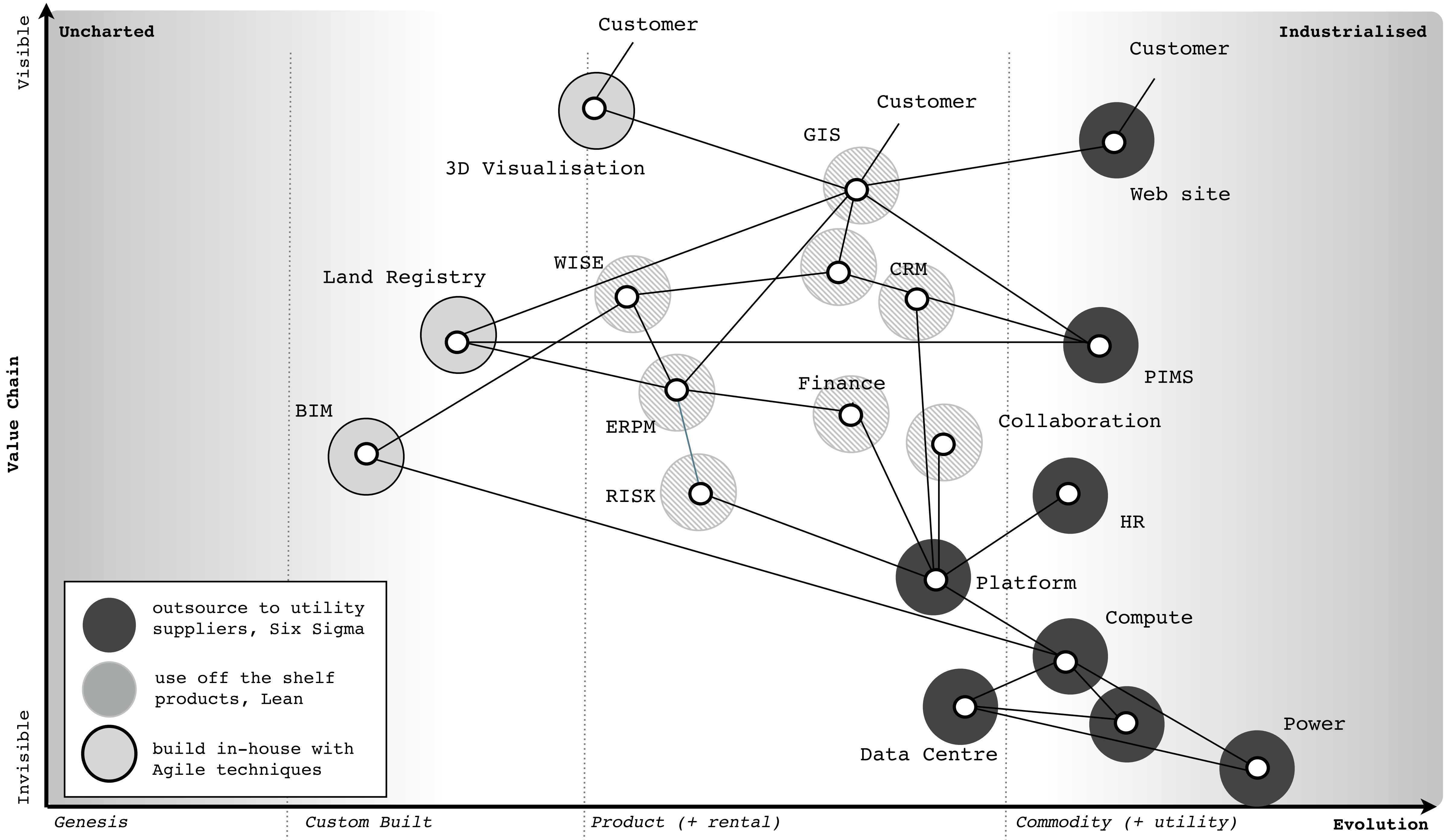






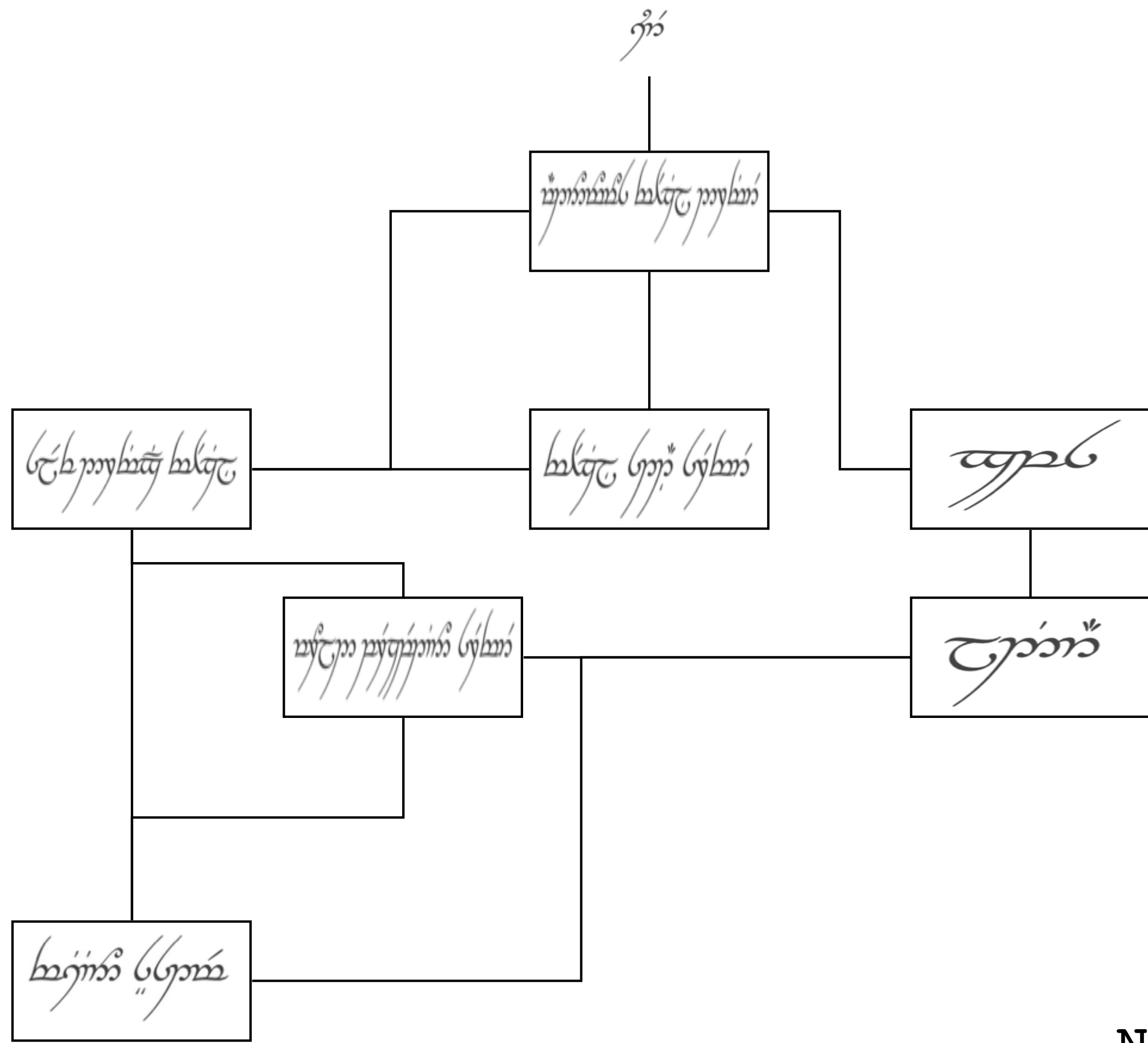




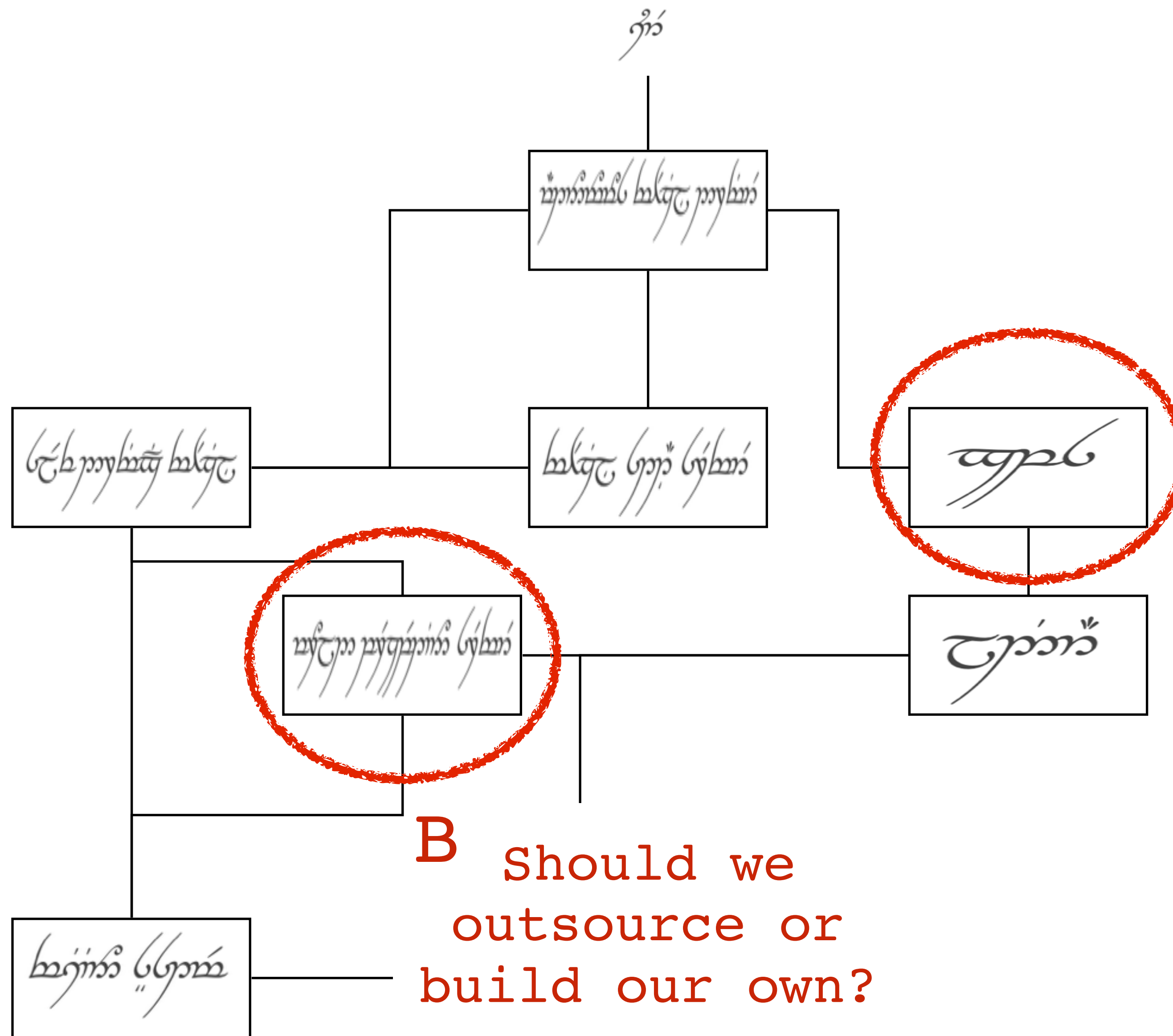




What is a
world perception
server?

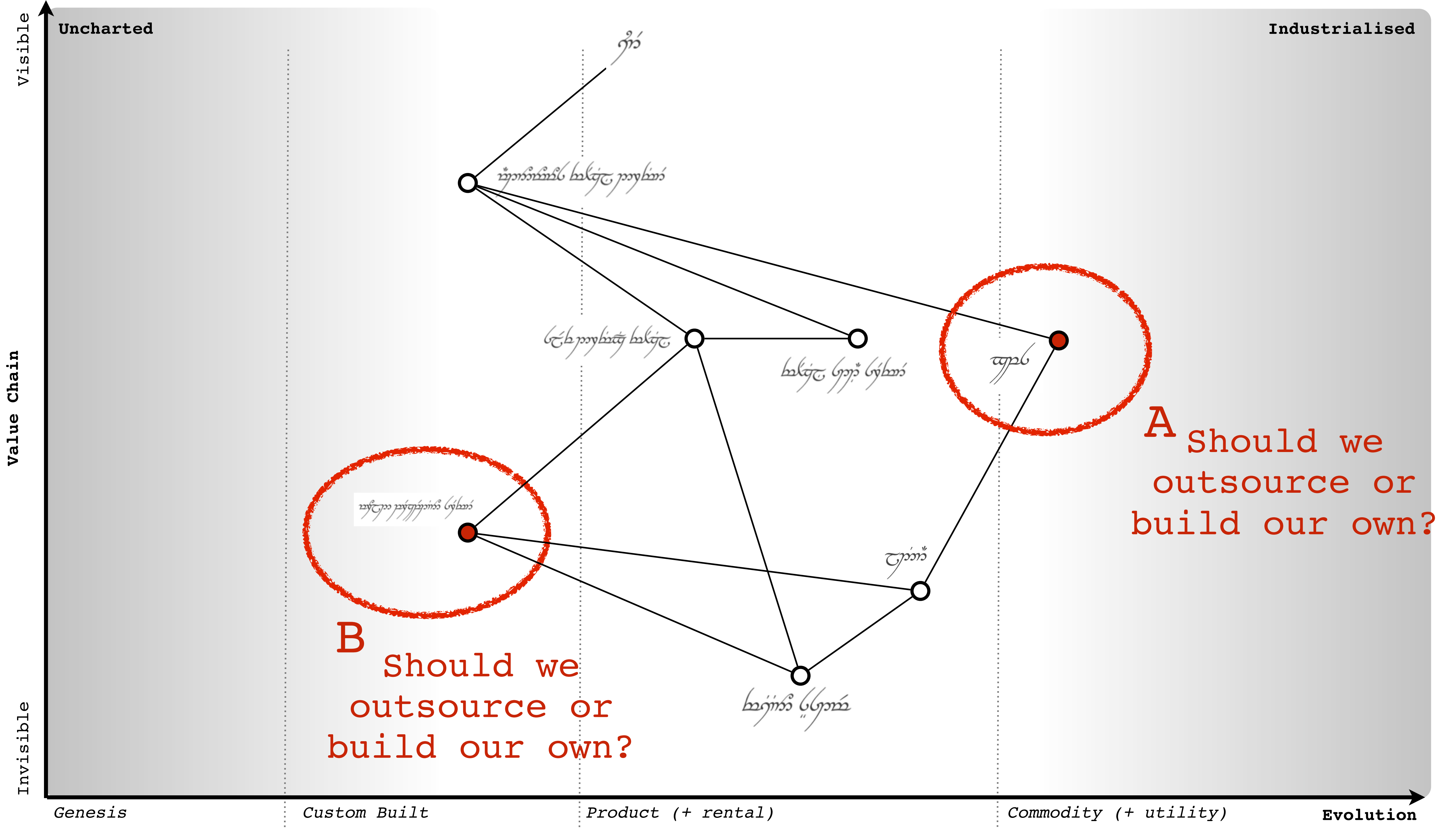


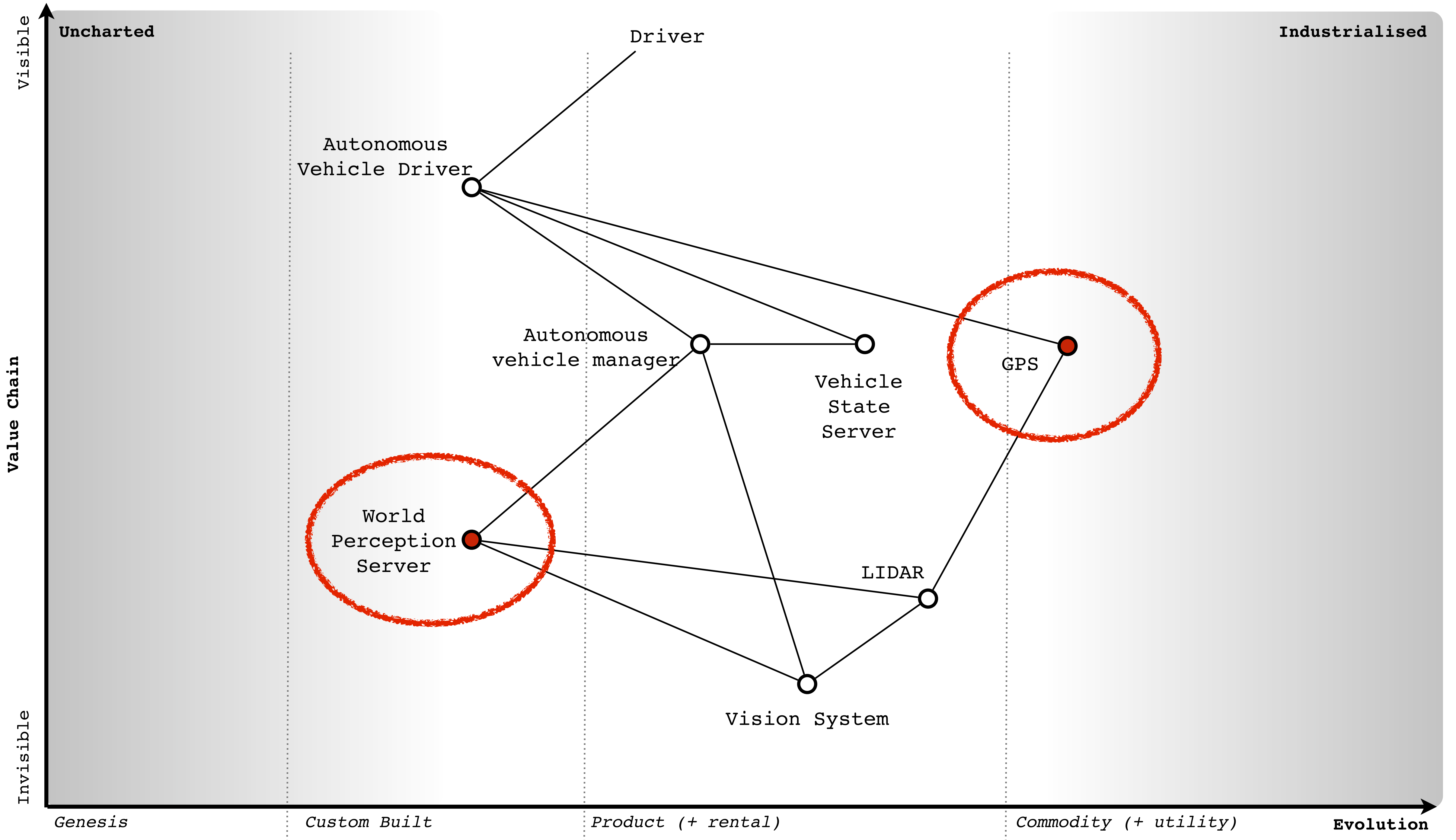
Network topology



A Should we
outsource or
build our own?

B Should we
outsource or
build our own?







Top quality prints and a **FREE** online photo service

- **Digital and film**

Easy upload for digital pictures and film rolls

- **Create online albums**

Unlimited secure space for your pictures

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password

Login

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Gifts Gallery

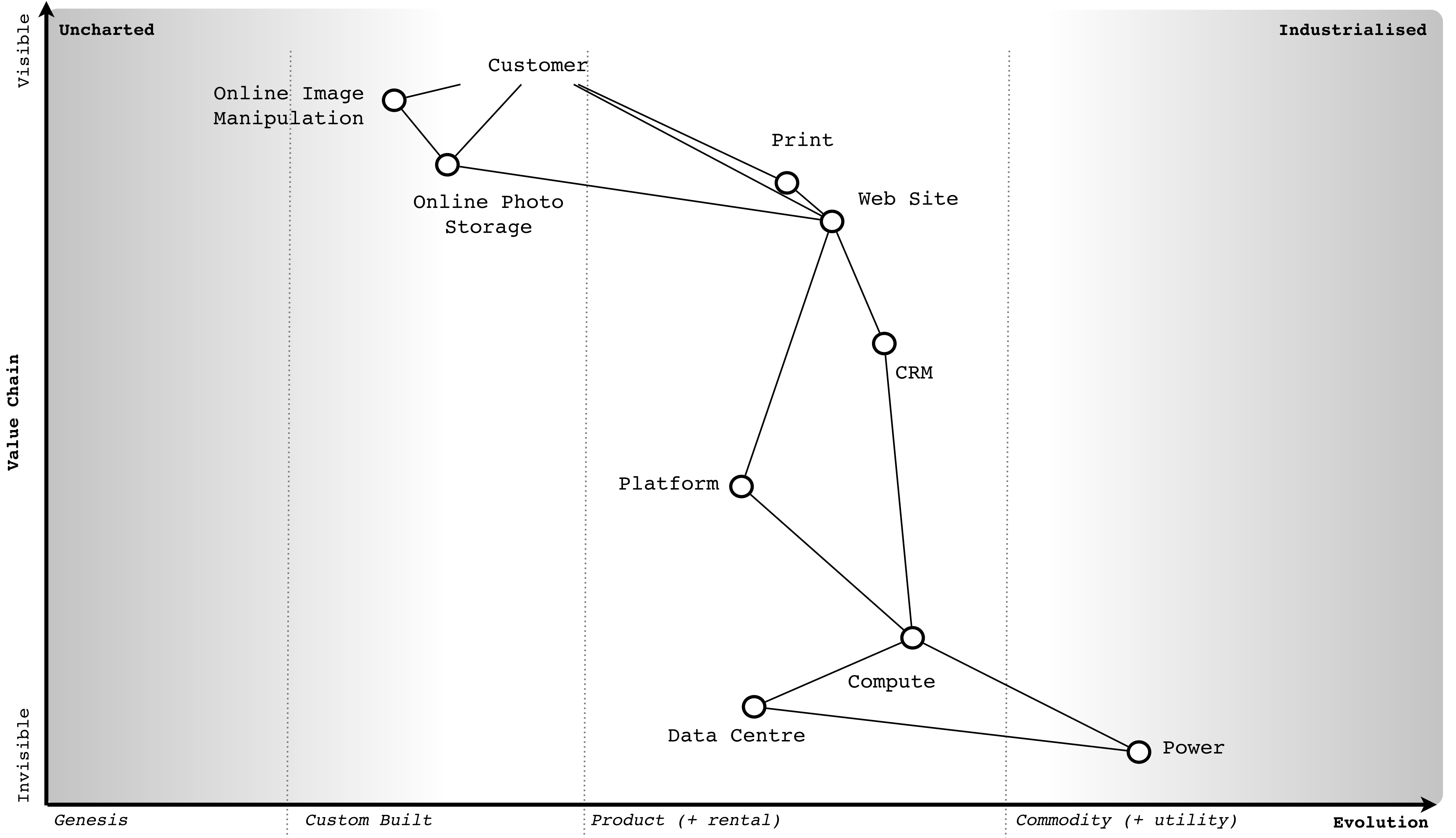
Turn your photos into great gifts!

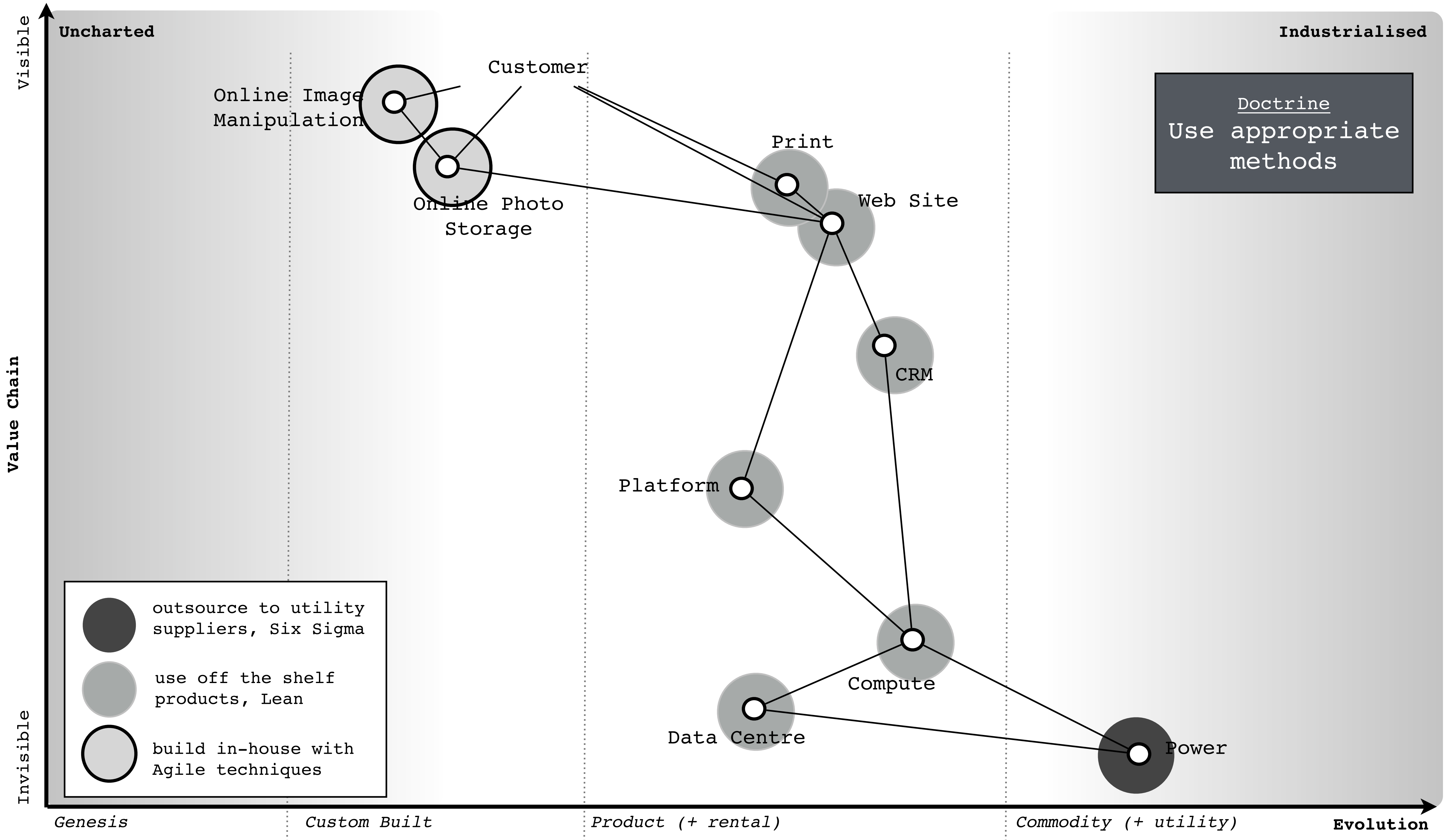


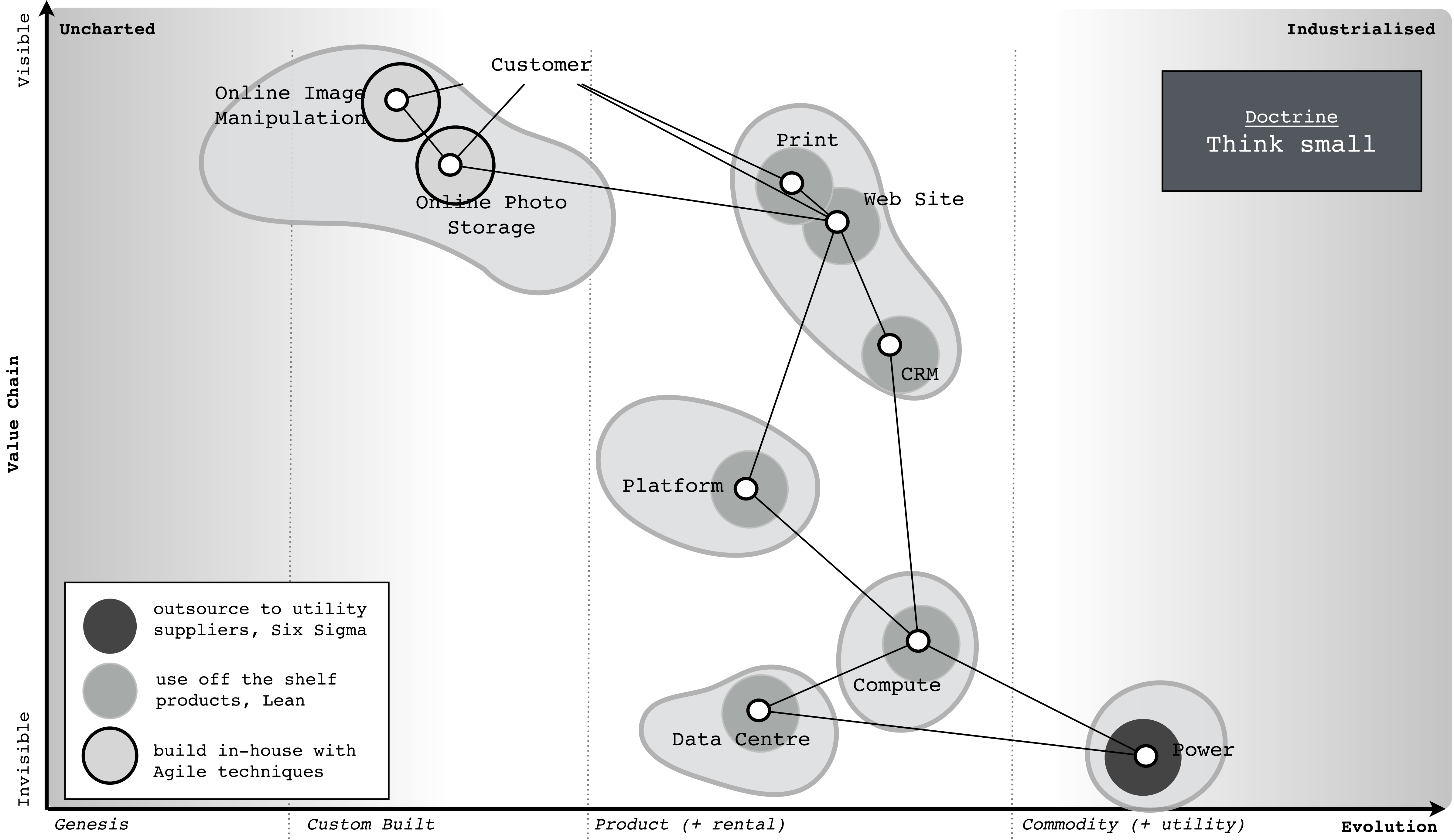
Promotions

Share pictures & when friend registers, you both get 3 free 6x4 prints.









FAST, INEXPENSIVE, SIMPLE, TINY **FIST**



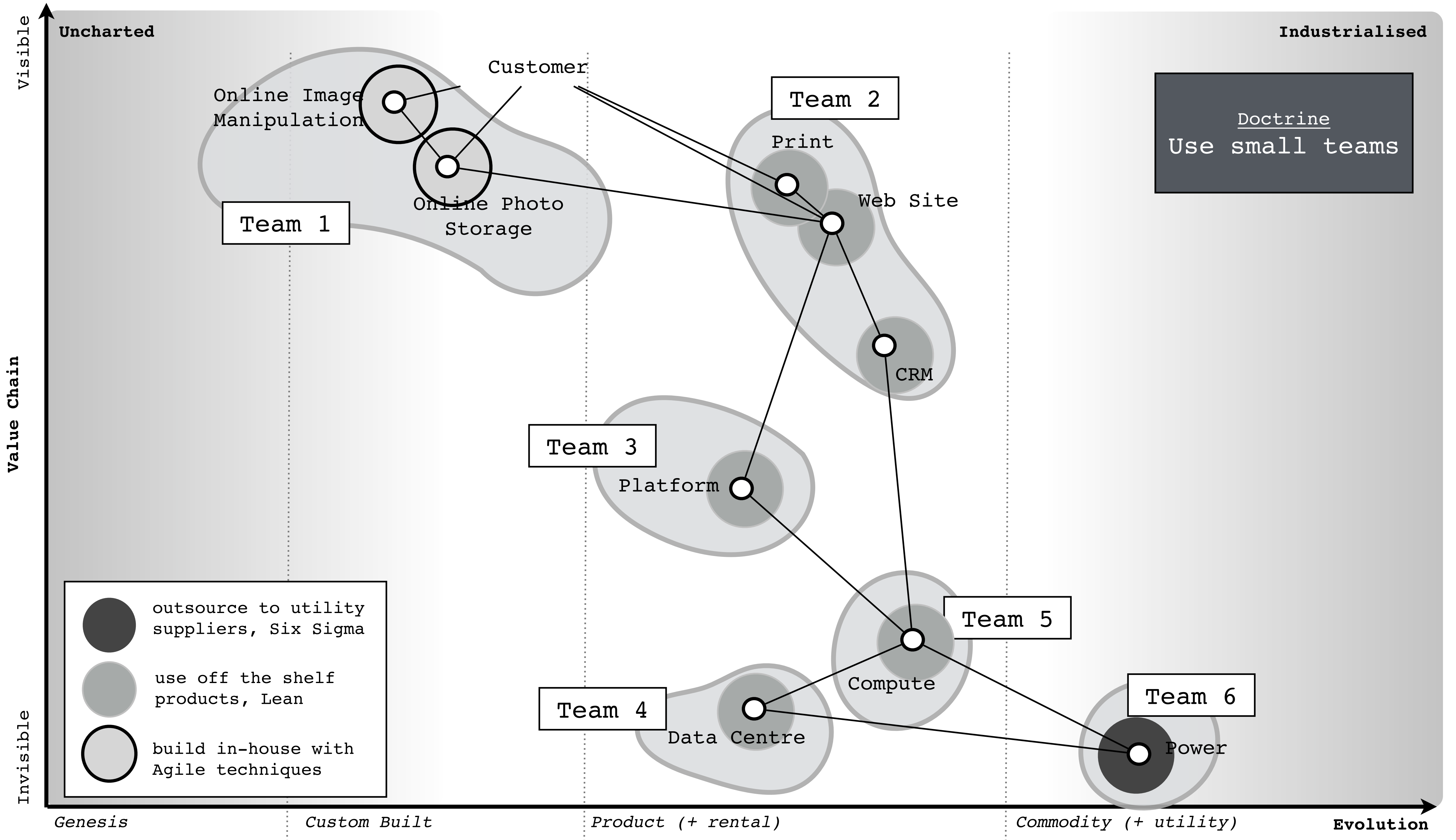
FIST at 5

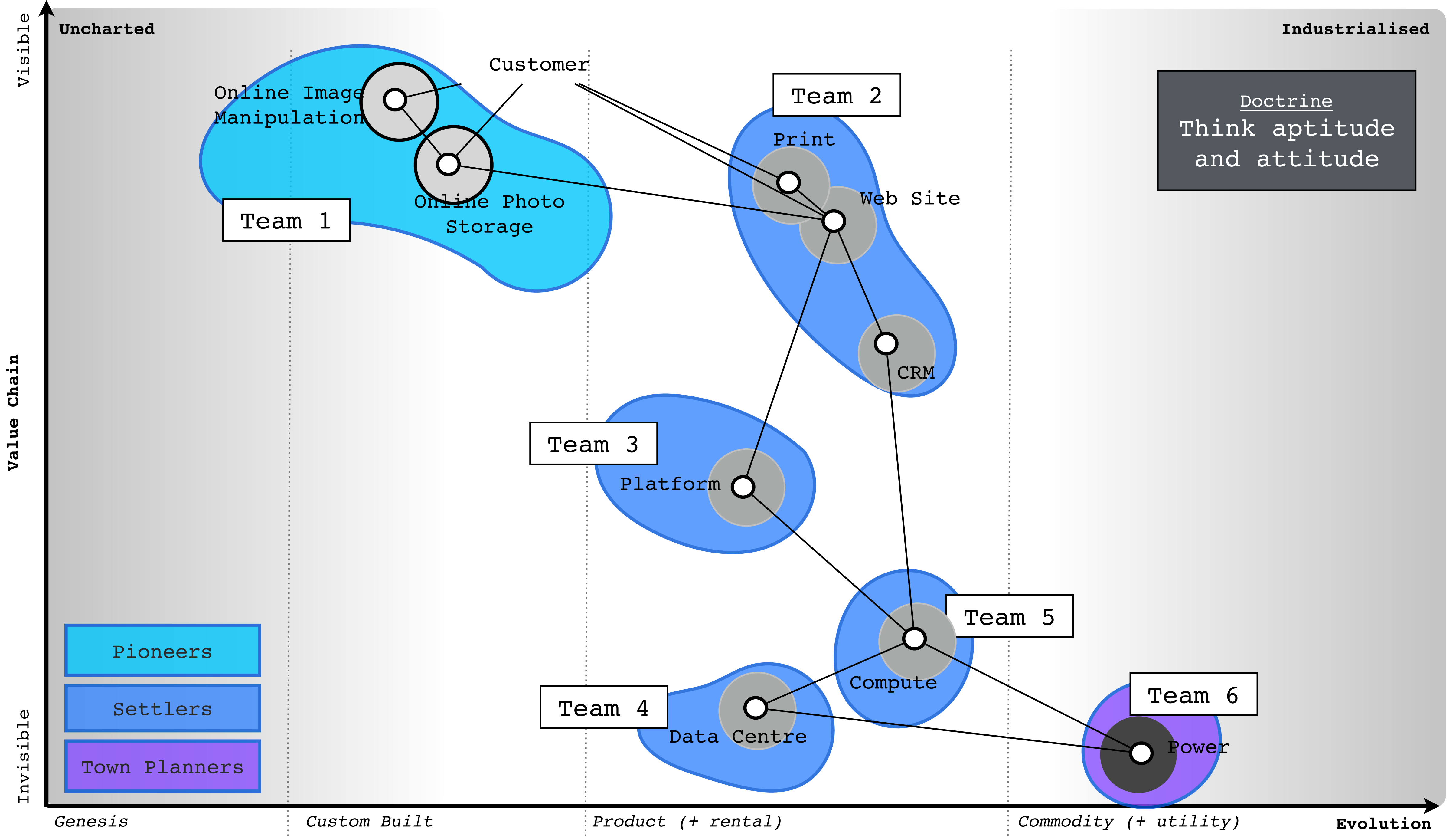
Looking Back, Looking Ahead

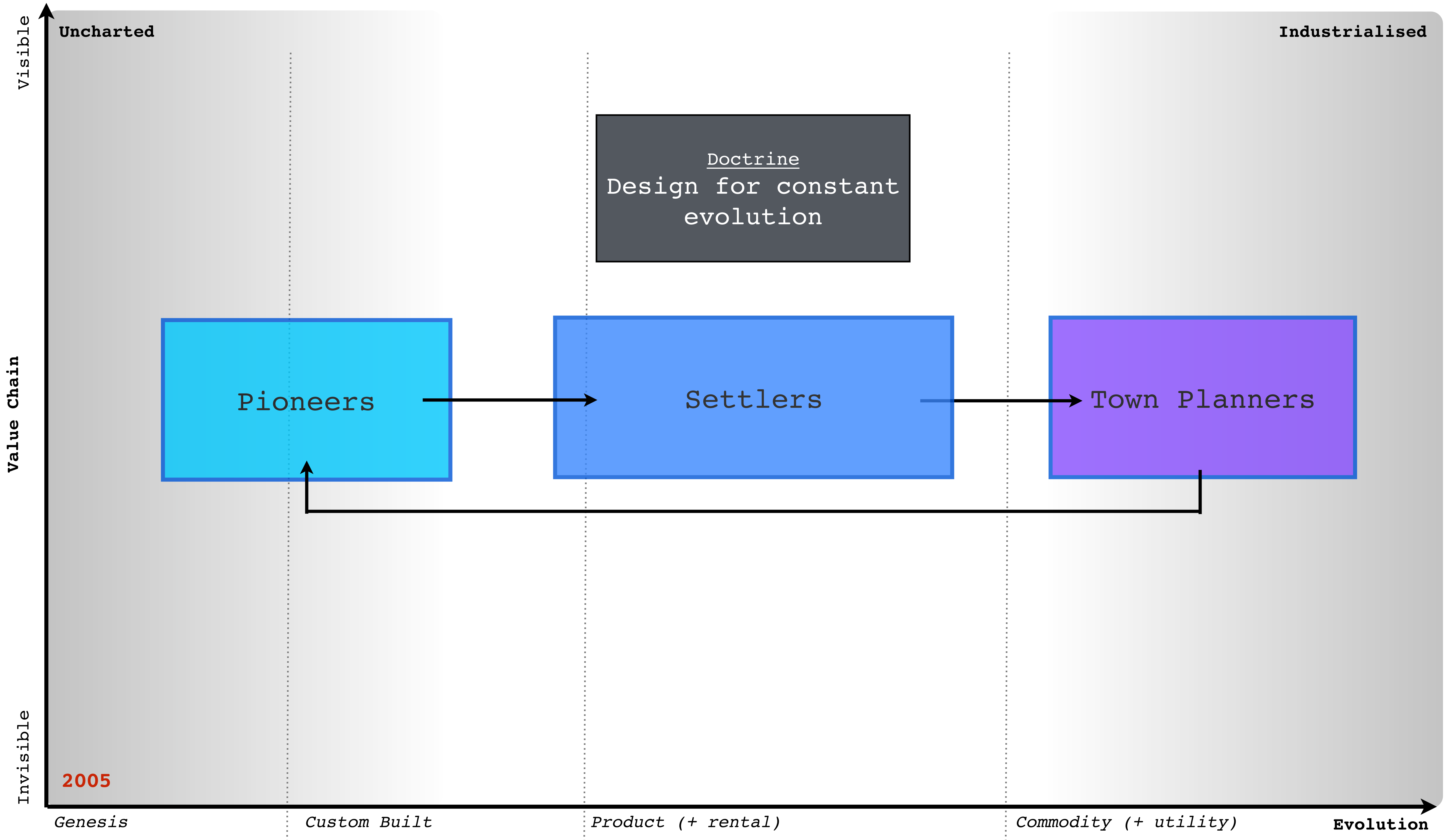
Lt. Col. Dan Ward, USAF

Harvest Hawk, idea to
combat operations in
18 months





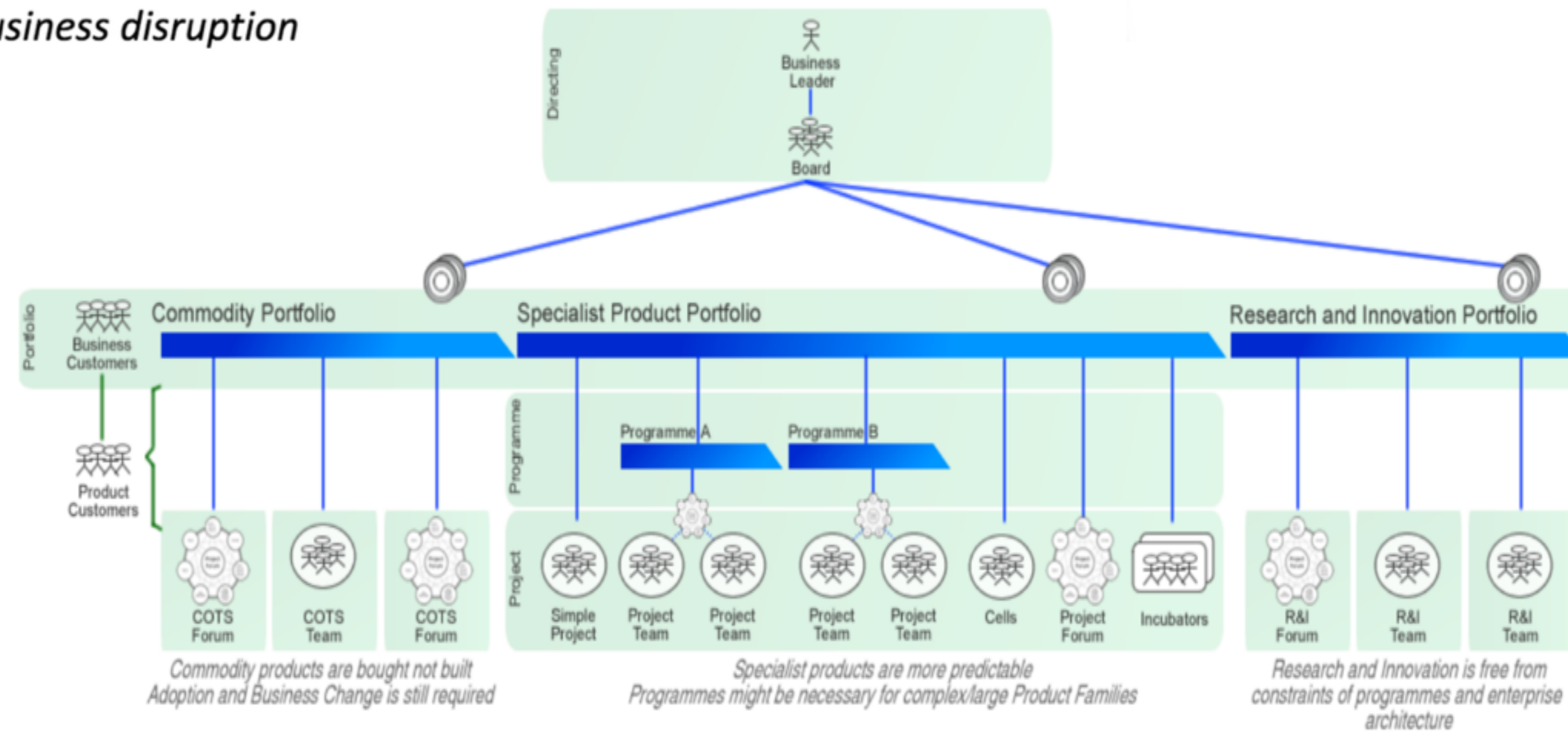






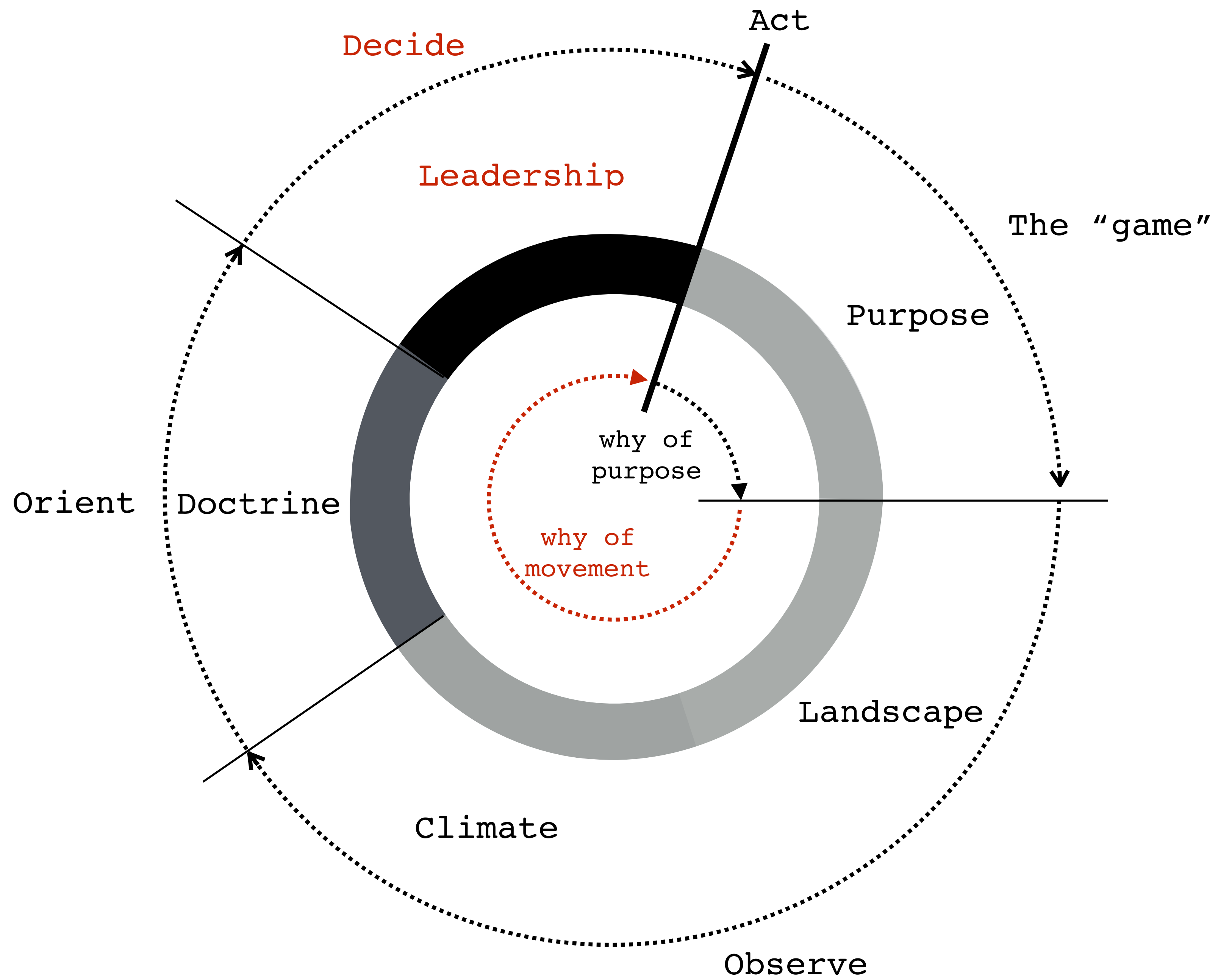
GCHQ: BOILING FROGS?

Technology organisations need to change radically to survive increasing technical and business disruption



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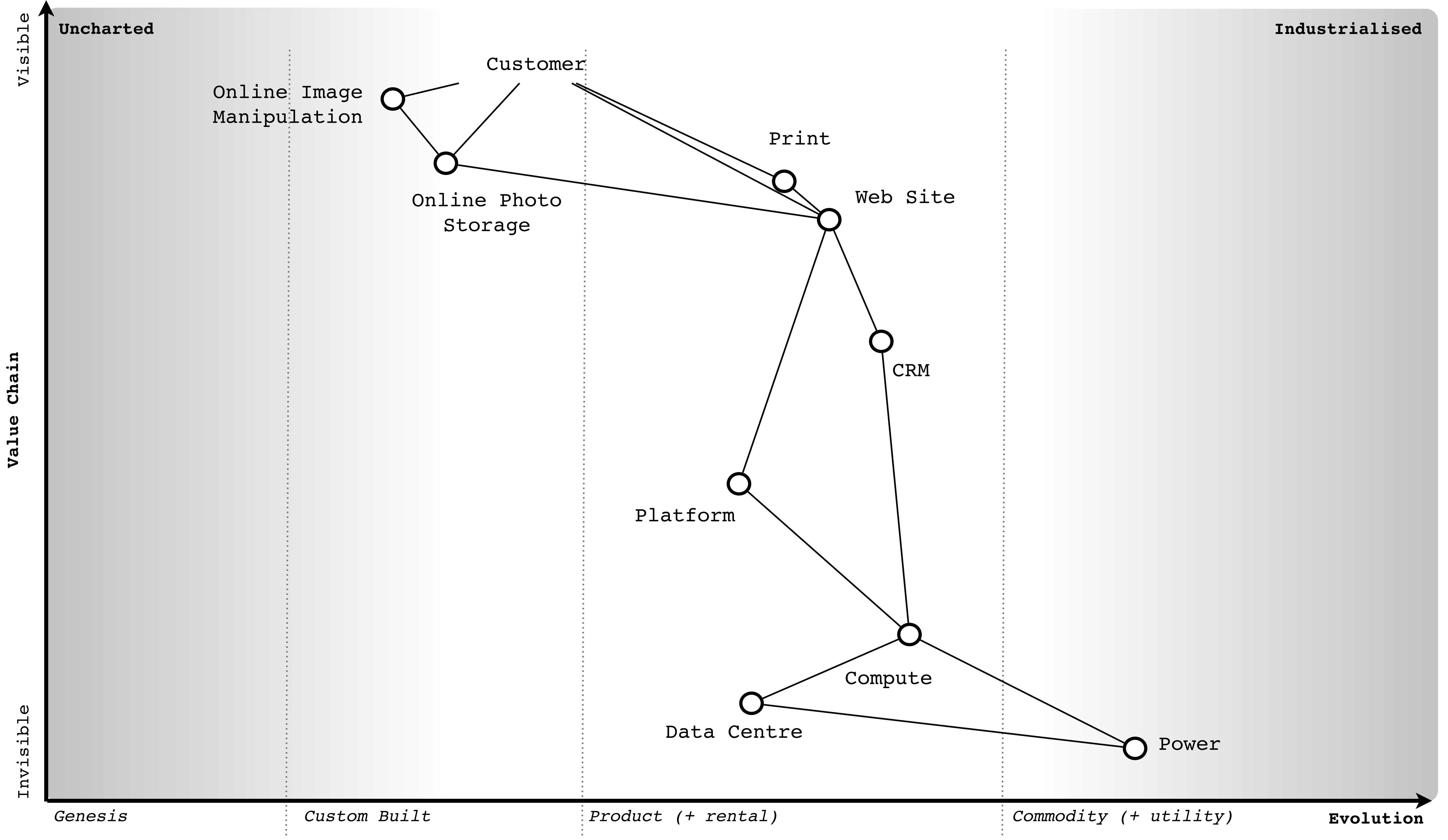


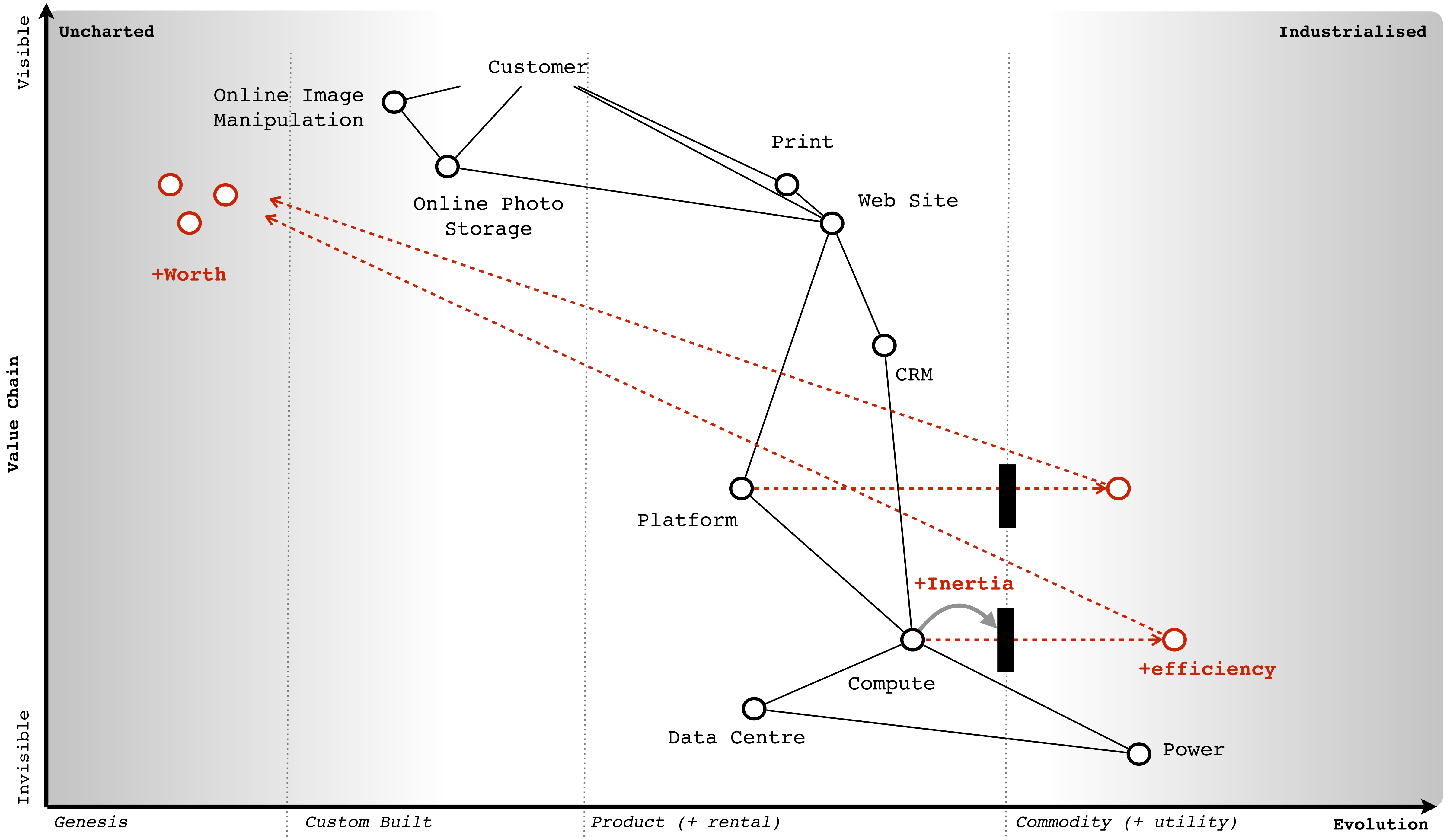
Strategy

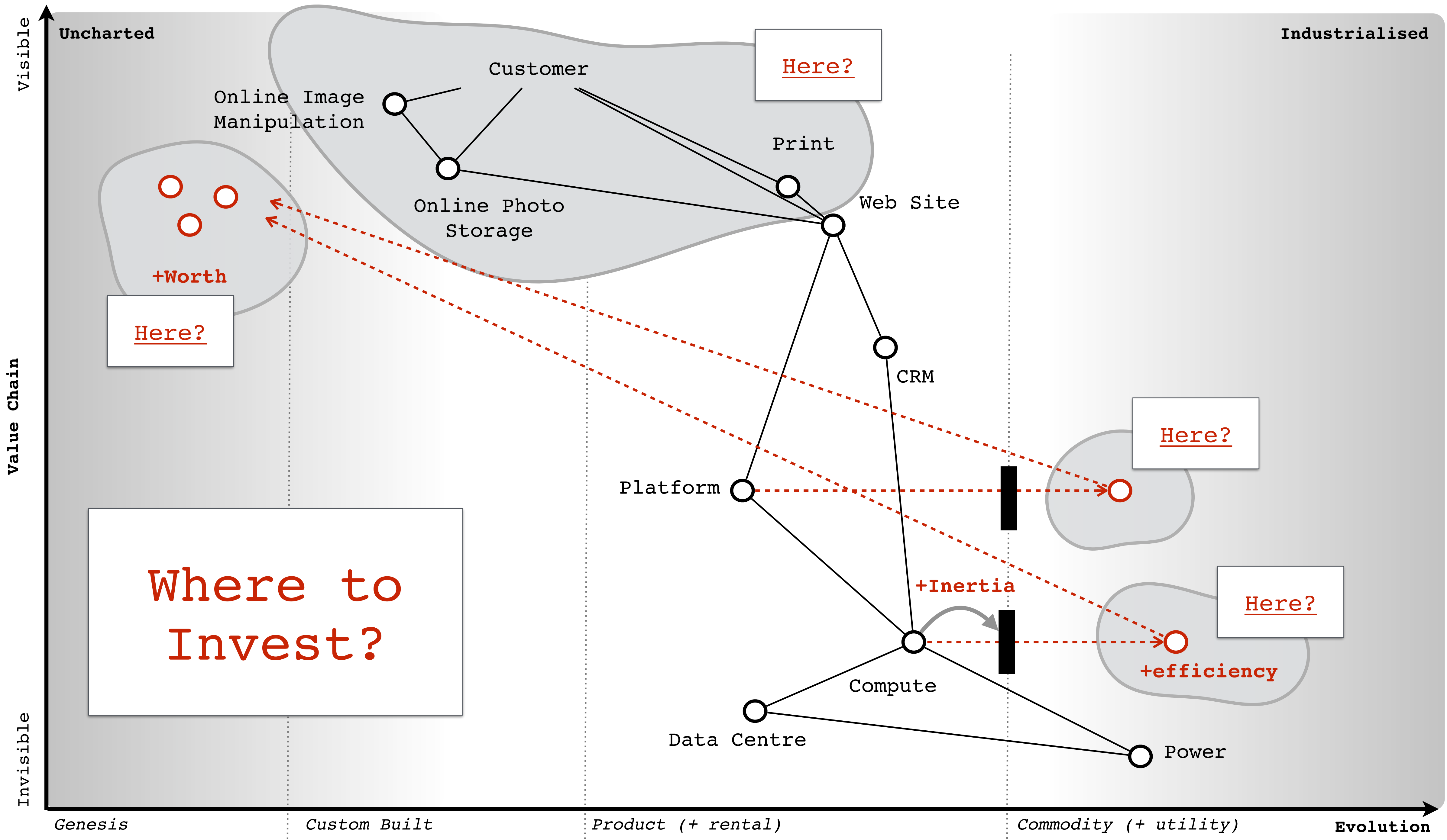
Context specific forms
of gameplay

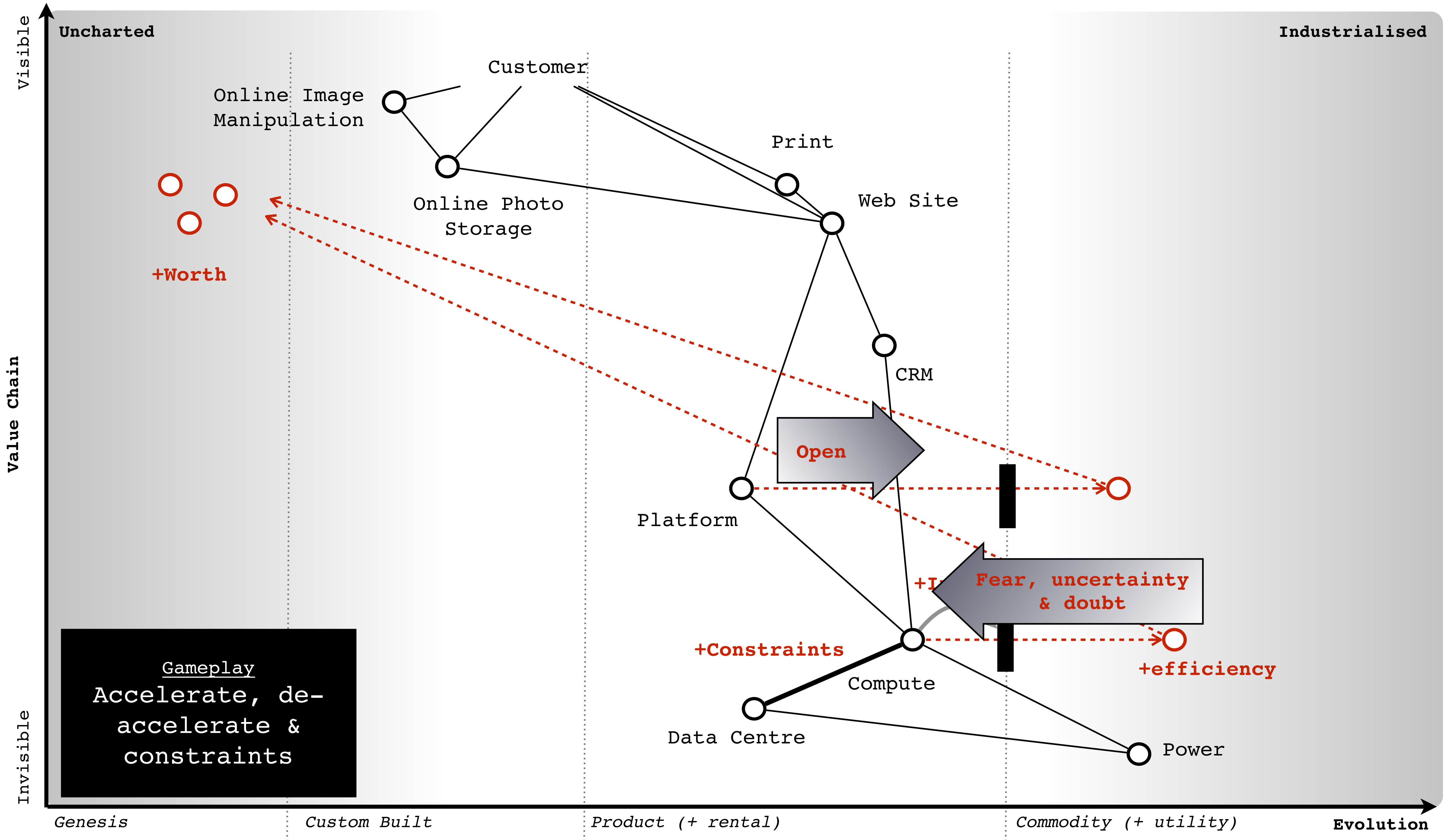
Flanking versus
Firing

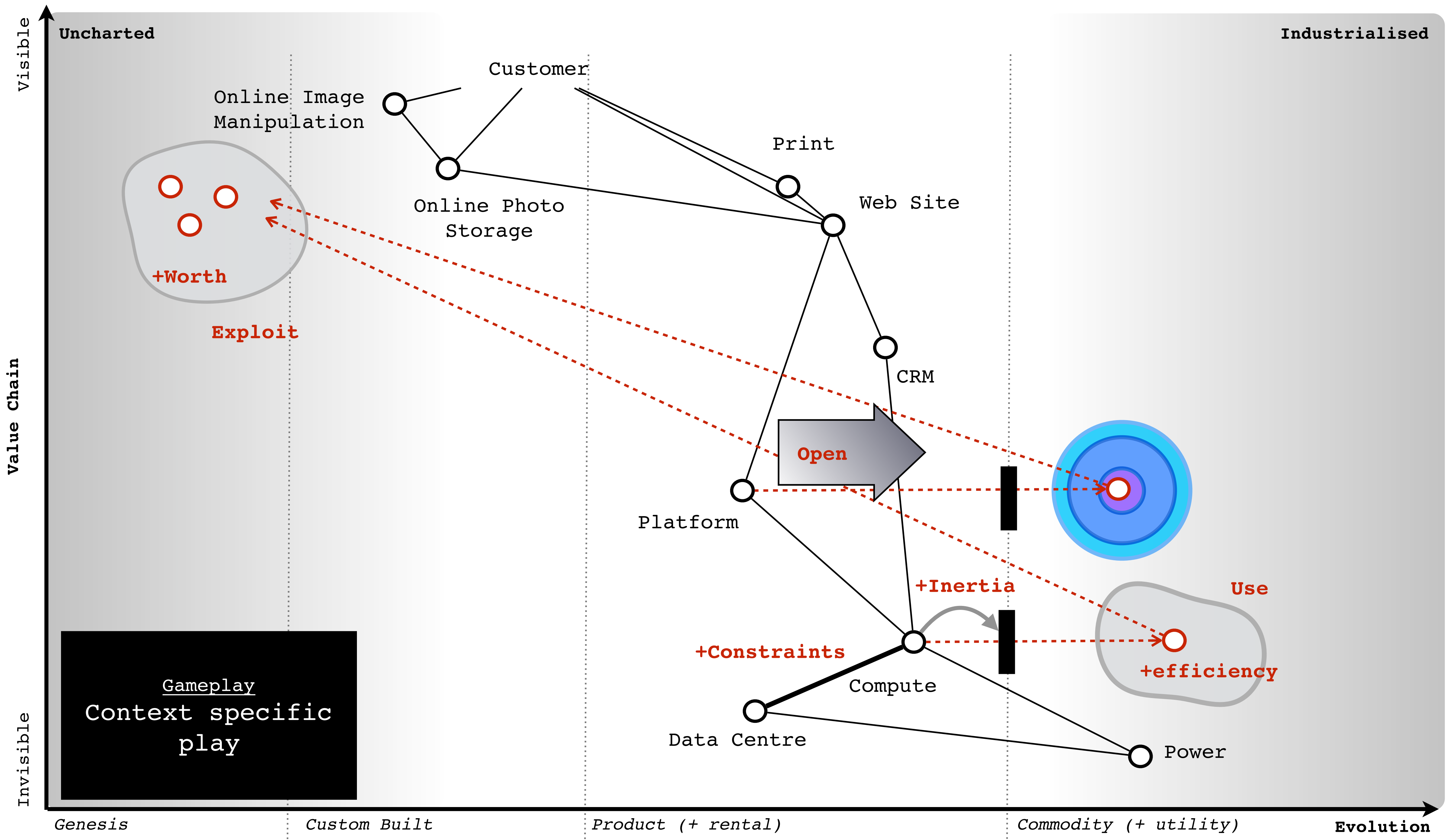


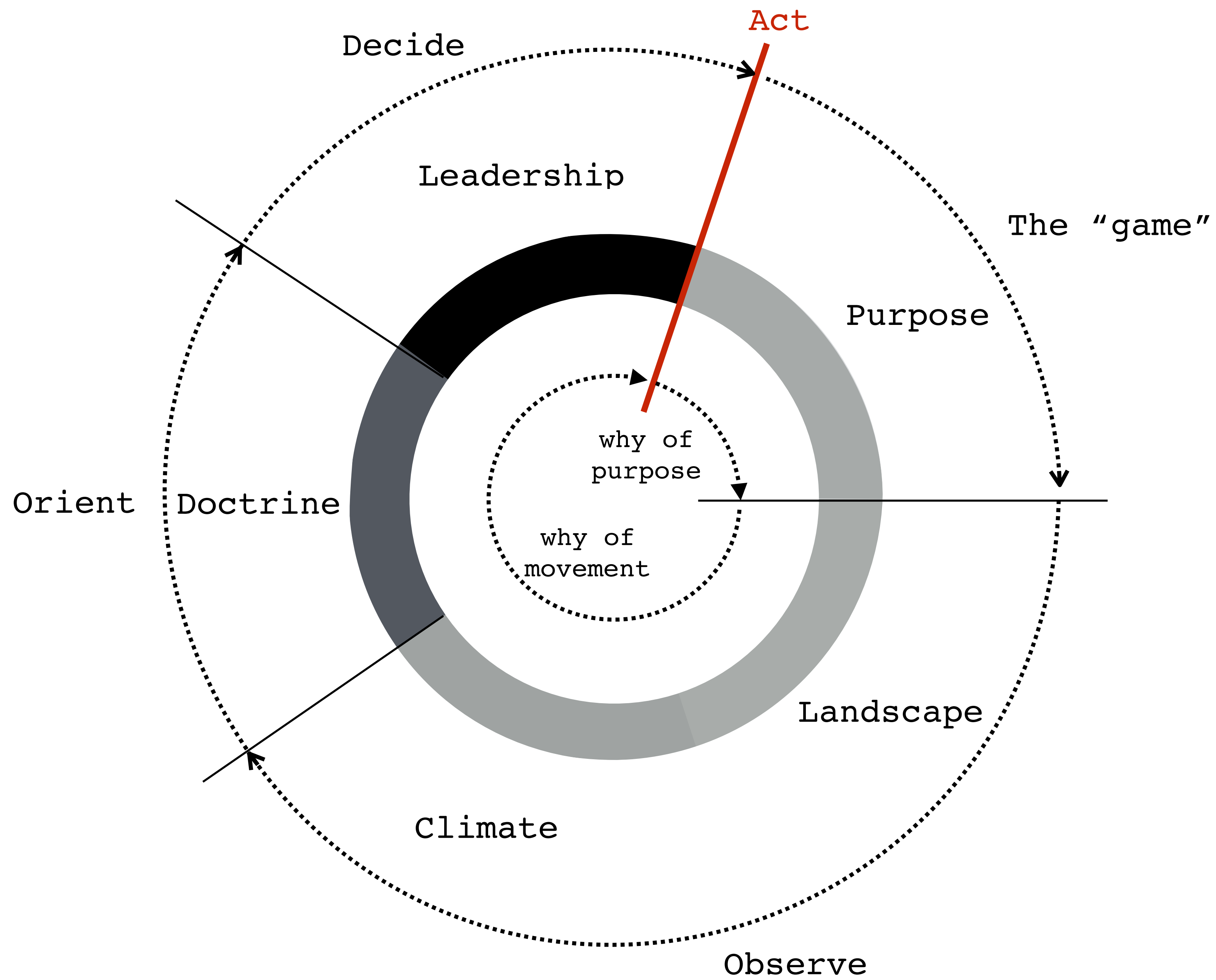






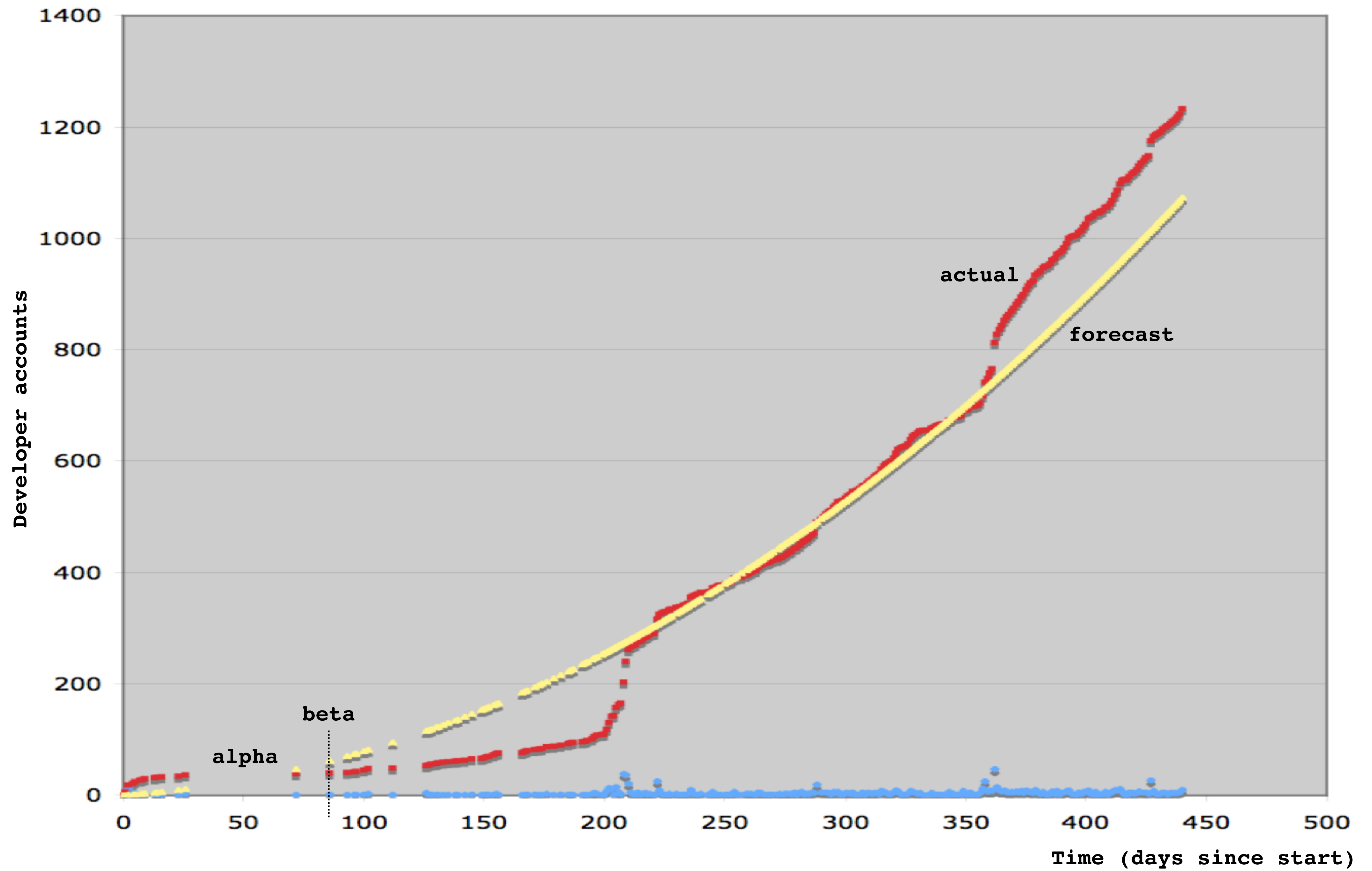









Anita Hart, April 2007, CC BY-NC-ND 2.0
<https://www.flickr.com/photos/anitahart/472099476>

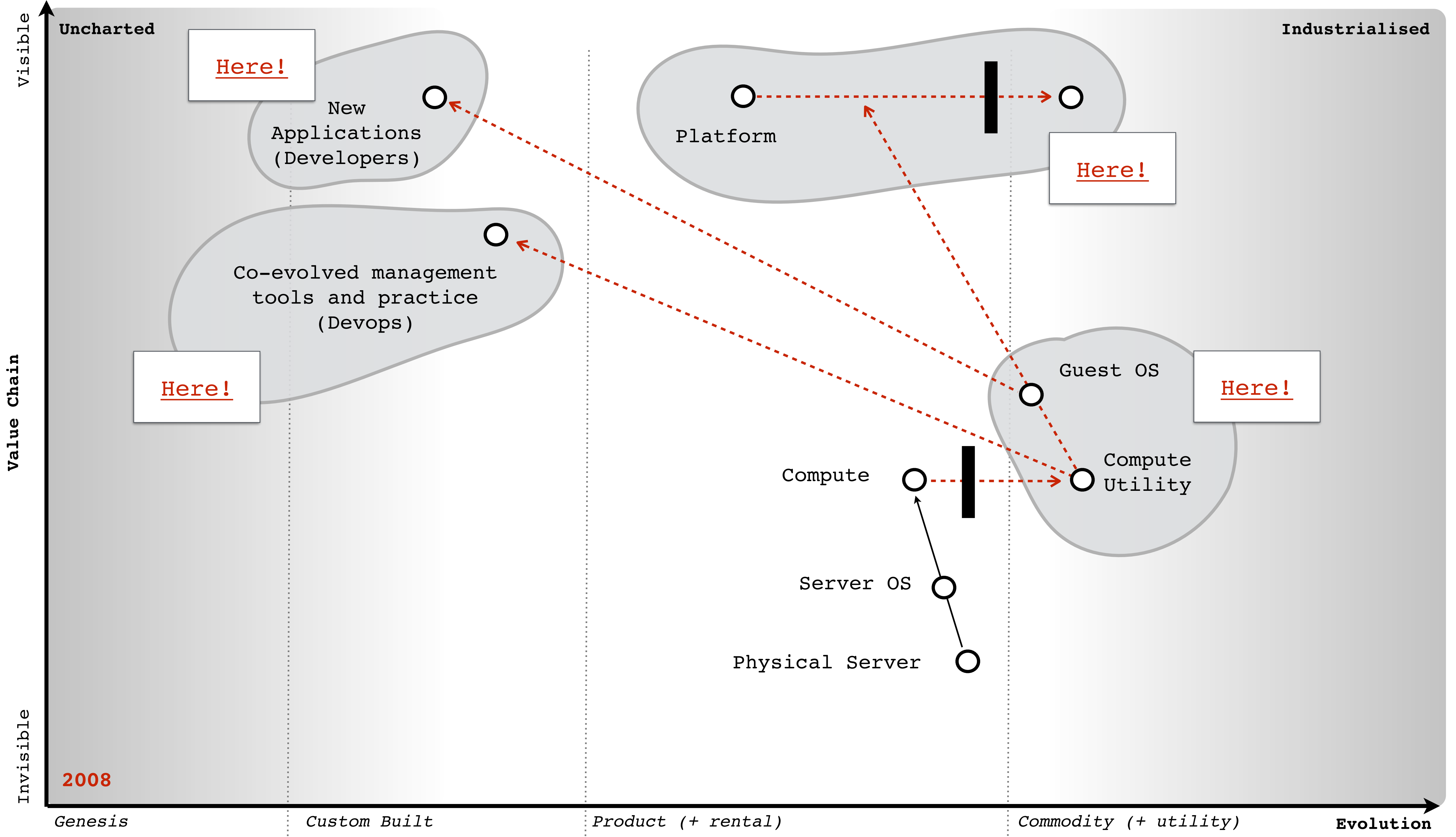


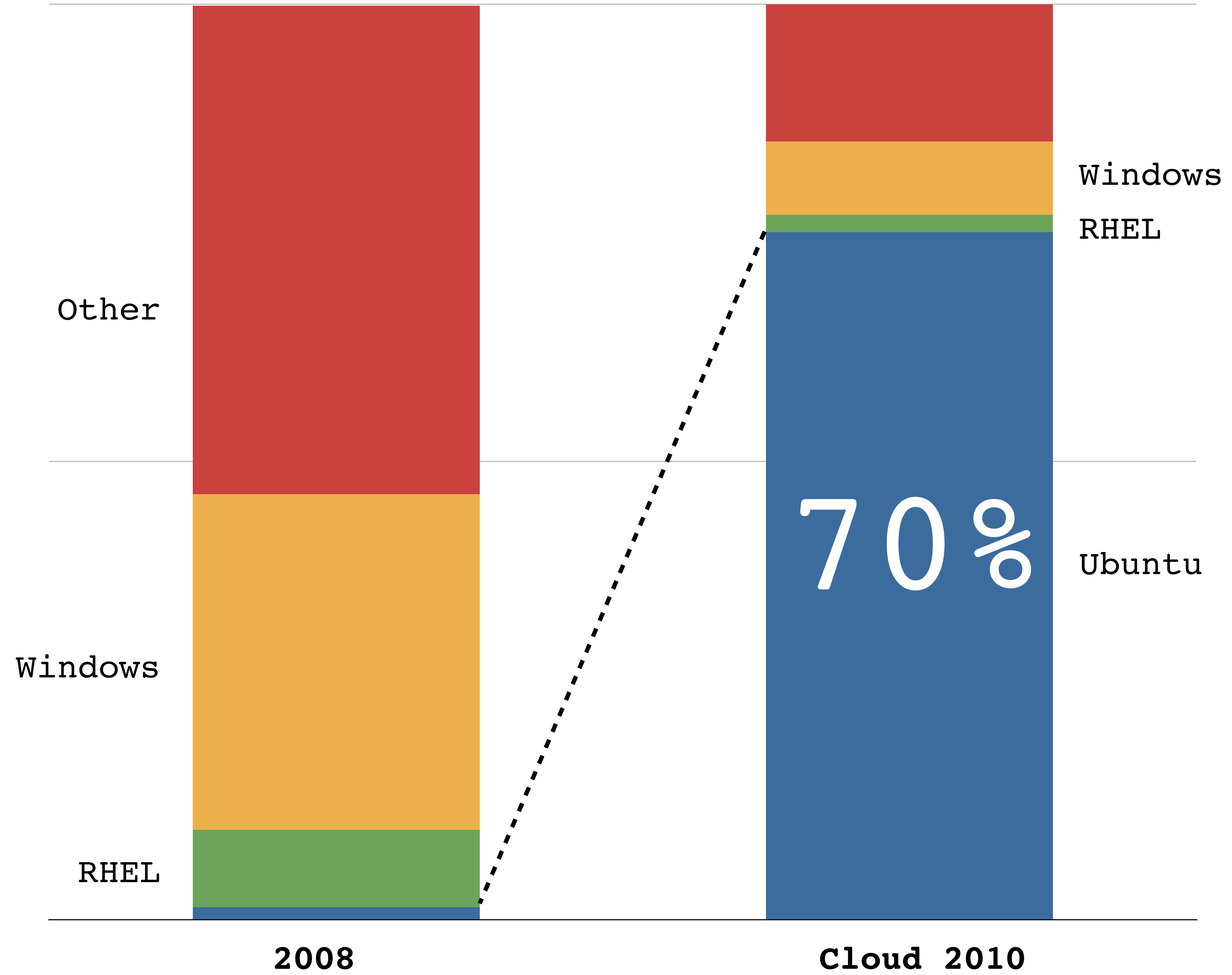
A meme featuring three ginger cats dressed as the Three Kings. The cat on the left wears a black crown and a red robe. The middle cat wears a red crown and a red robe. The cat on the right wears a red hood and a red robe. Each cat has a gold cross hanging from a chain around its neck. The cat on the right is holding a small object in its paws. Two speech bubbles are overlaid on the image: one on the left containing the text "It's not the future" and one on the right containing the text "Not core".

It's not
the future

Not core







pba

the network for the post-bureaucratic age

“Better for Less”

How to make Government IT deliver savings.

Liam Maxwell

with contributions from

Jerry Fishenden

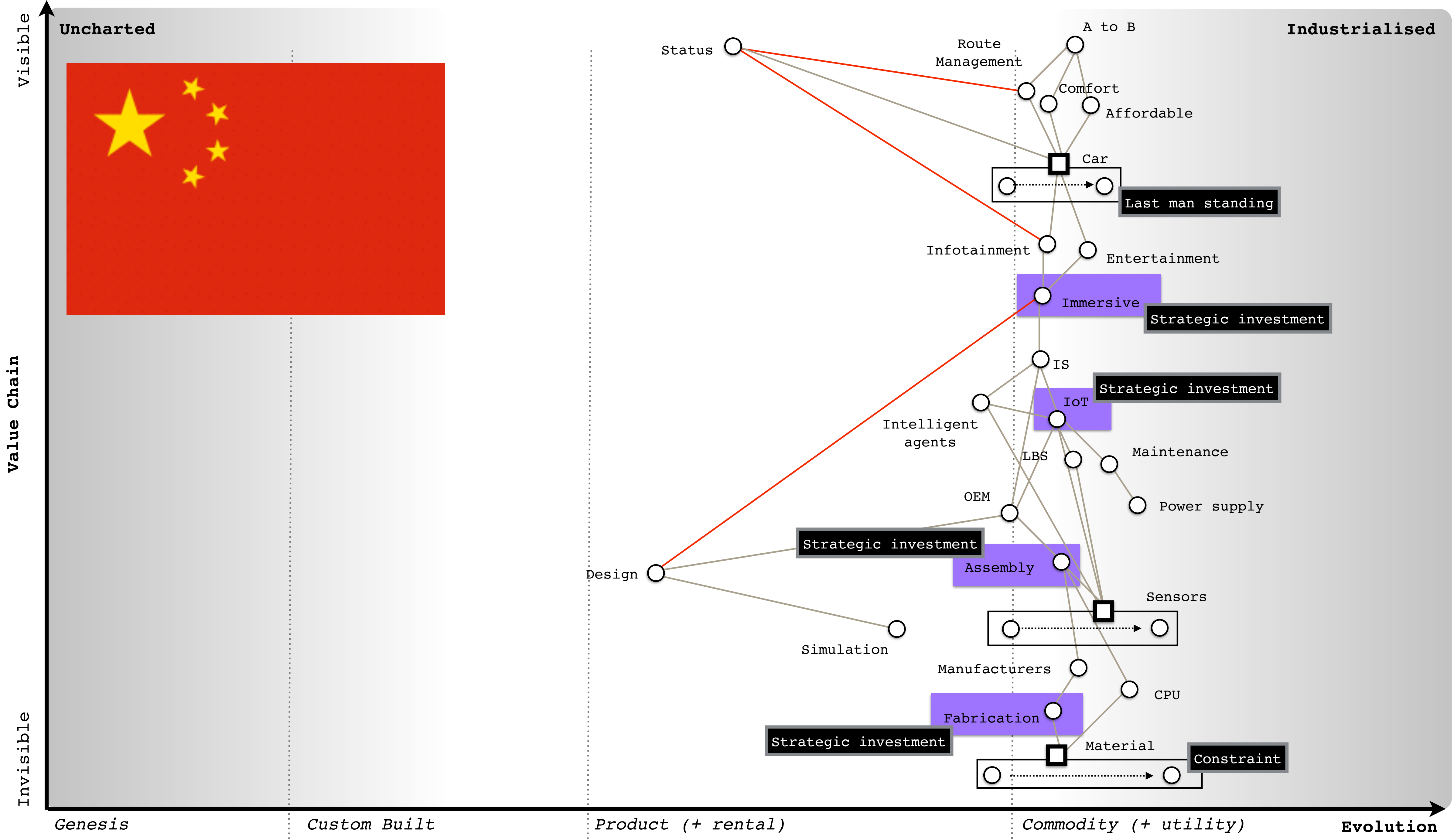
William Heath


Jonathan Sowler

Peter Rowlin

Mark Thompson

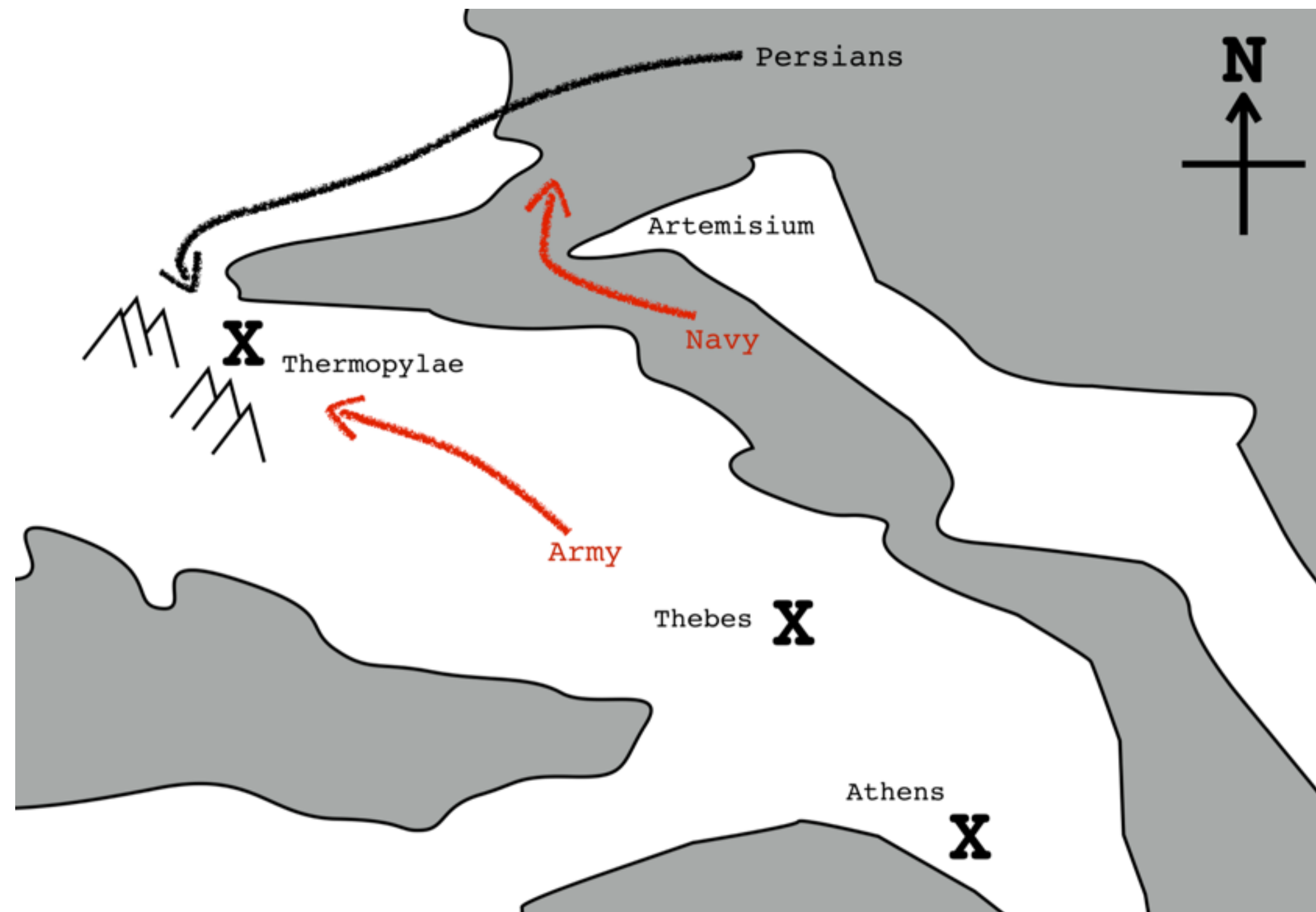
Simon Wardley.





This is
complex!

What would you use to communicate and determine strategy in battle?

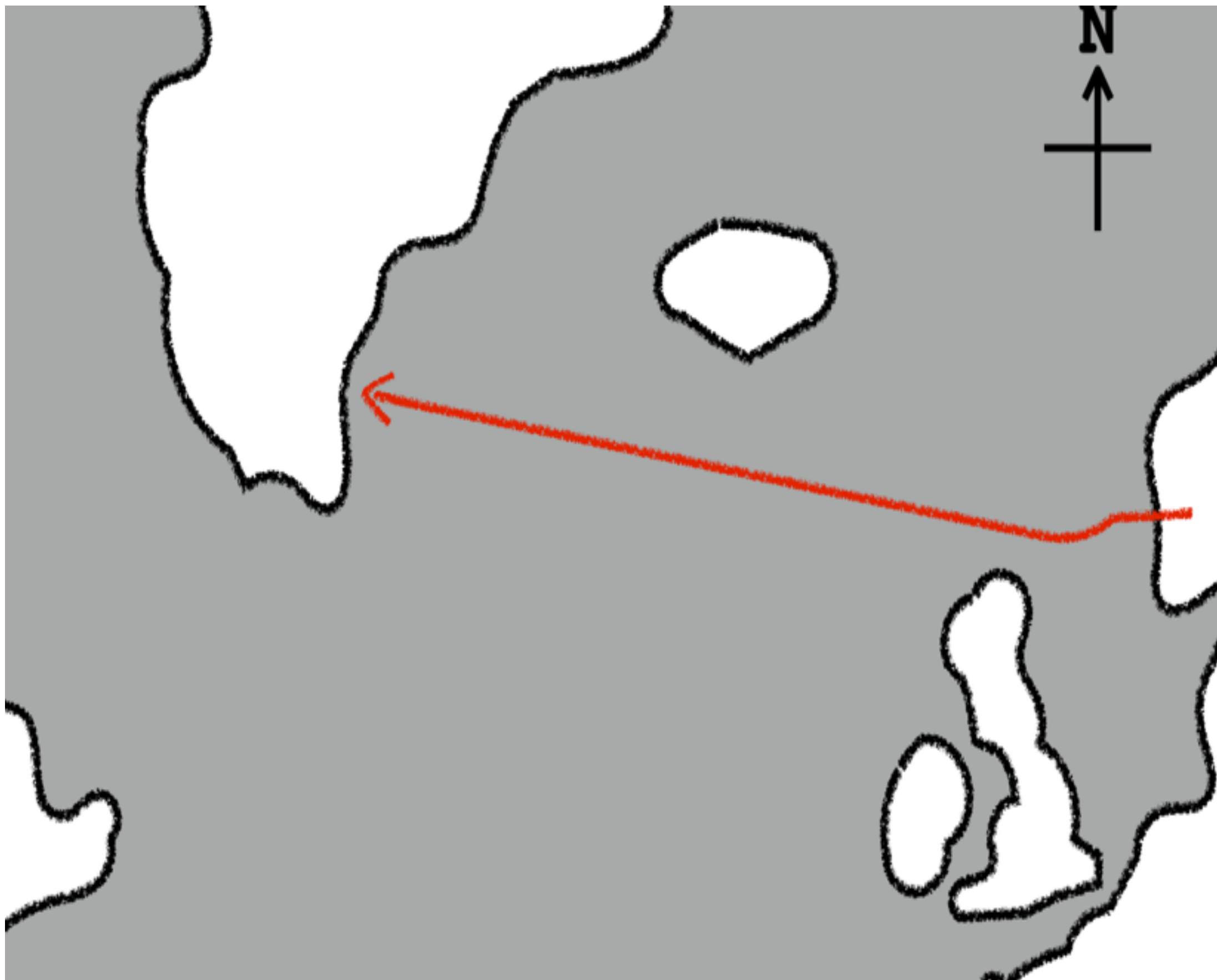


position and movement

Strengths	Weaknesses
<p>A well trained Spartan army</p> <p>A high level of motivation not to become a Persian slave</p>	<p>The Errors might stop the Spartans turning up</p> <p>A lot of Persians ARE turning up</p>
Opportunities	Threats
<p>Get rid of the Persians</p> <p>Get rid of the Spartans</p>	<p>Persians get rid of us</p> <p>The Oracle says a really dodgy film might be produced over 2,000 years later</p>

magic framework

What would you use to navigate?



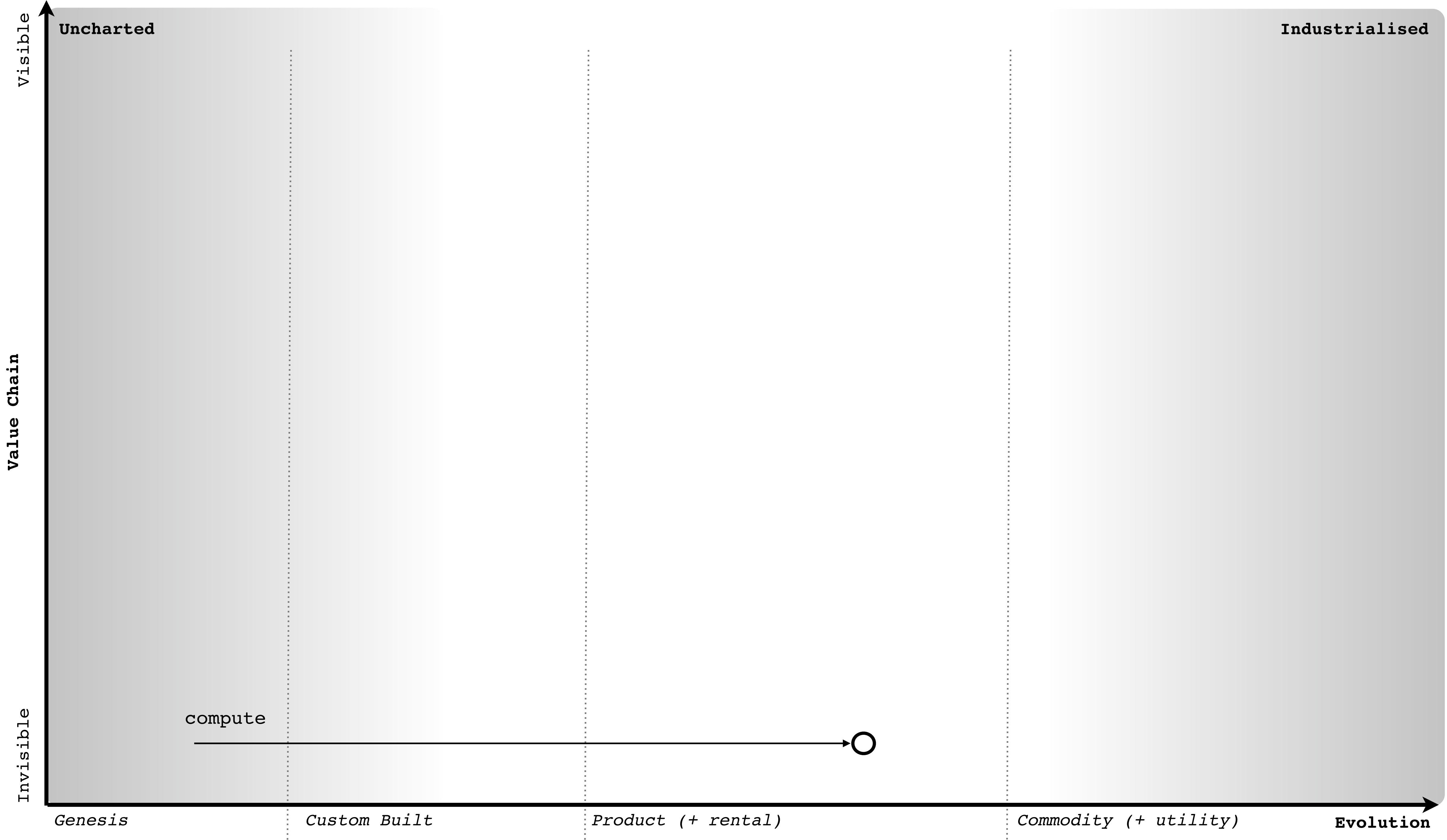
visual map

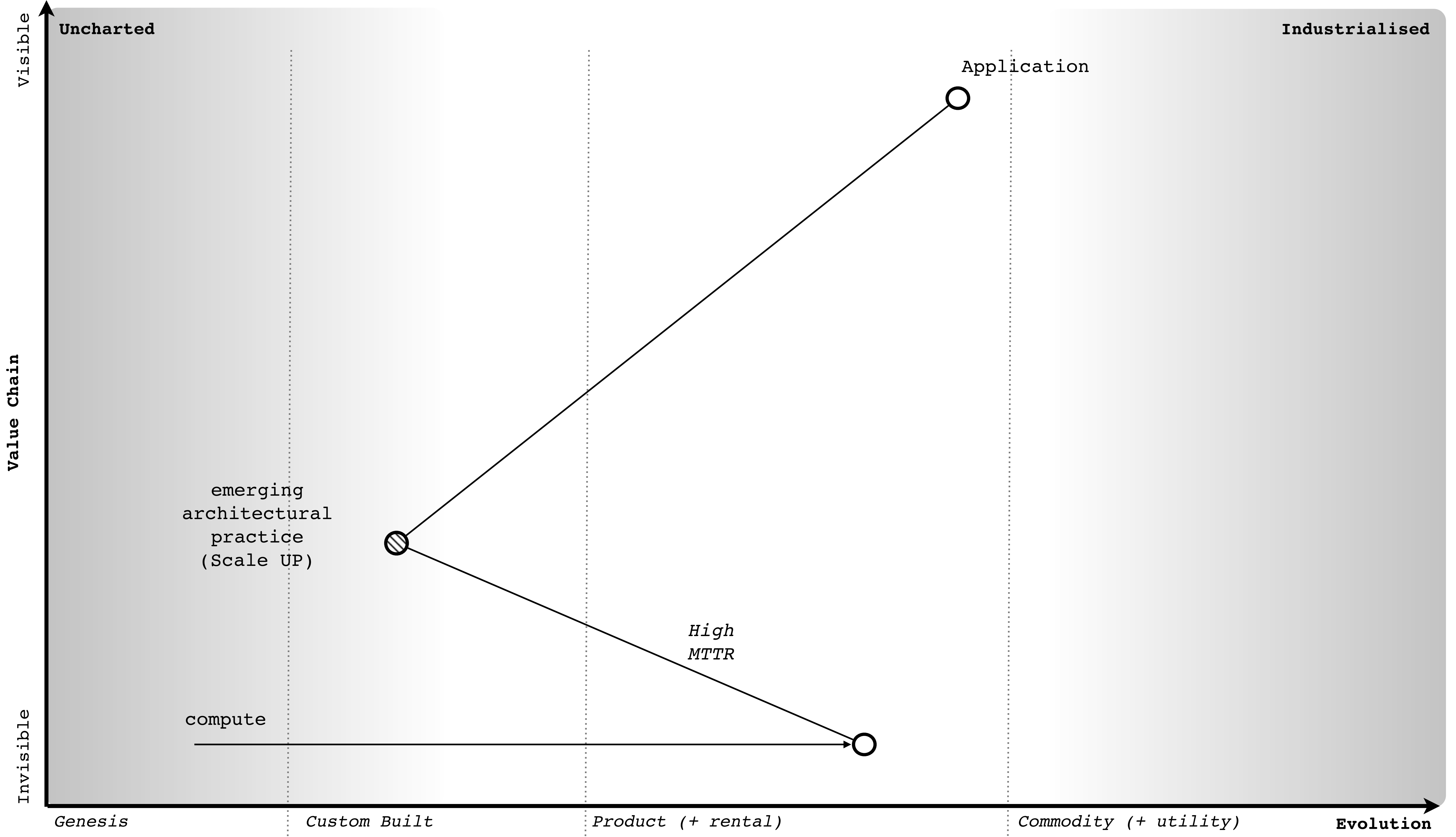
west towards Hvarf, and
you will have sailed
north of Hjalte land, so
that you just glimpse it
in clear weather, but
south of the islands, so
that the sea is right in
between the distant
mountains and thus also
south of Iceland.

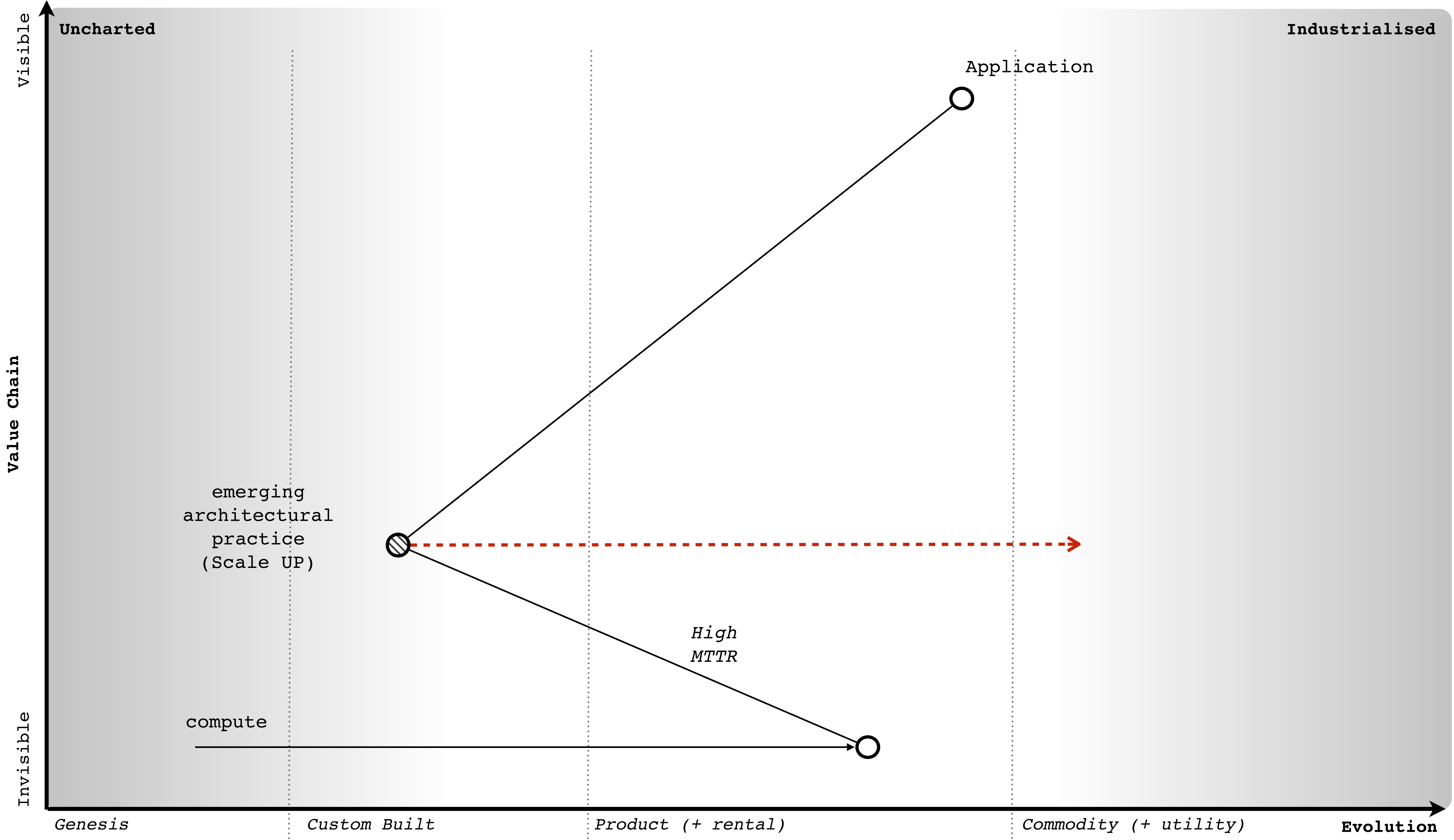
verbal story

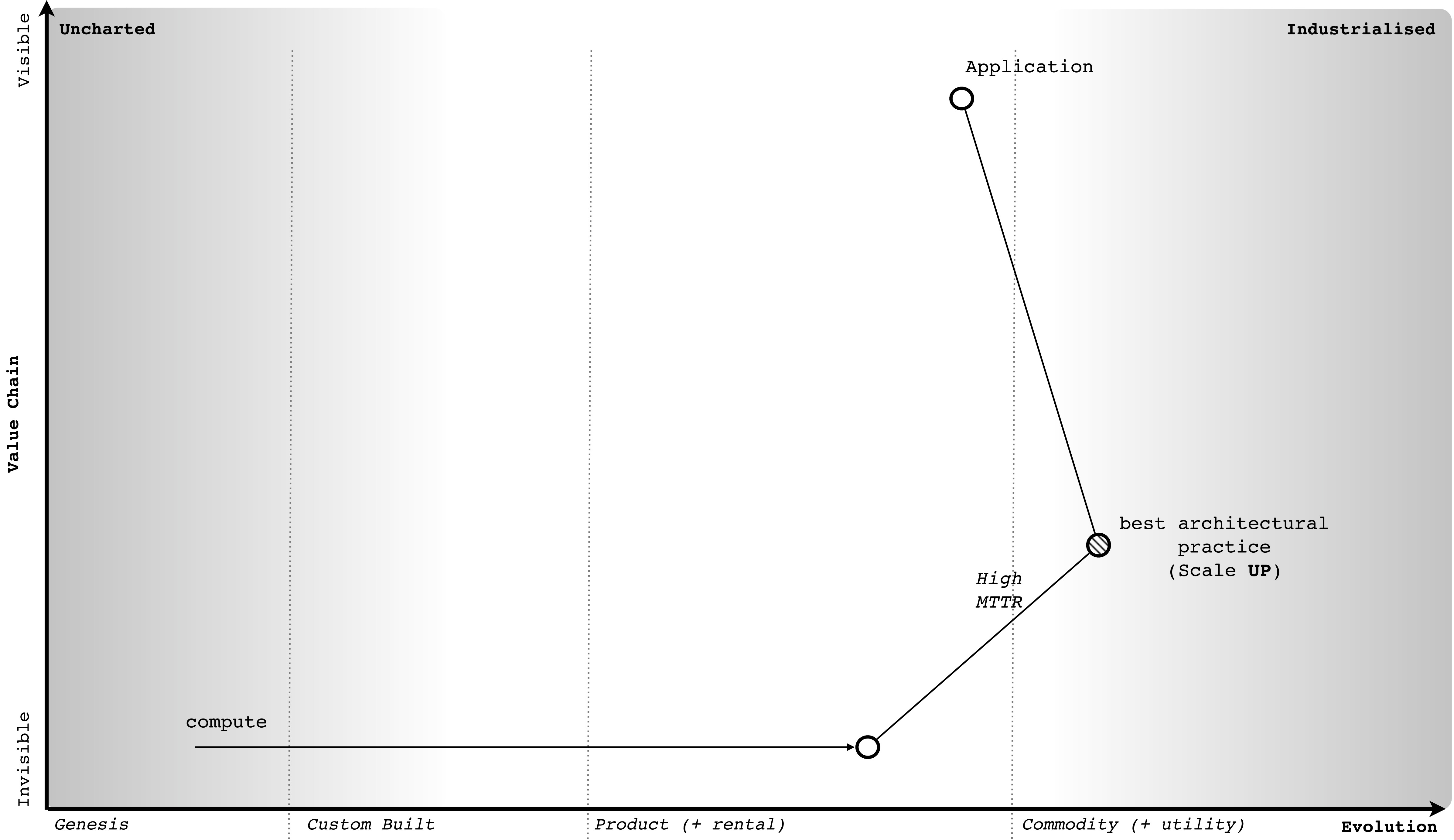


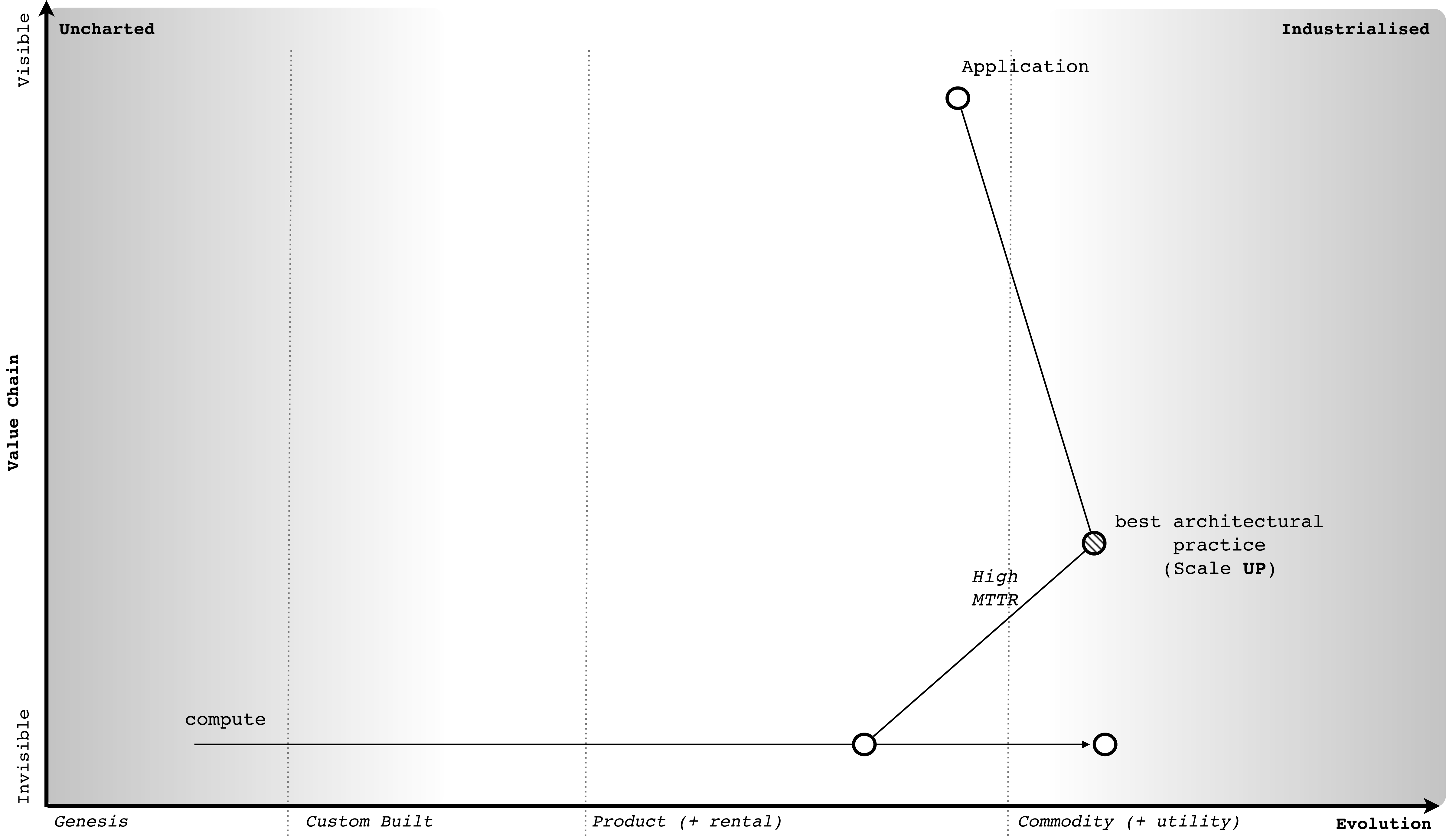
Serverless!













Make my
legacy
"cloudy"

Amazon Cloud Outage Aftermath: Questions, Concerns Linger

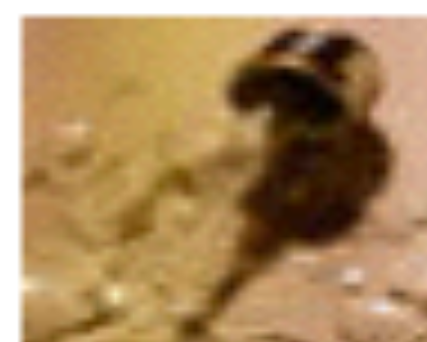
By [Andrew R Hickey](#), CRN

May 11, 2011 1:33 PM ET

[Amazon's cloud outage](#) shook the cloud computing industry to its core last month, and at Interop Las Vegas 2011 a panel of cloud experts examined the fallout and the lasting impact of Amazon (NSDQ:[AMZN](#))'s cloud outage.

Amazon's cloud services went down for several hours, and in some cases days, on April 21 after an issue with its Elastic Block Store (EBS) service got stuck in a "re-mirroring storm" in its North Virginia data center. The hiccup knocked several Amazon cloud users offline,

RECENT ARTICLES




Amazon's Not A Outages In The

Amazon's cloud outage
last. Here we look at
within the last year.



Amazon Cloud Learned

Three ginger cats are dressed in red nuns' habits. The cat on the left is wearing a black veil. The cat in the middle is wearing a red veil and a large red cross necklace. The cat on the right is wearing a red veil and a large red cross necklace, and is holding a small book. A white speech bubble with a black outline is positioned on the left side of the image, containing the text "The end of cloud is nigh ...".

The end of
cloud is
nigh ...

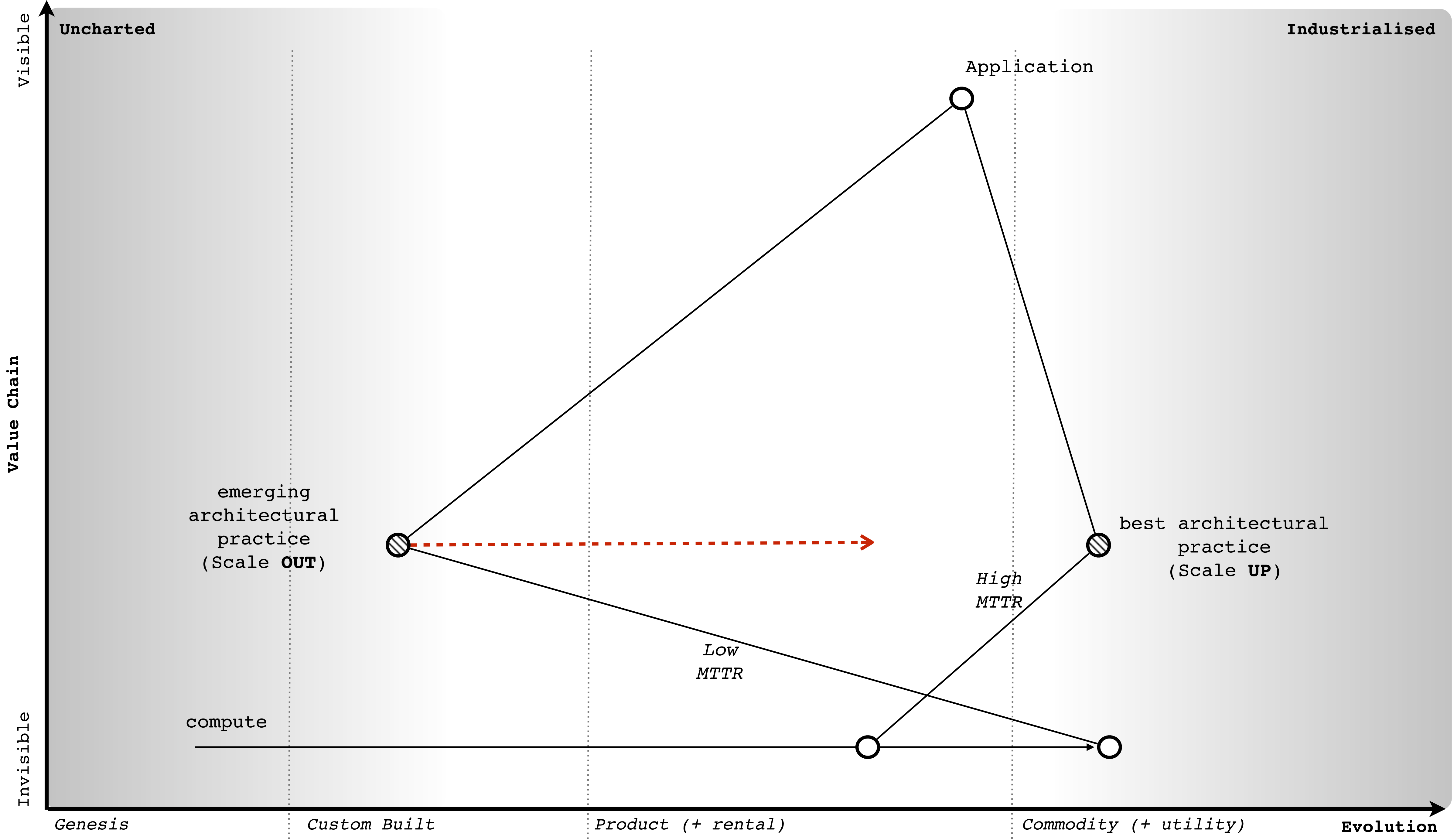


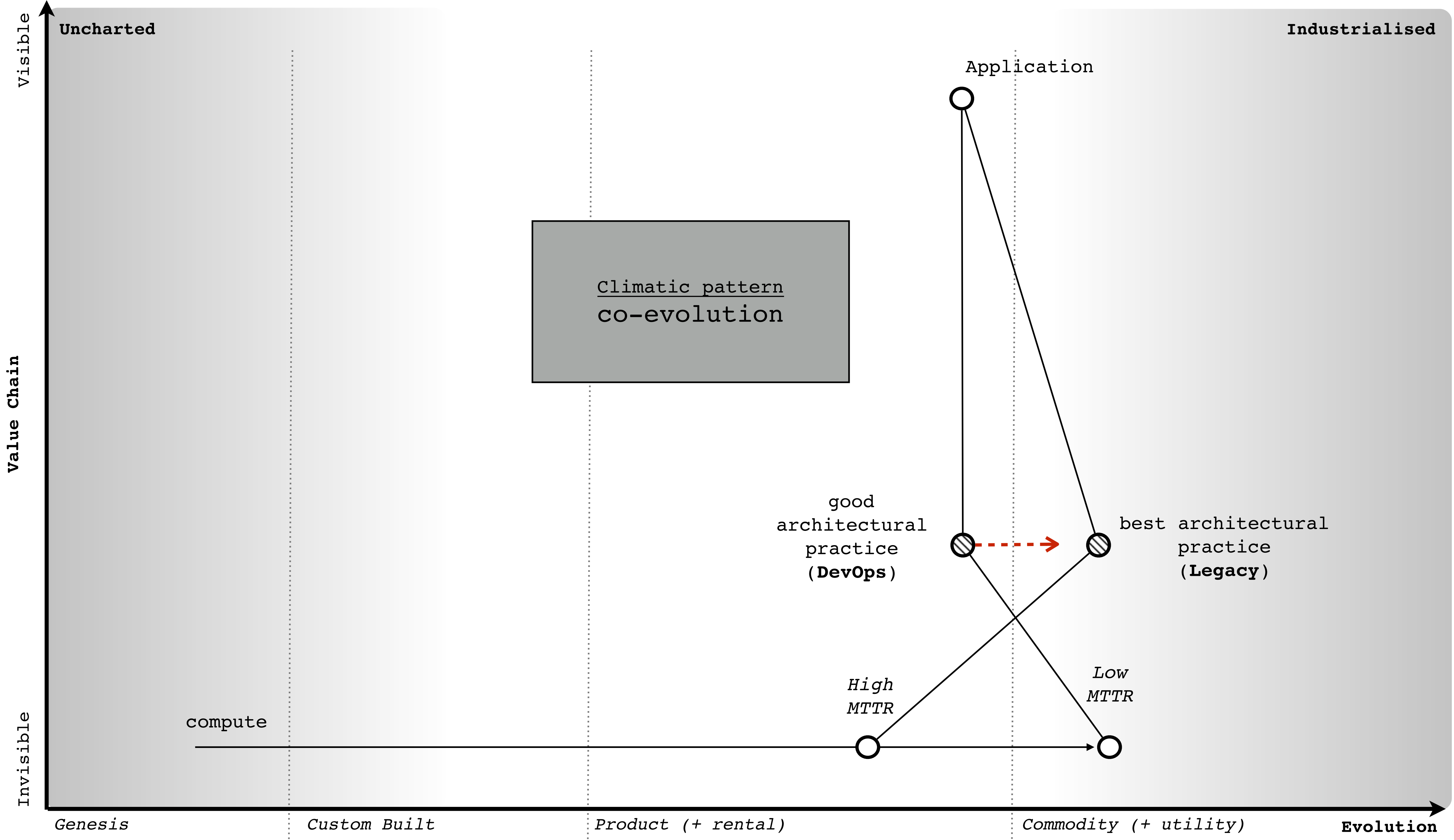
Shouldn't
our
architecture
evolve as
well?

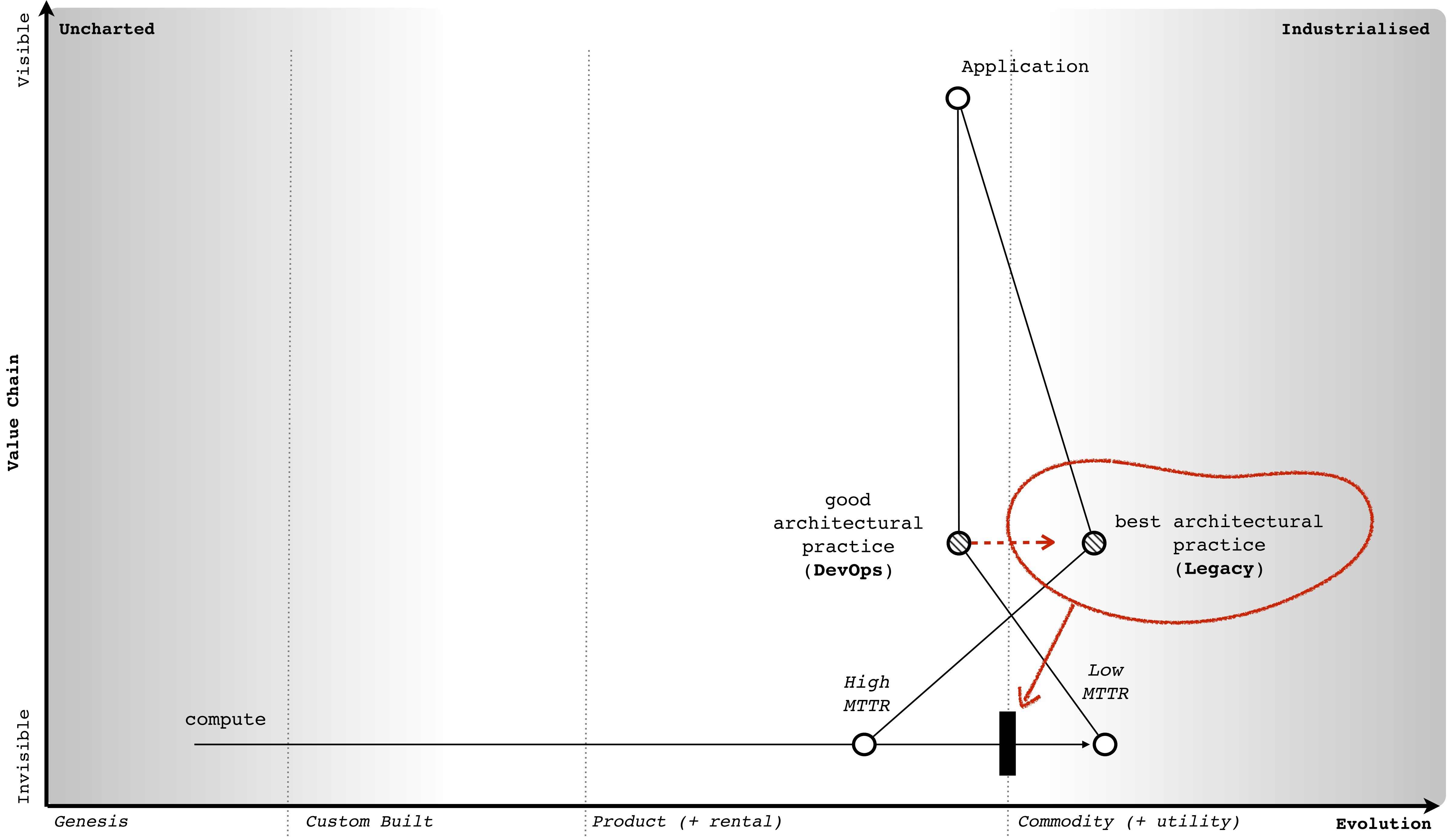


Burn
him!

Heretic







it's all about
user needs,
measurement,
iterative cycles,
automation,
collaboration,
speed, feedback
loops, ...



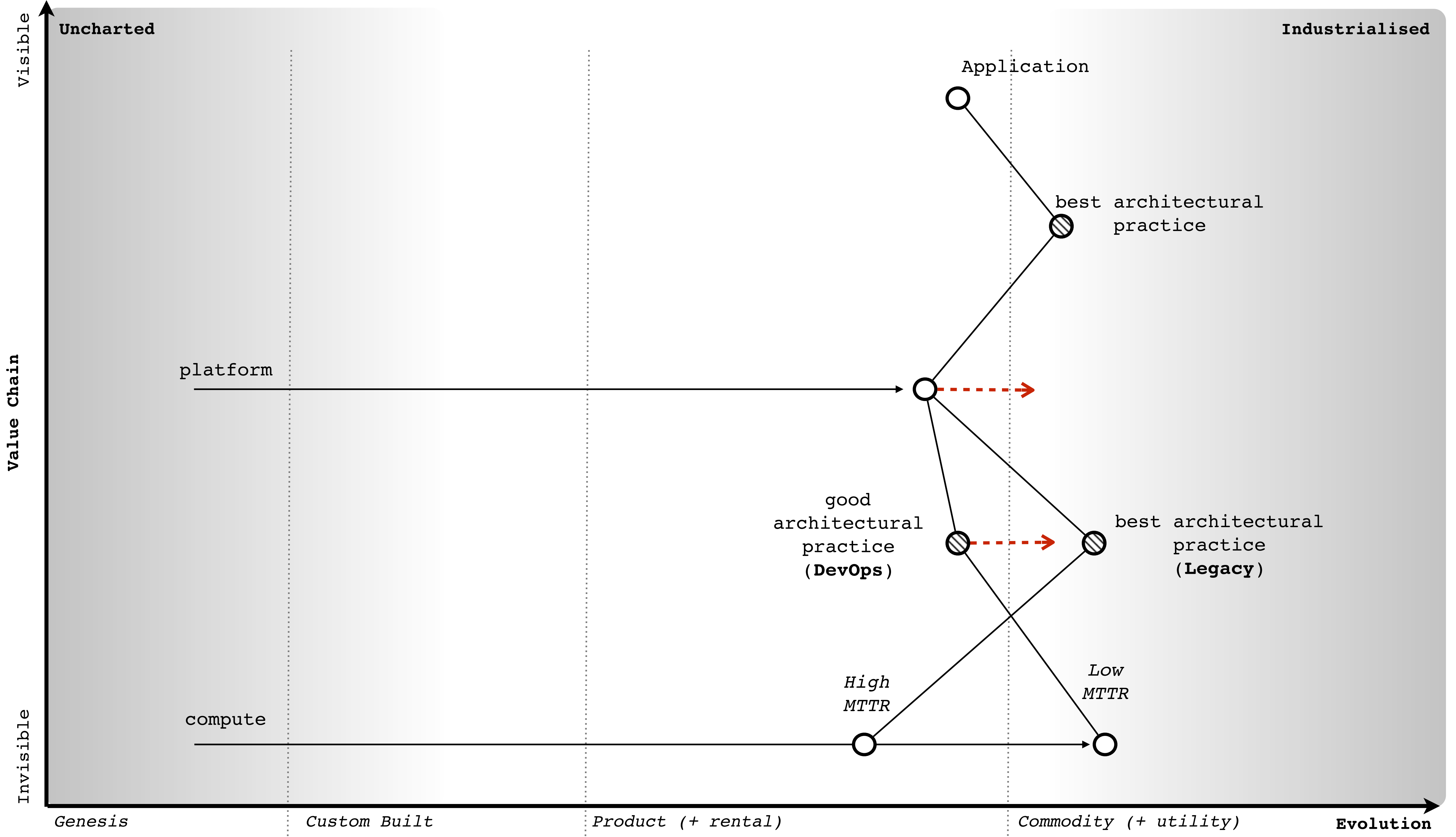


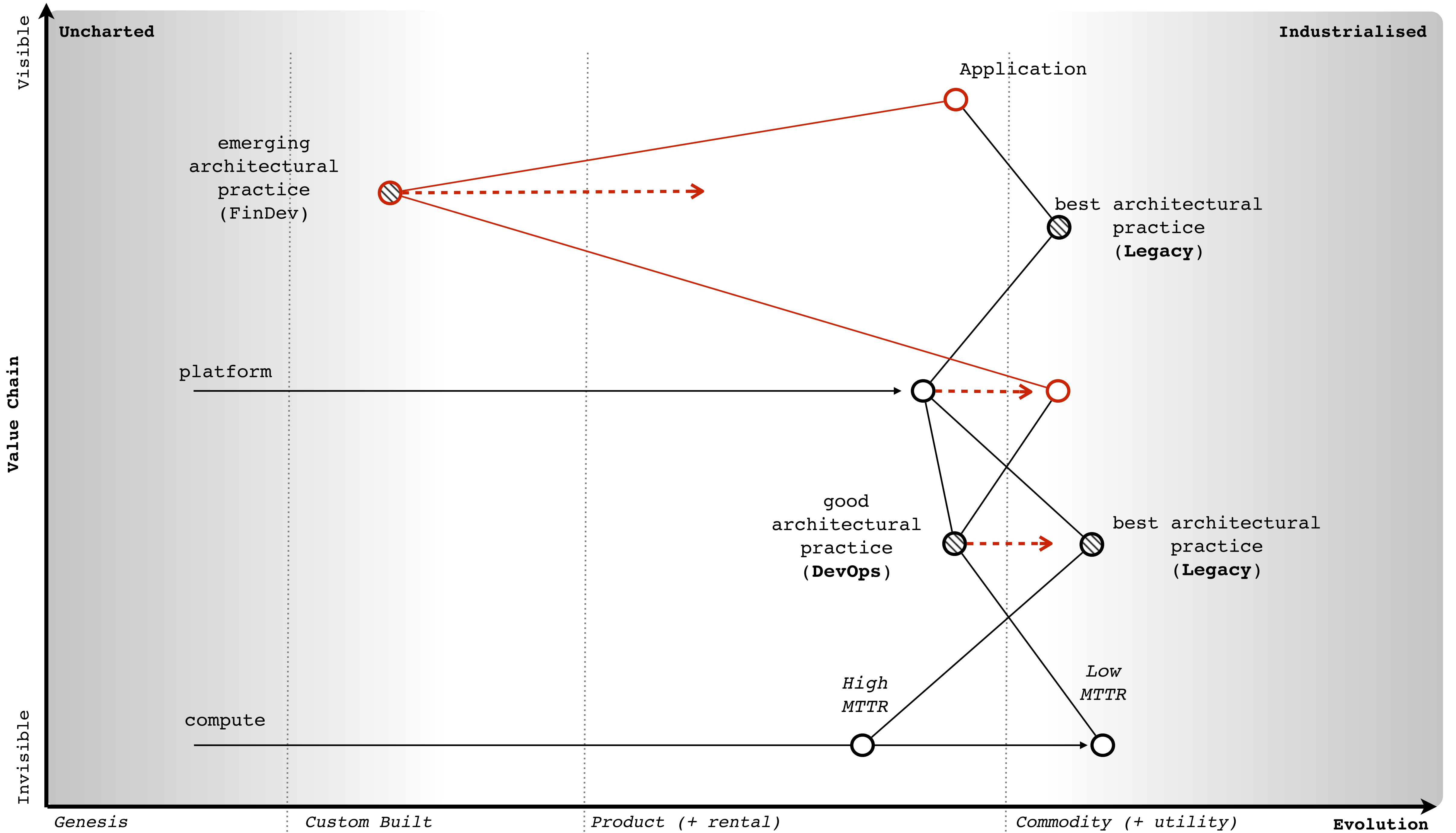
So was ITIL

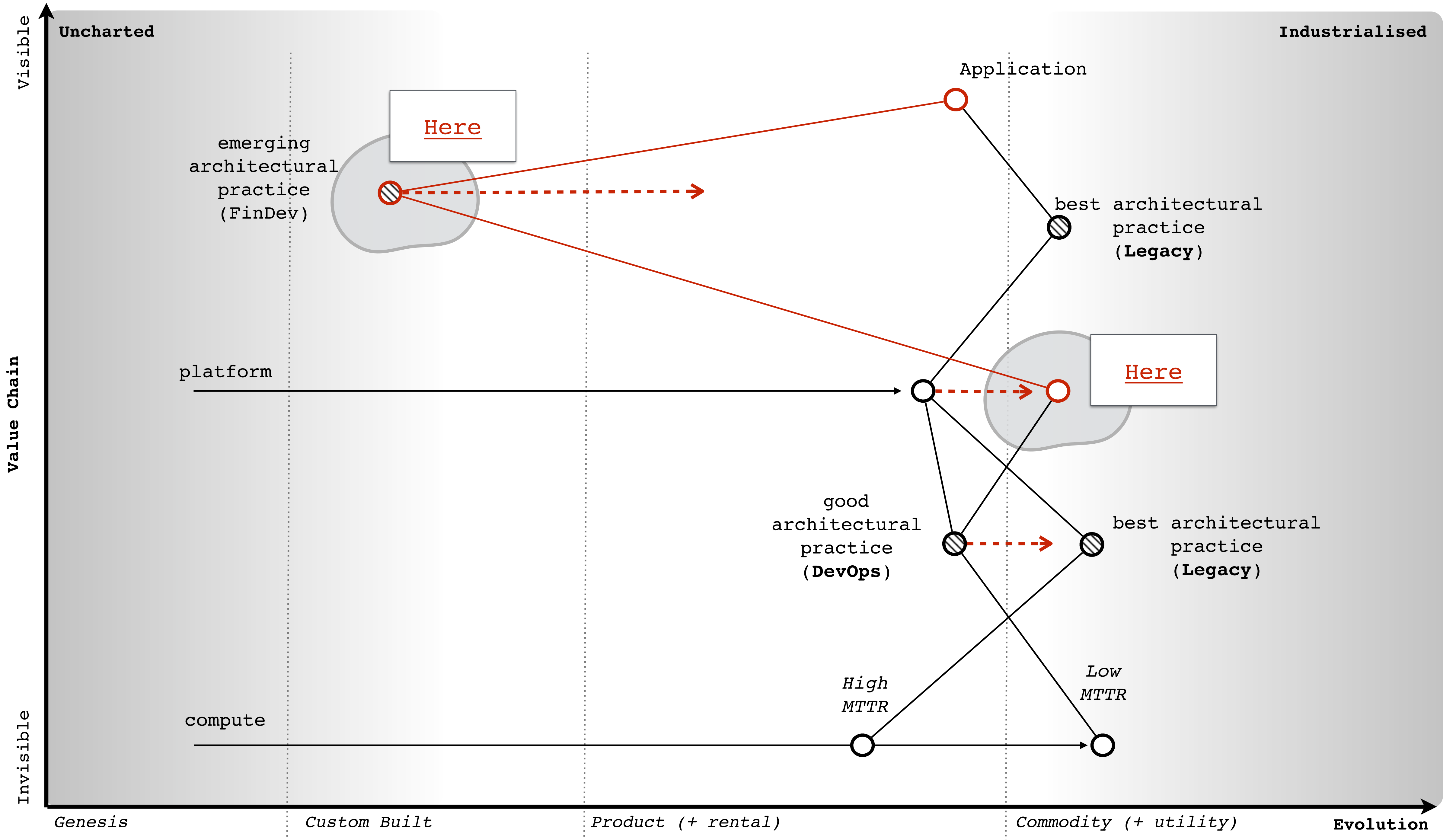



Burn
him!

Heretic

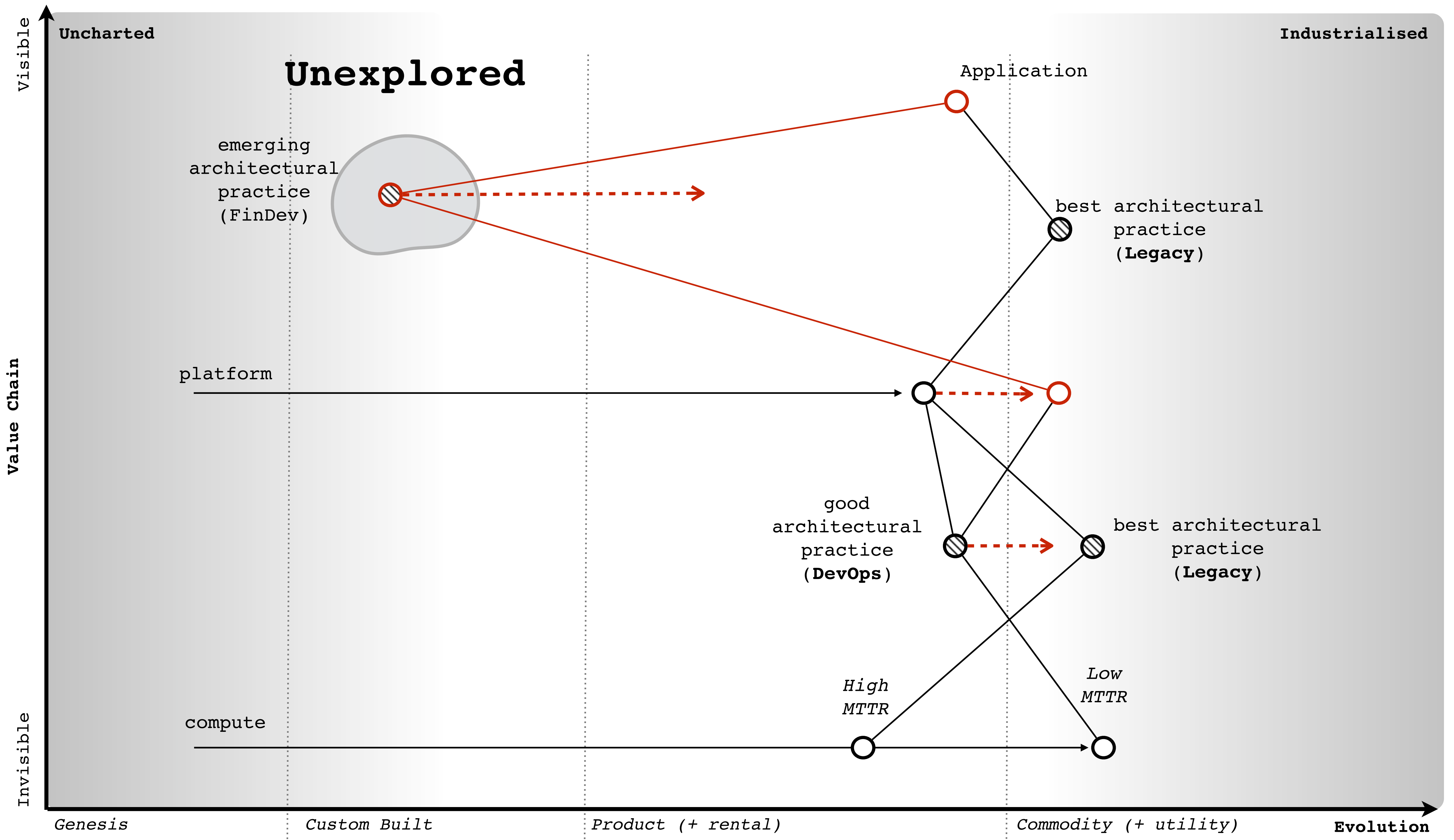








So what new
practices will
emerge?



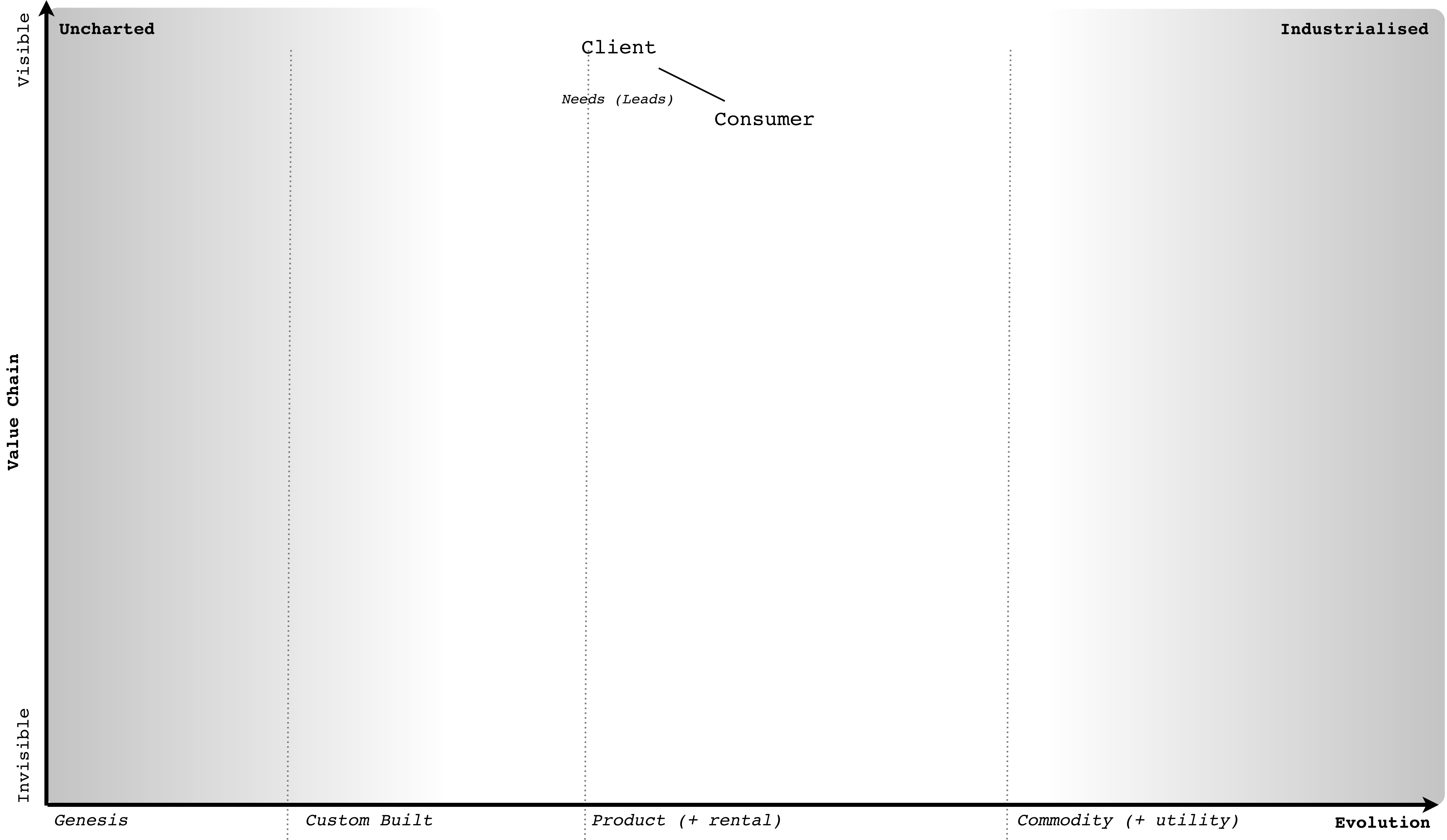


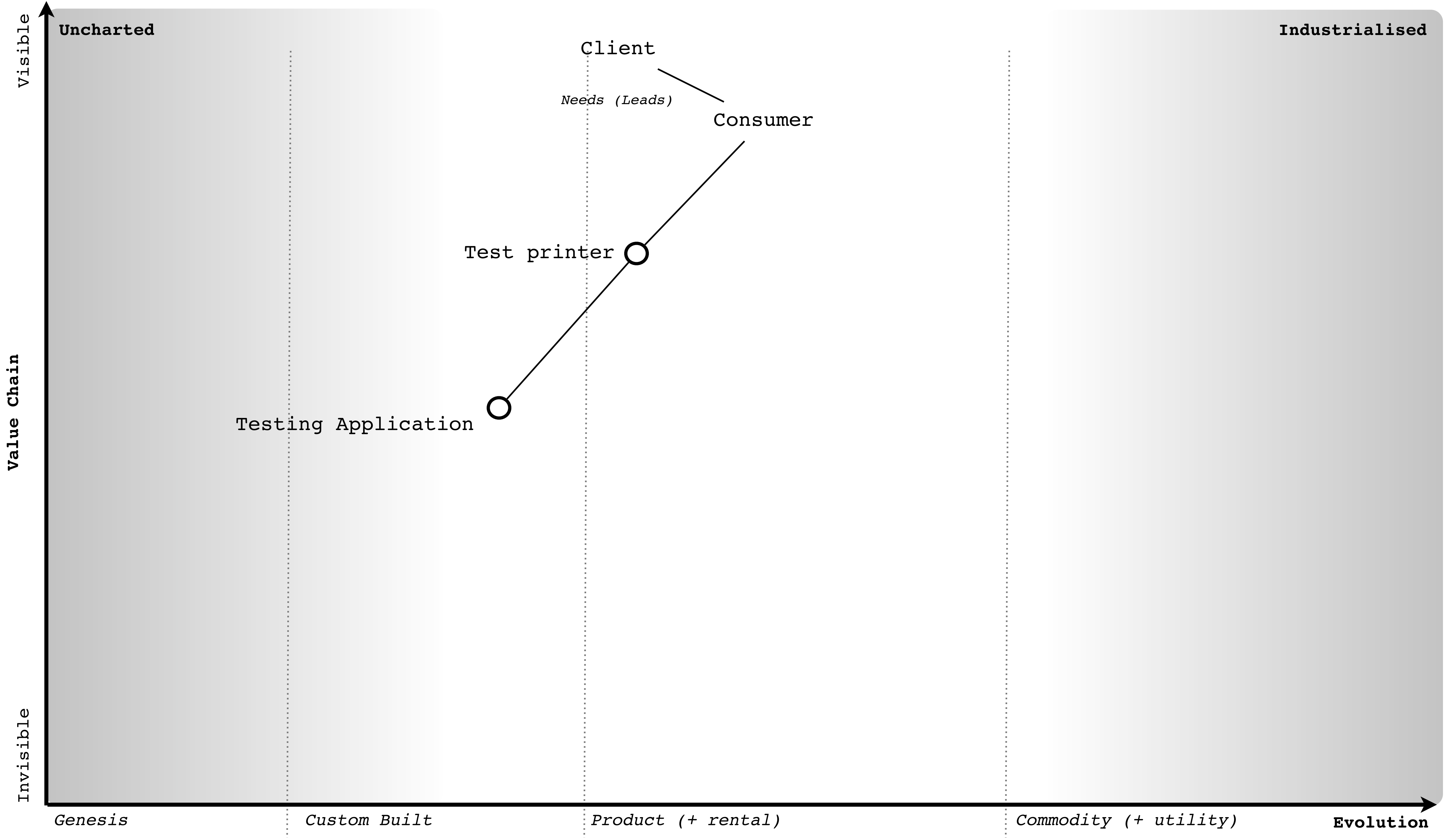
Anita Hart, April 2007, CC BY-NC-ND 2.0
<https://www.flickr.com/photos/anitahart/472099476>

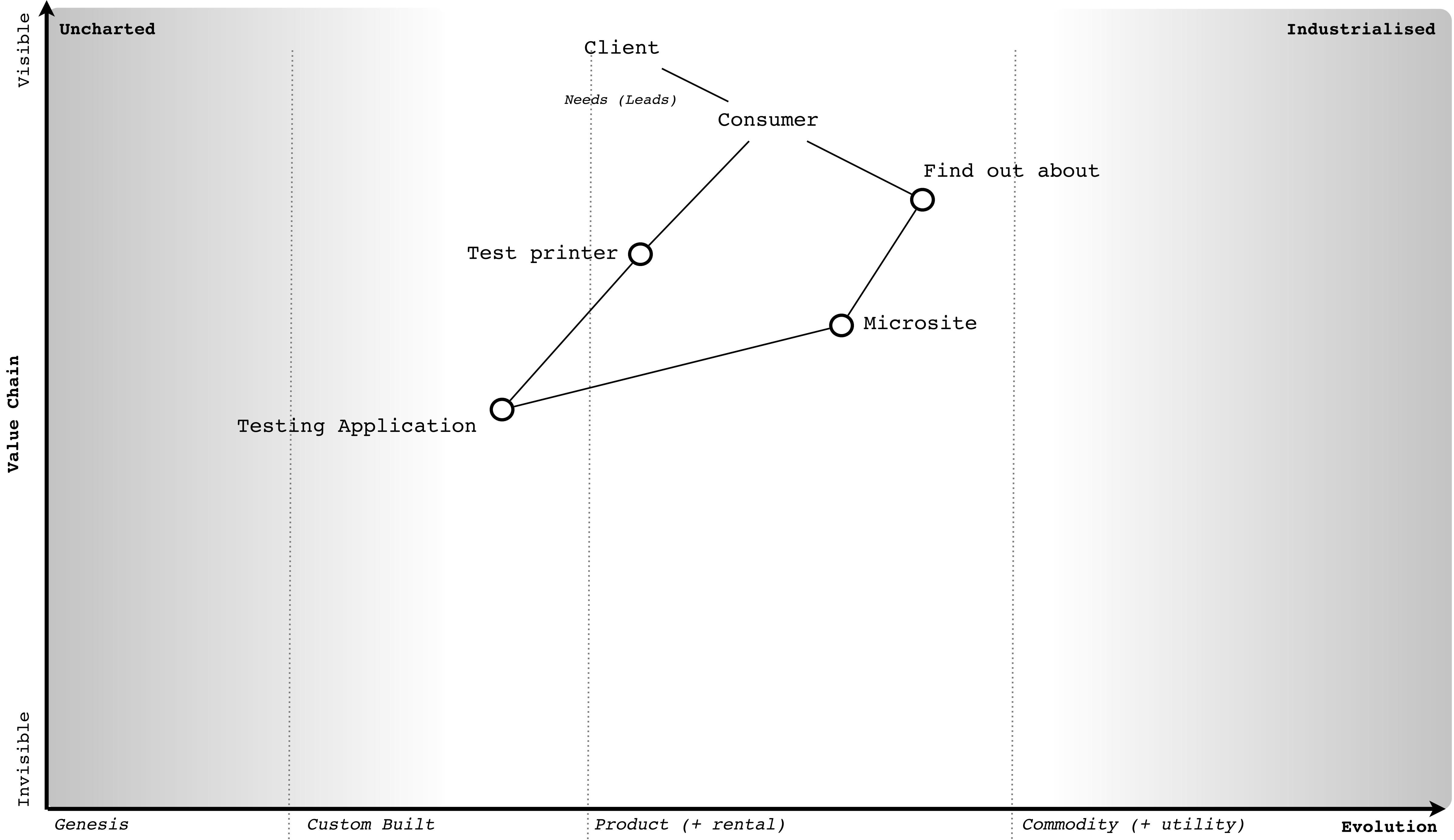
Obscurity of Cost

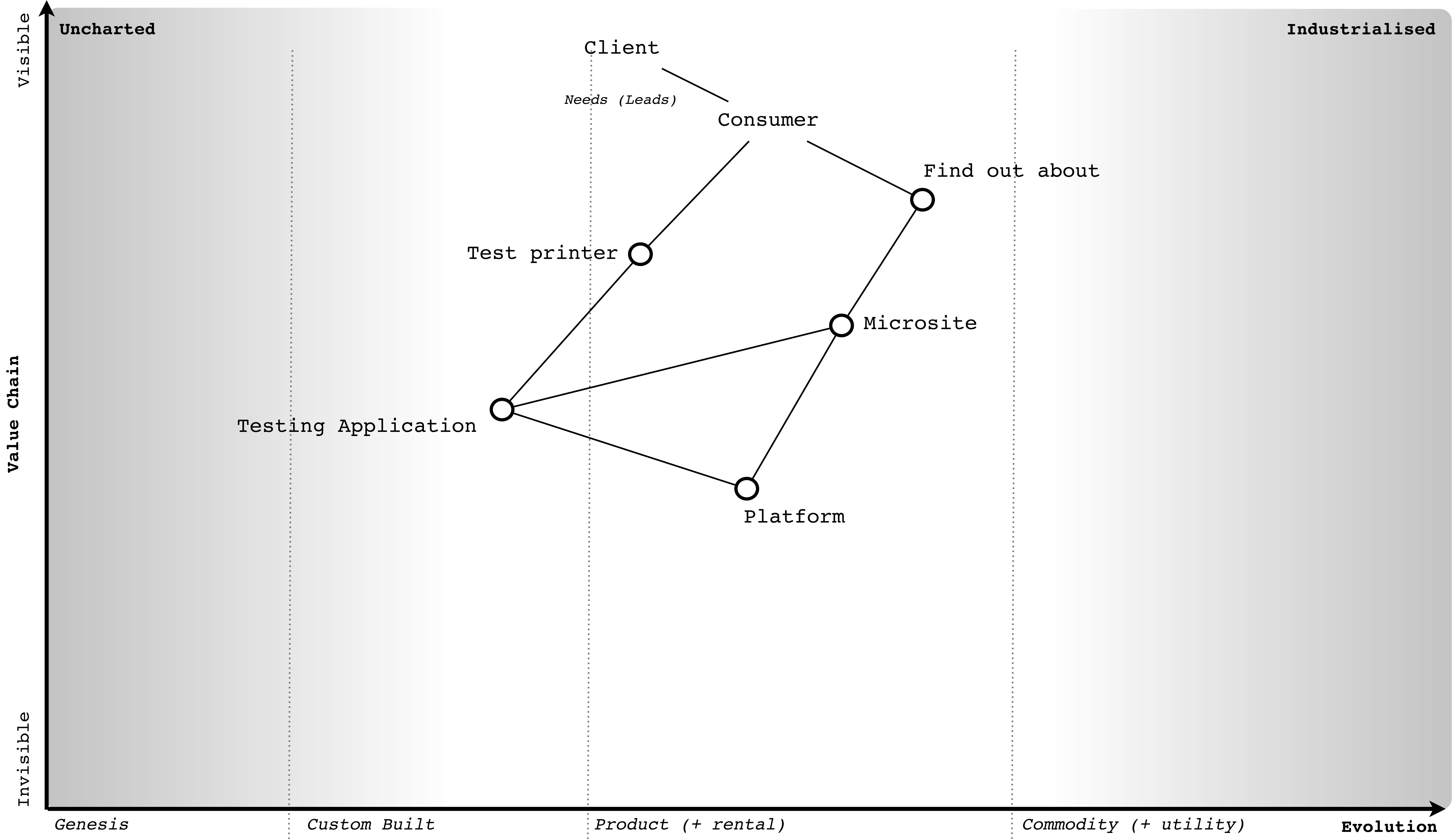


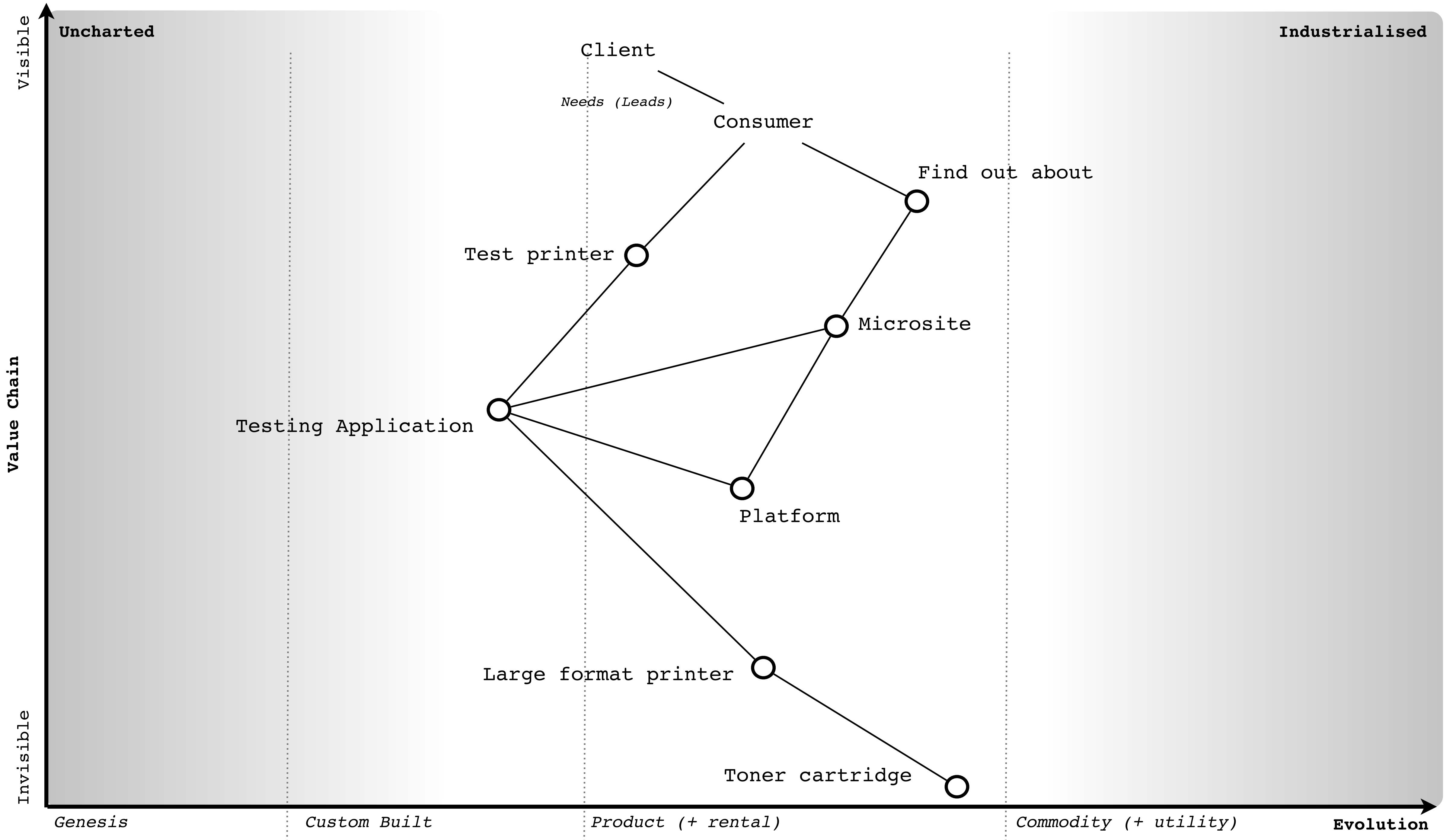


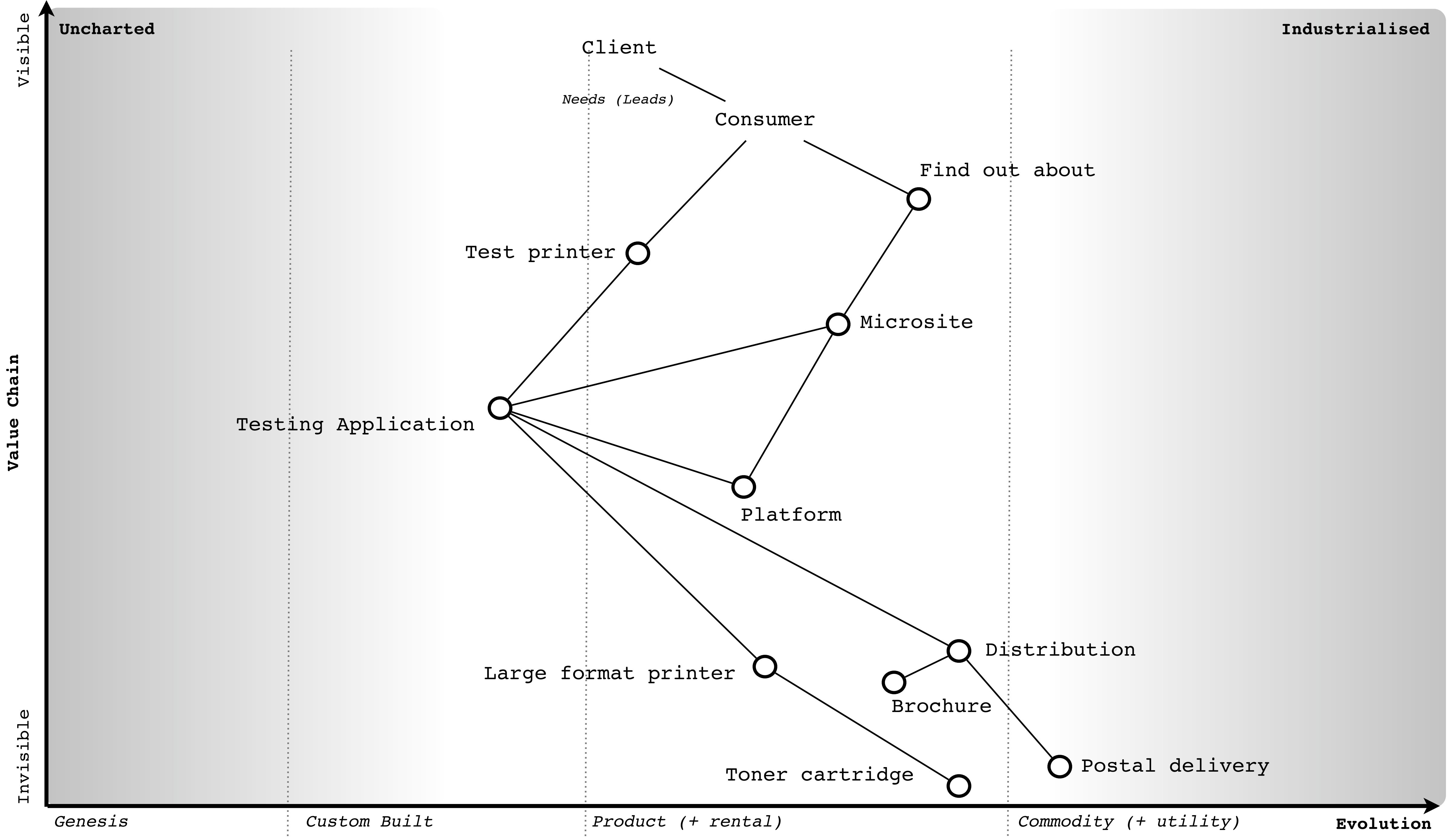


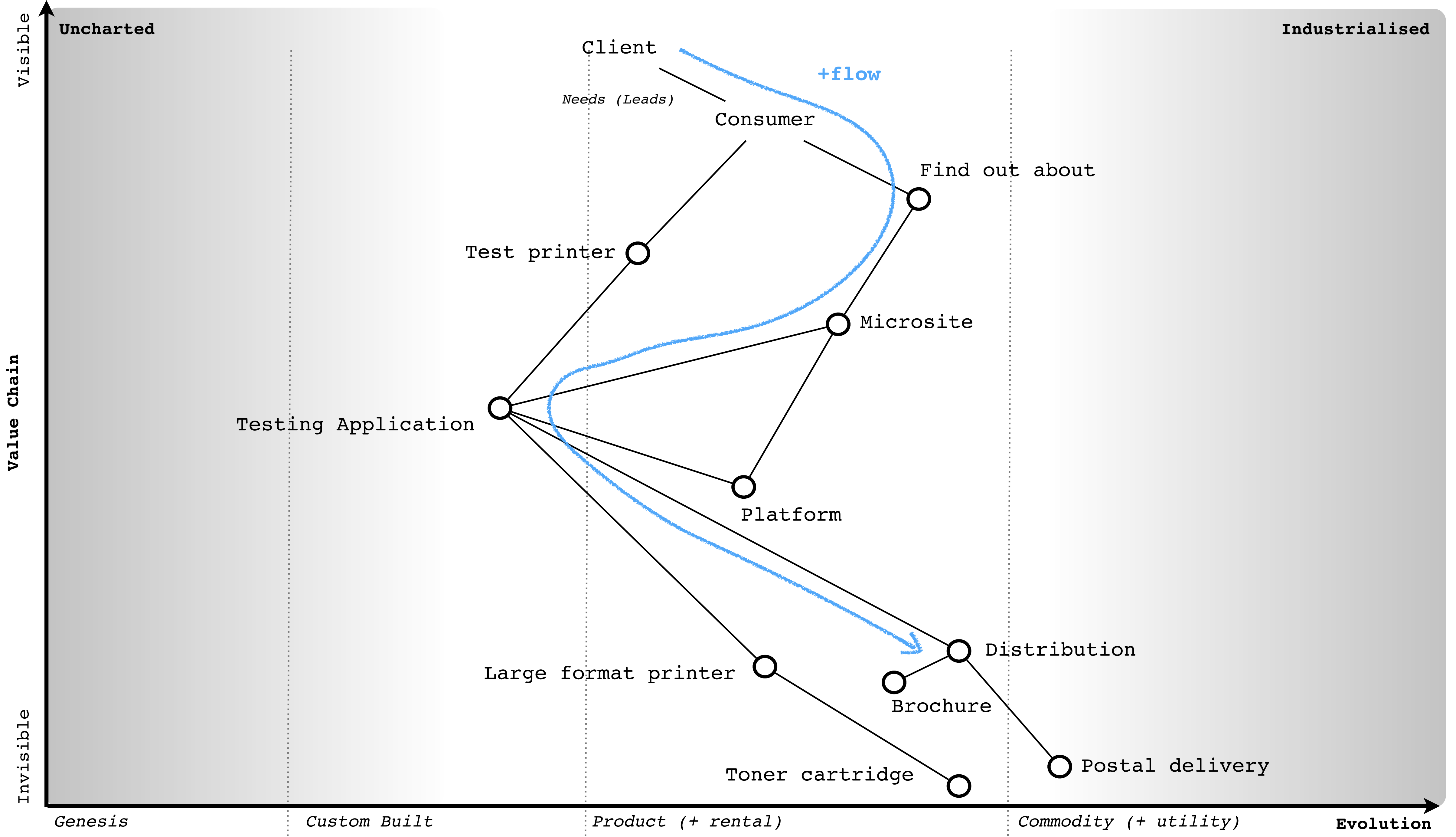


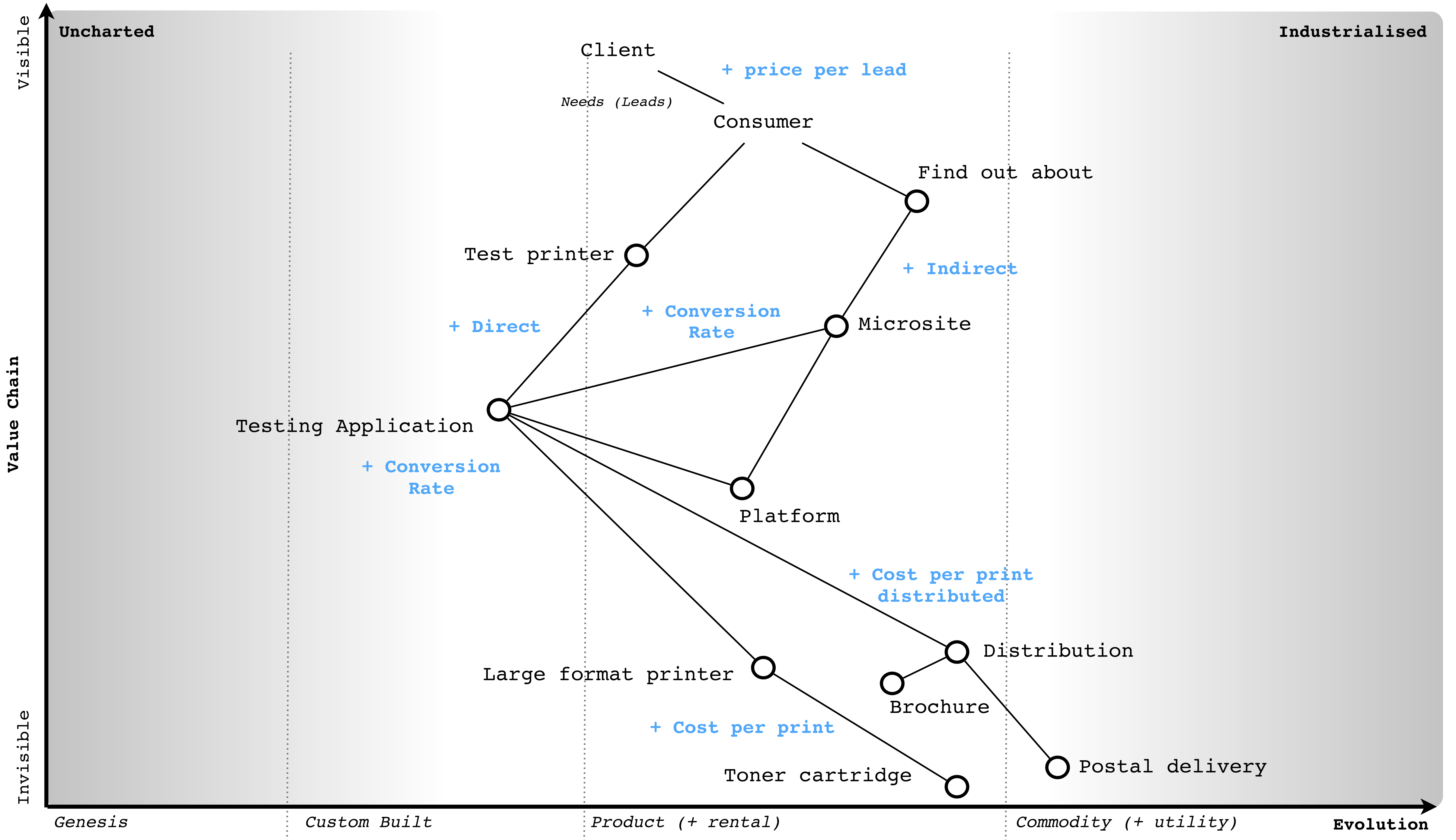


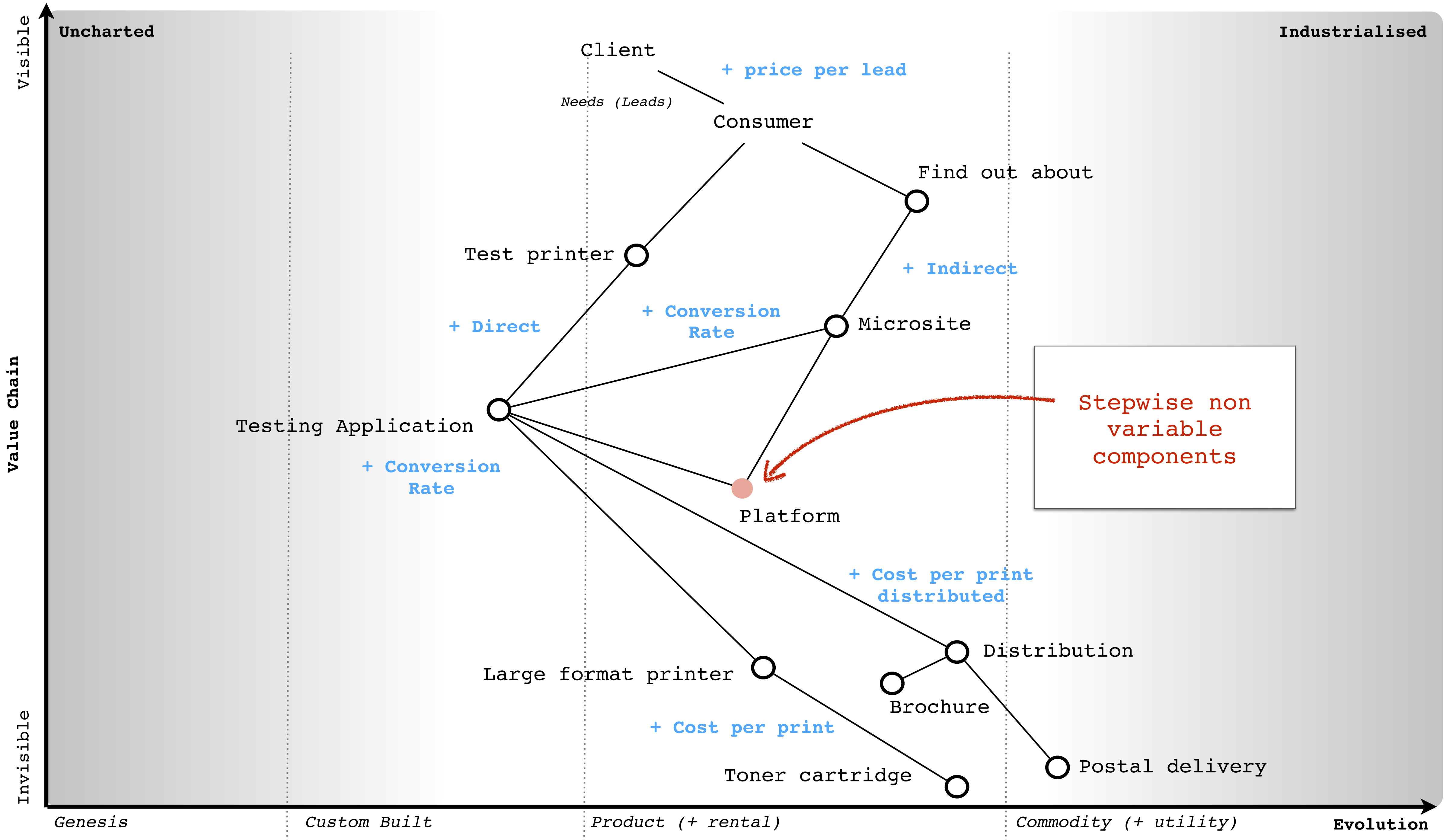


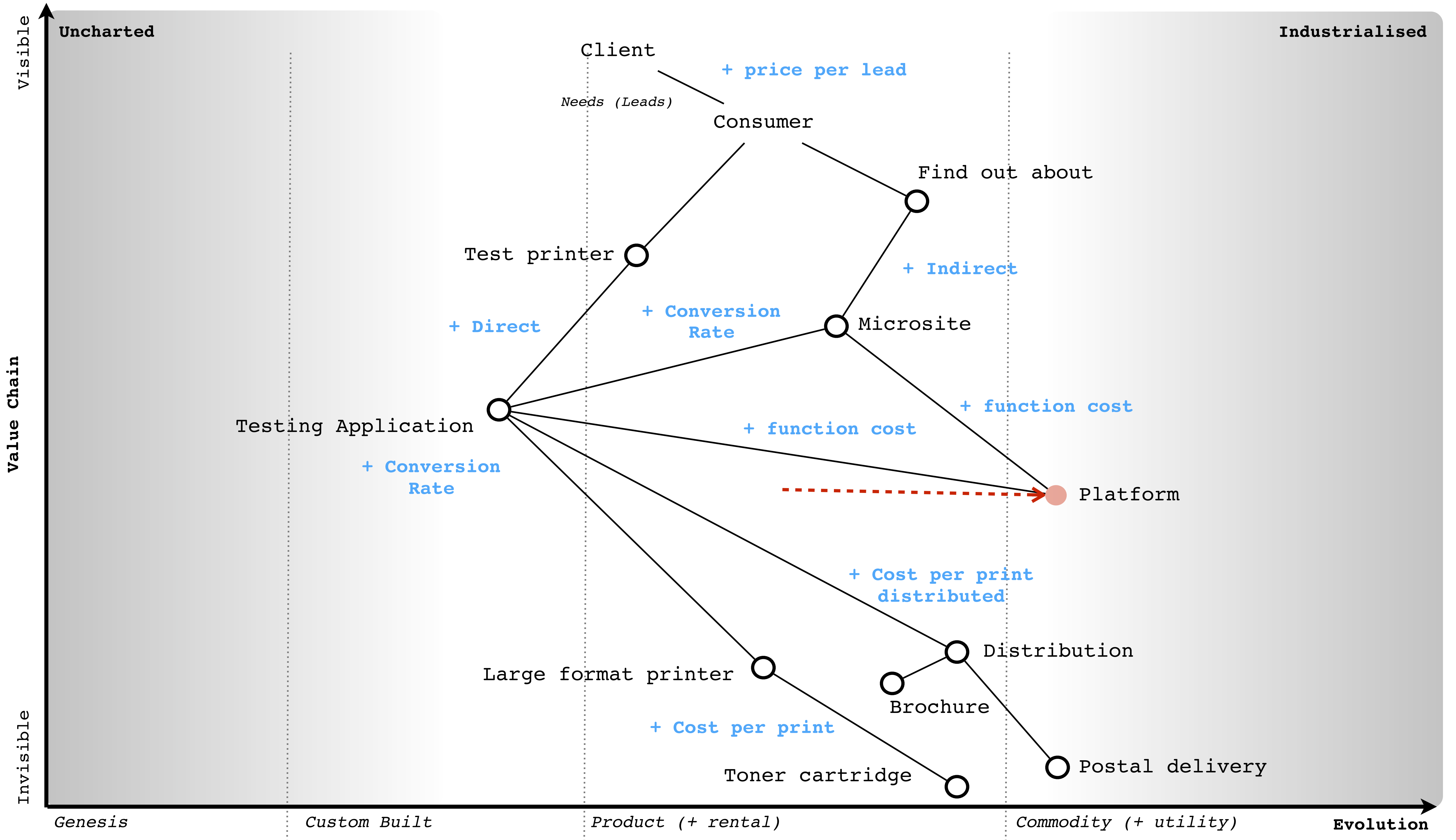










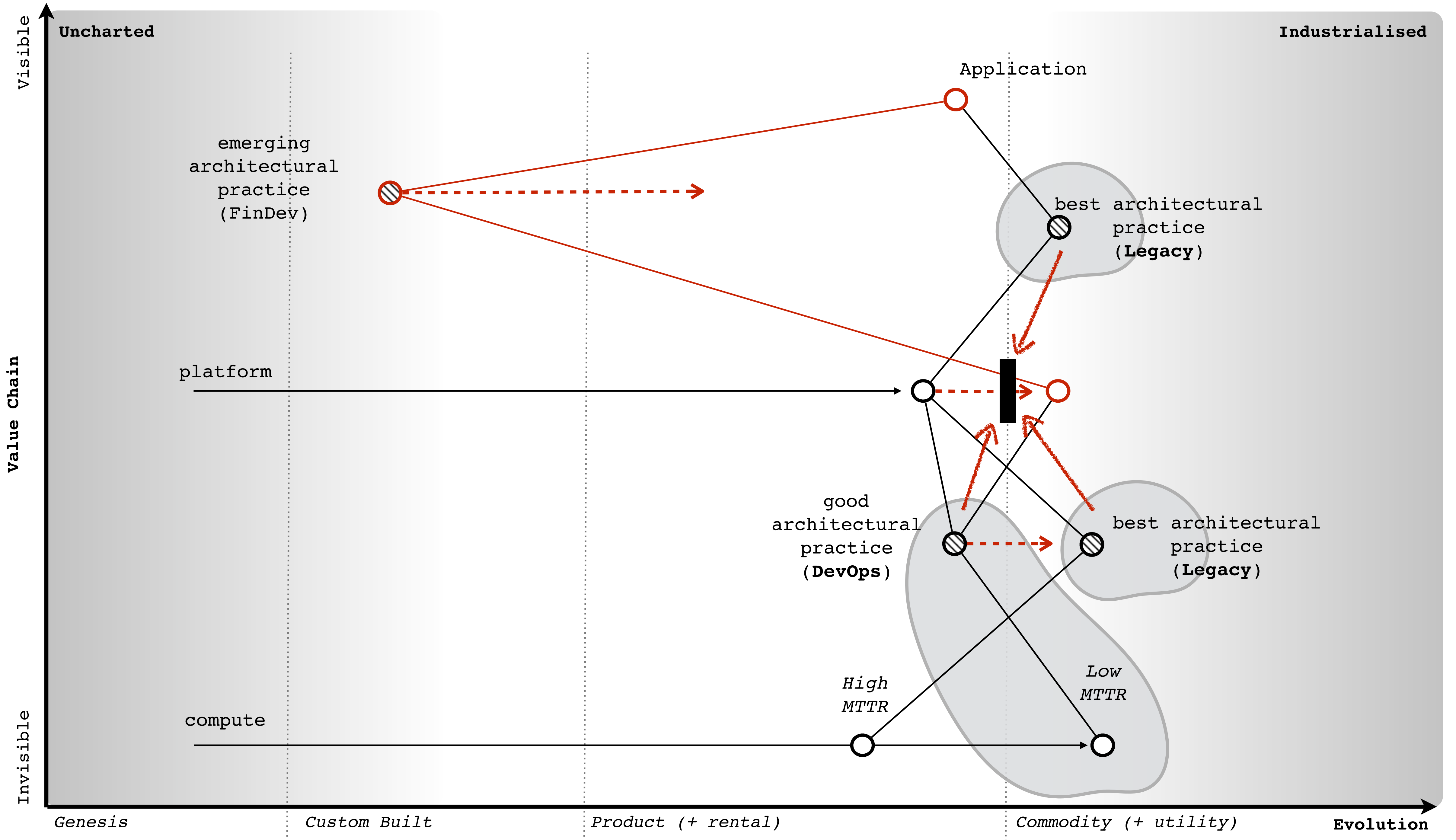


- Enabled worth base development

- Enabled worth base development
- Refactoring had financial value

- Enabled worth base development
- Refactoring had financial value
- Monitoring by flow of financial value

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- Refactoring had financial value
- Monitoring by flow of financial value
- Rapid acceleration in speed of development and code re-use





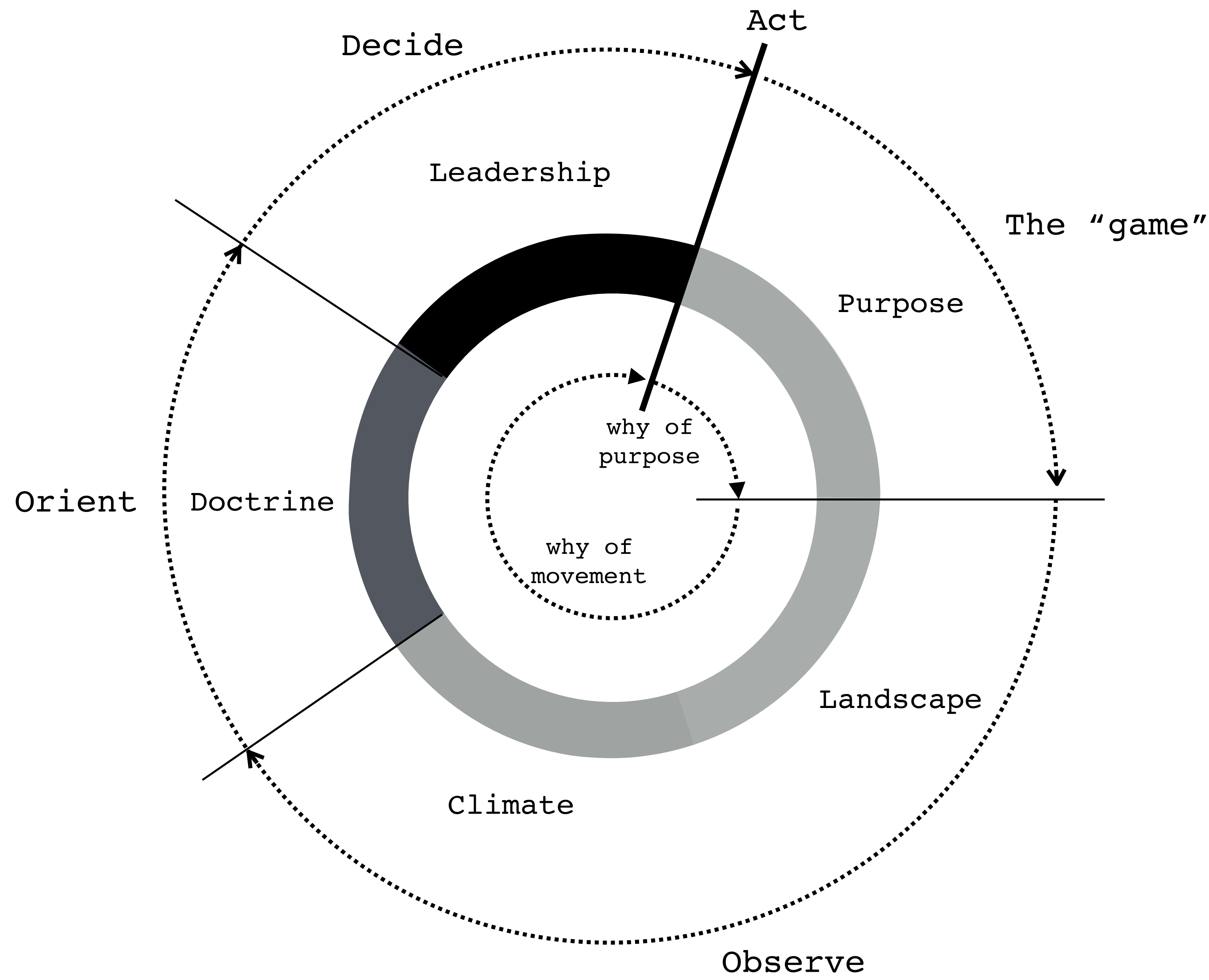
DevOps is
future
legacy

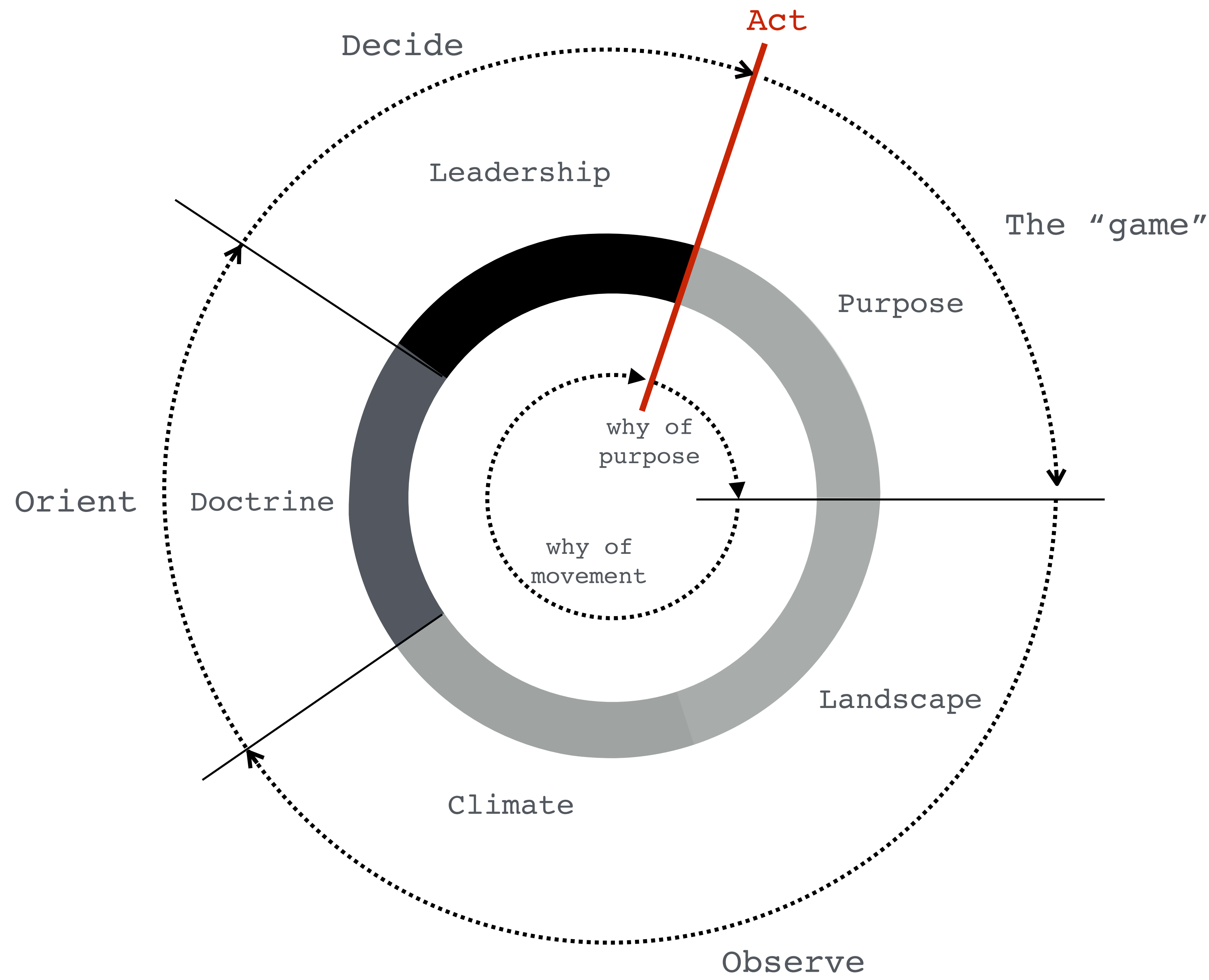


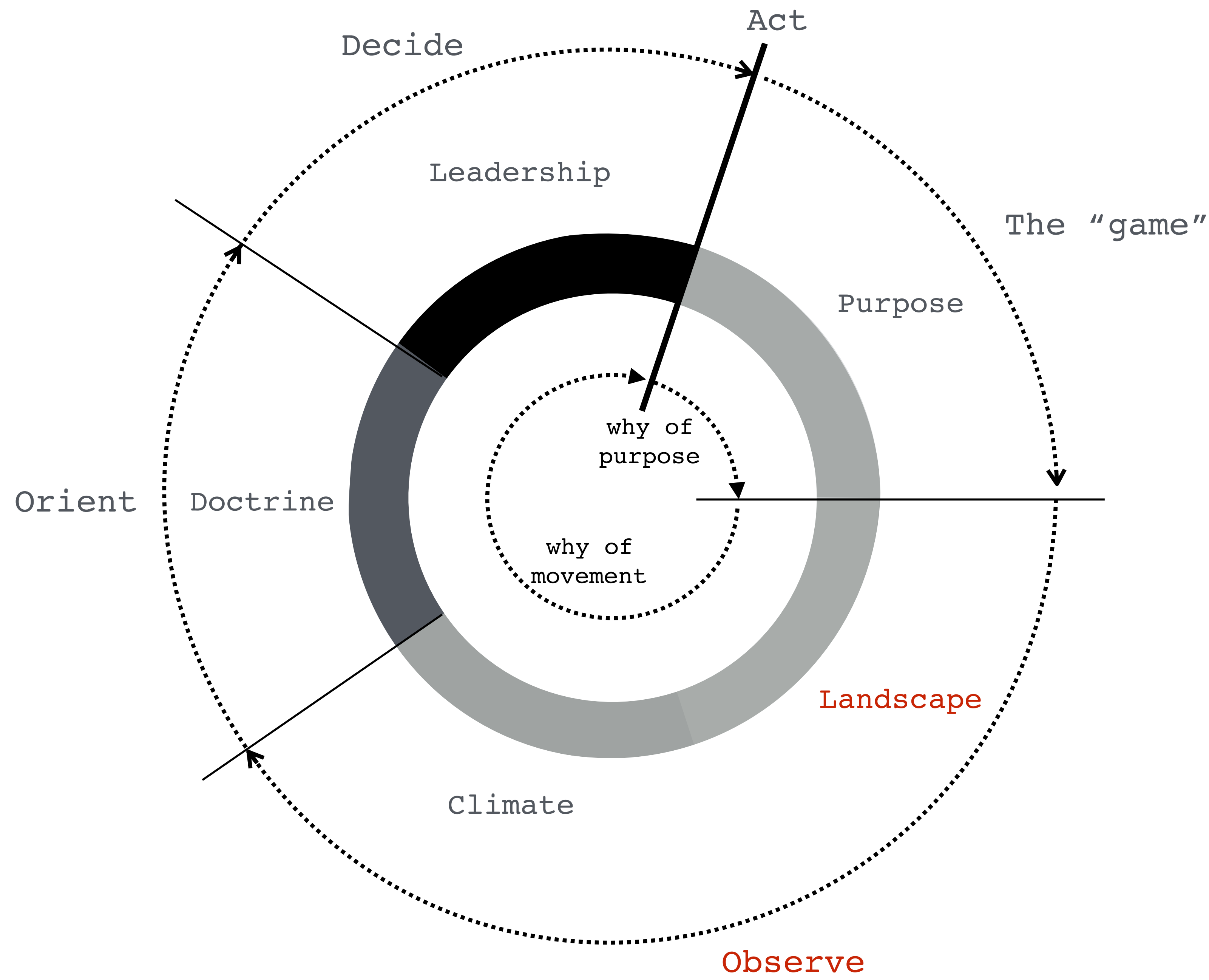
Burn
him!

Heretic

Summary









"Crossing the river by feeling the stones"

Deng Xiaoping

Learning More

medium.com/wardleymaps
creative commons



swardley
@swardley

Toying with the idea of a mapping camp - 3.5 hour tutorial + some speakers, late Sept, in London - need volunteers, sponsors. Any interest?

1:05pm · 2 Feb 2017 · TweetDeck

100
volunteers,
building,
sponsors

2hrs

Map Camp Location

Map Camp

5th October 2017, Newspeak House

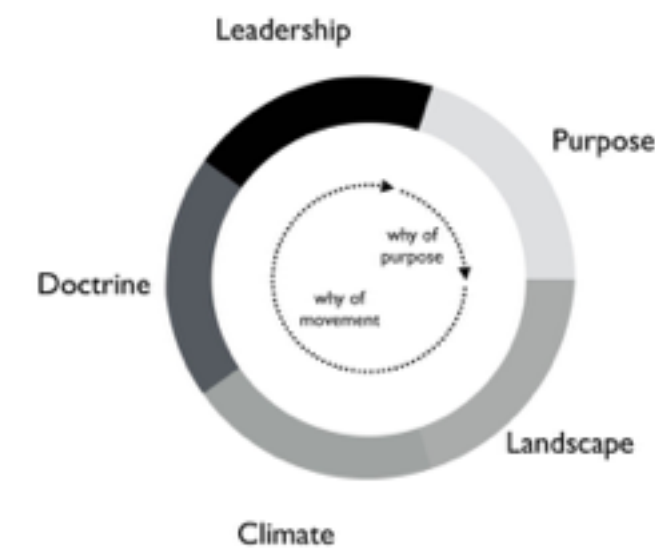
Volunteer



Lost?

'Does this strategy makes sense?' Most Executives have no reasonable way to answer this simple question.

Find Your Path



Mapping and the Strategic Cycle

Before launching your team of elves and dwarves into the midst of a battle then the first thing you do is scout out the landscape and improve your situational awareness.

Read More



We'd Love to See You

Join us for a workshop and lightening talks with Simon Wardley and friends. We like to call it... **Map Camp**

Register (Soon)

map-camp.com

Wardley Maps Online Mapping Course

– *How to Stop Self-Harm and Get Fit*

Enrol today at:
learn.leadingedgeforum.com



Learn how to identify your customers, their needs and their journeys and anticipate the future by looking at economic patterns. By undertaking this online course, you will benefit from:

- Identifying and reacting faster to different business opportunities.
- Learning to communicate and collaborate in a fast-paced environment.
- Better understanding the landscape of your business.
- Appreciating how to understand and manage inertia and avoid risks.


Discount code : SOCIALMAPS

Thank you

medium.com/wardleymaps
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wardleymaps.com
leadingedgeforum.com

simon.wardley@leadingedgeforum.com
@swardley



Into the
DANGER zone!!

Getting Started
Competitor Analysis
Evolution
Flow
Weak Signals
Ecosystem
Type
Brexit

Getting Started

Competitor Analysis

Evolution

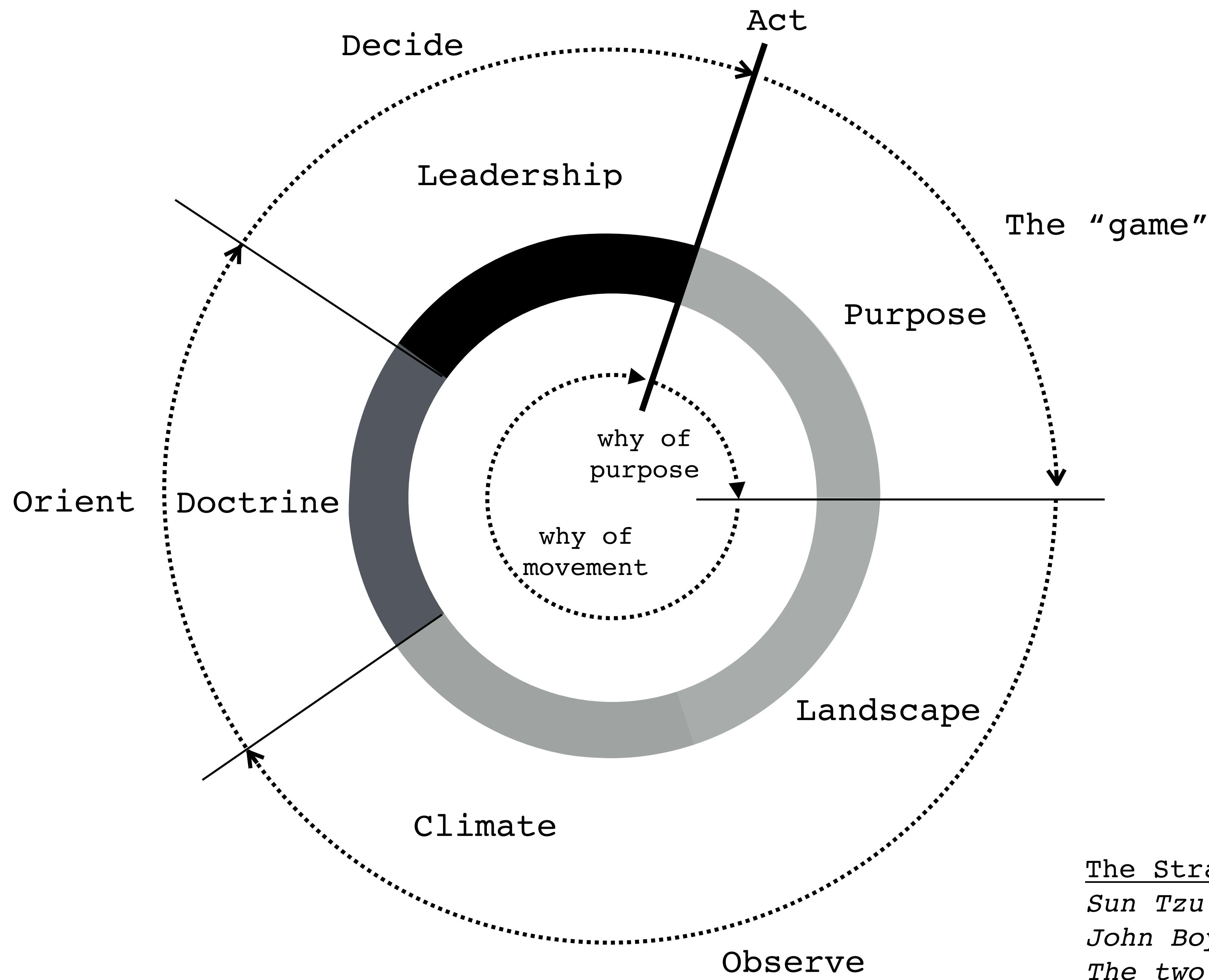
Flow

Weak Signals

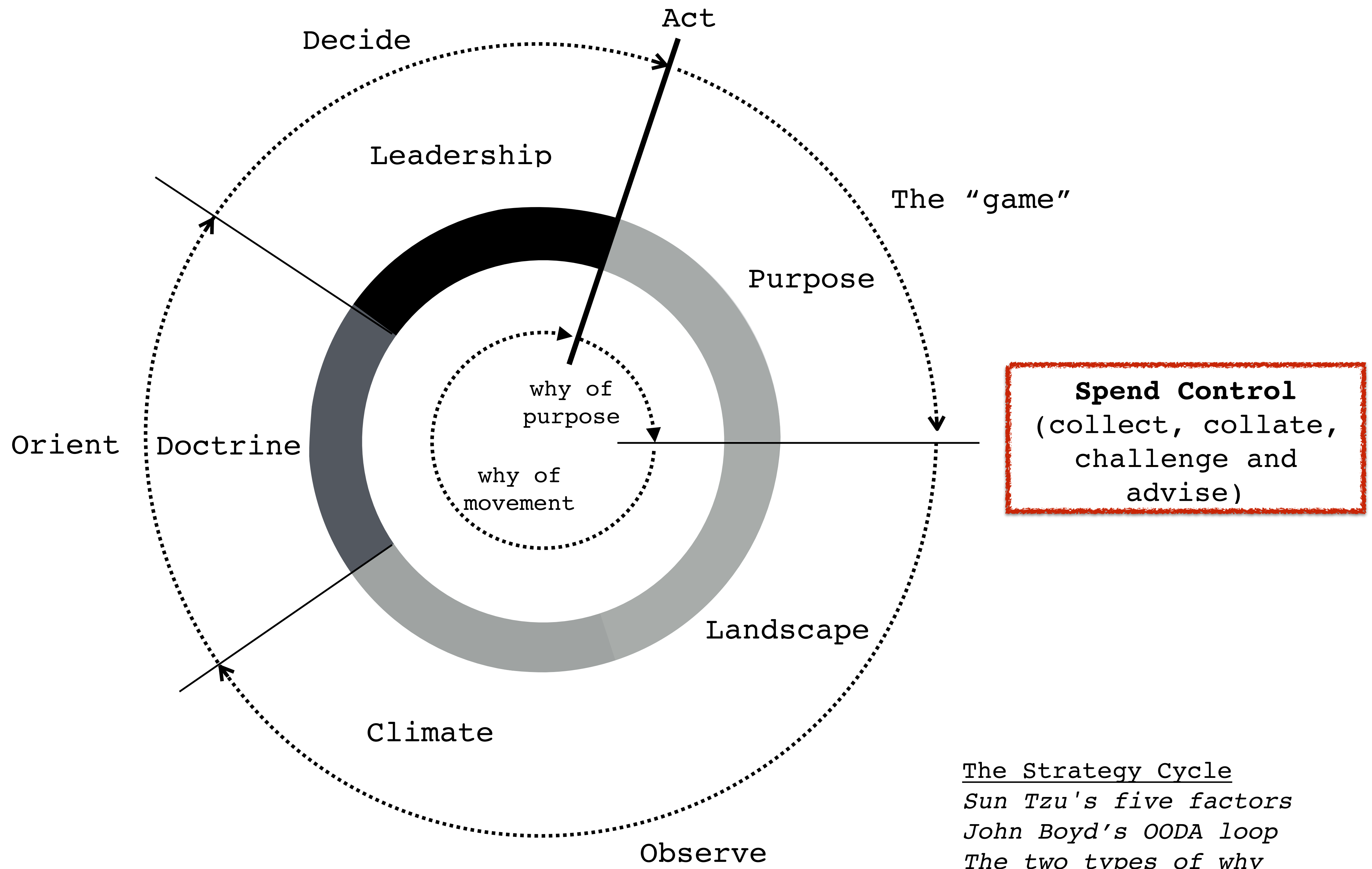
Ecosystem

Type

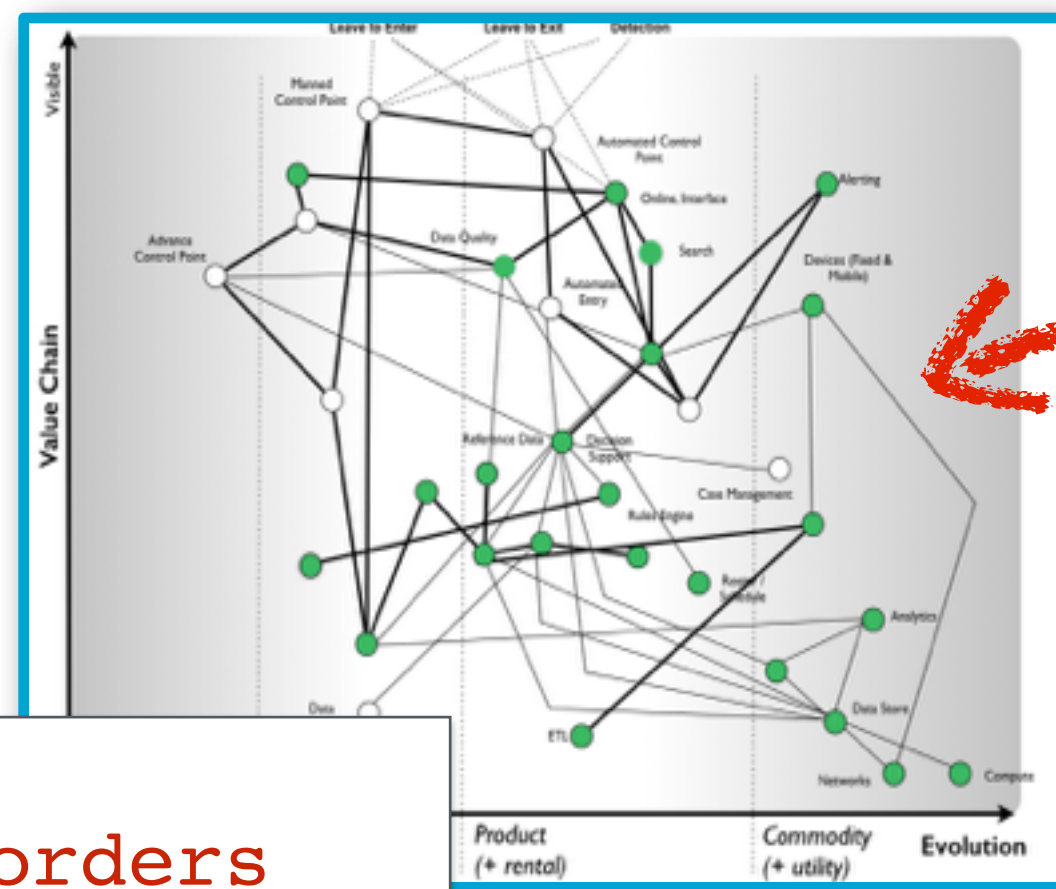
Brexit



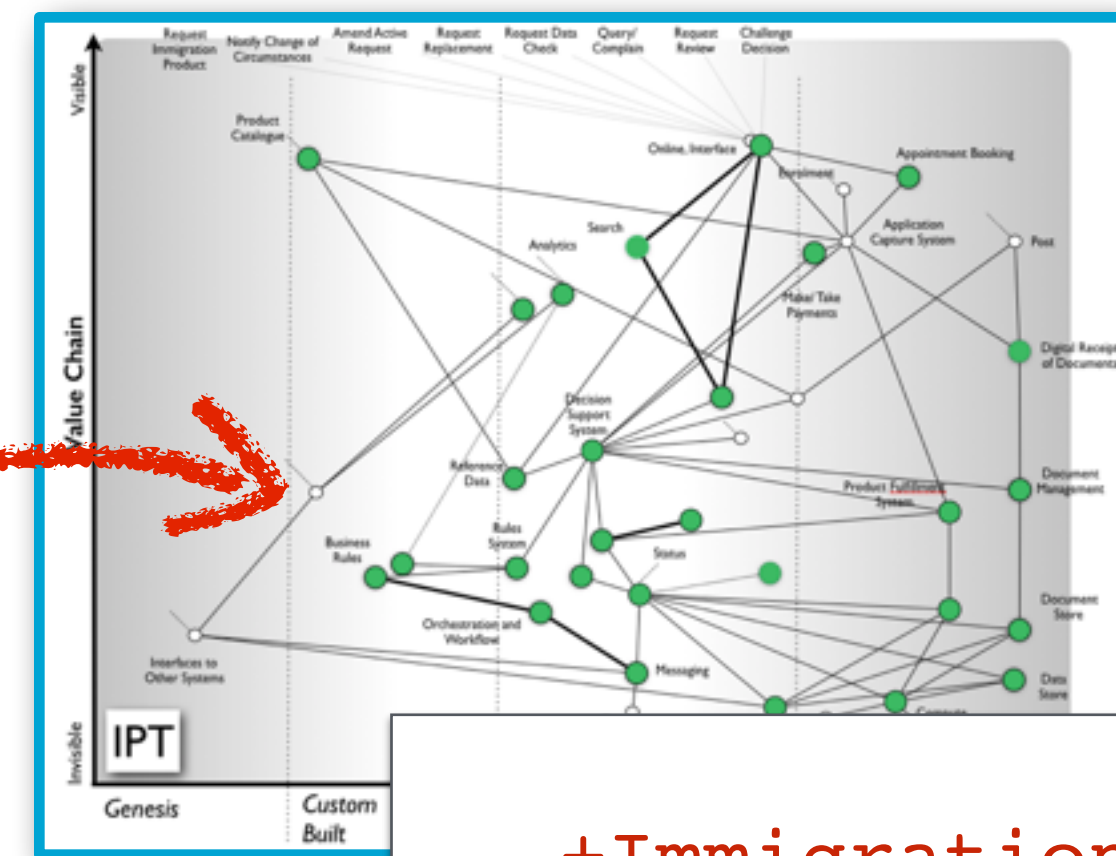
The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop
The two types of why



The Strategy Cycle
Sun Tzu's five factors
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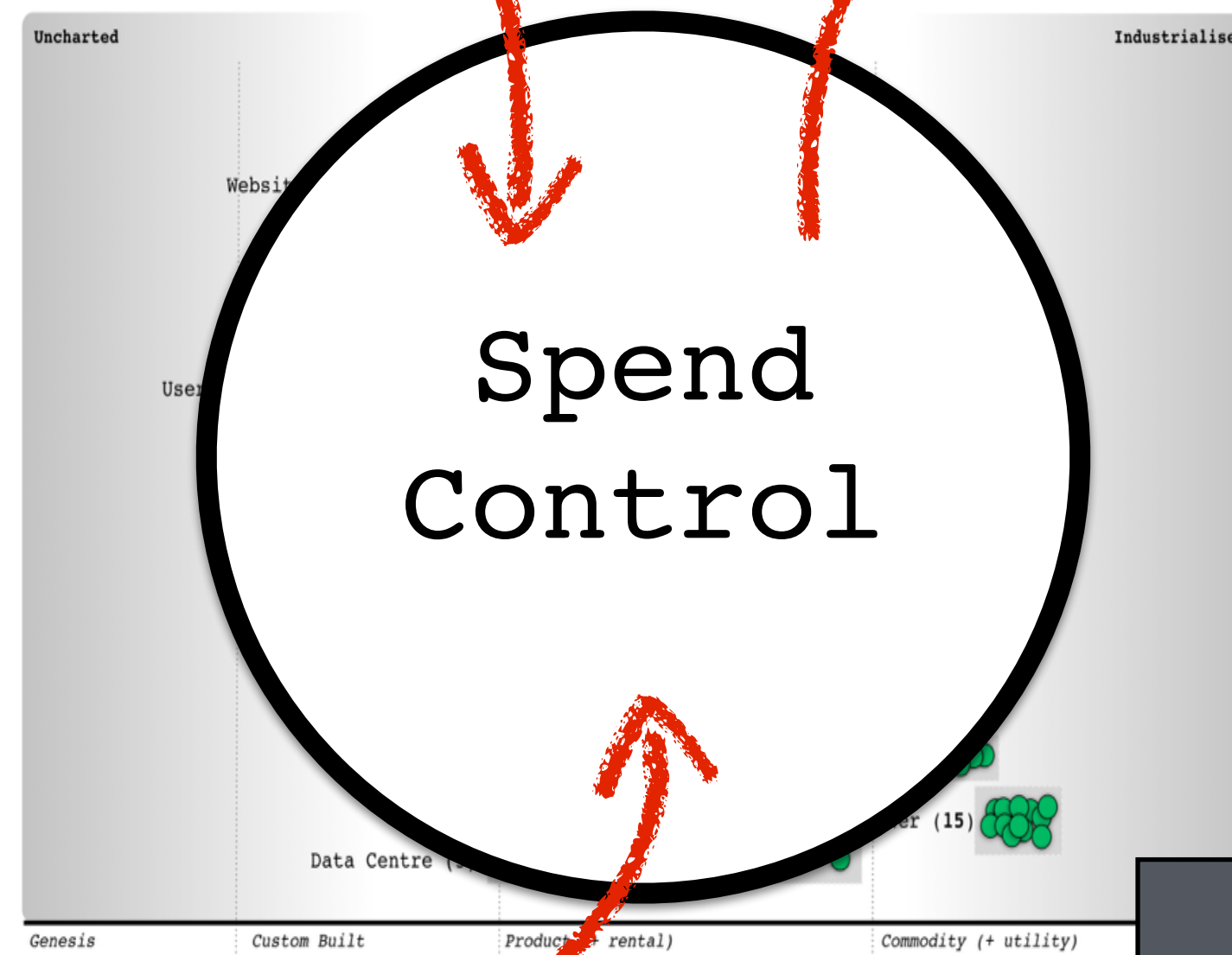
+Borders



+Immigration

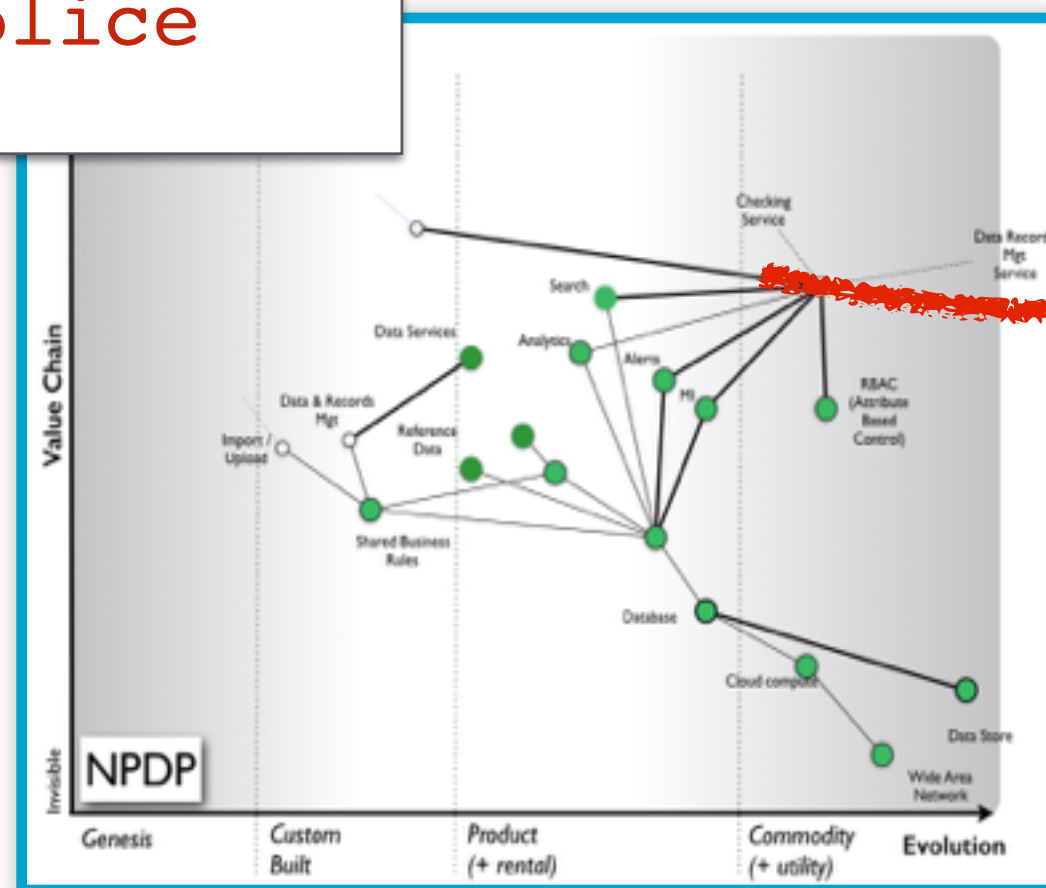
Learn

Challenge



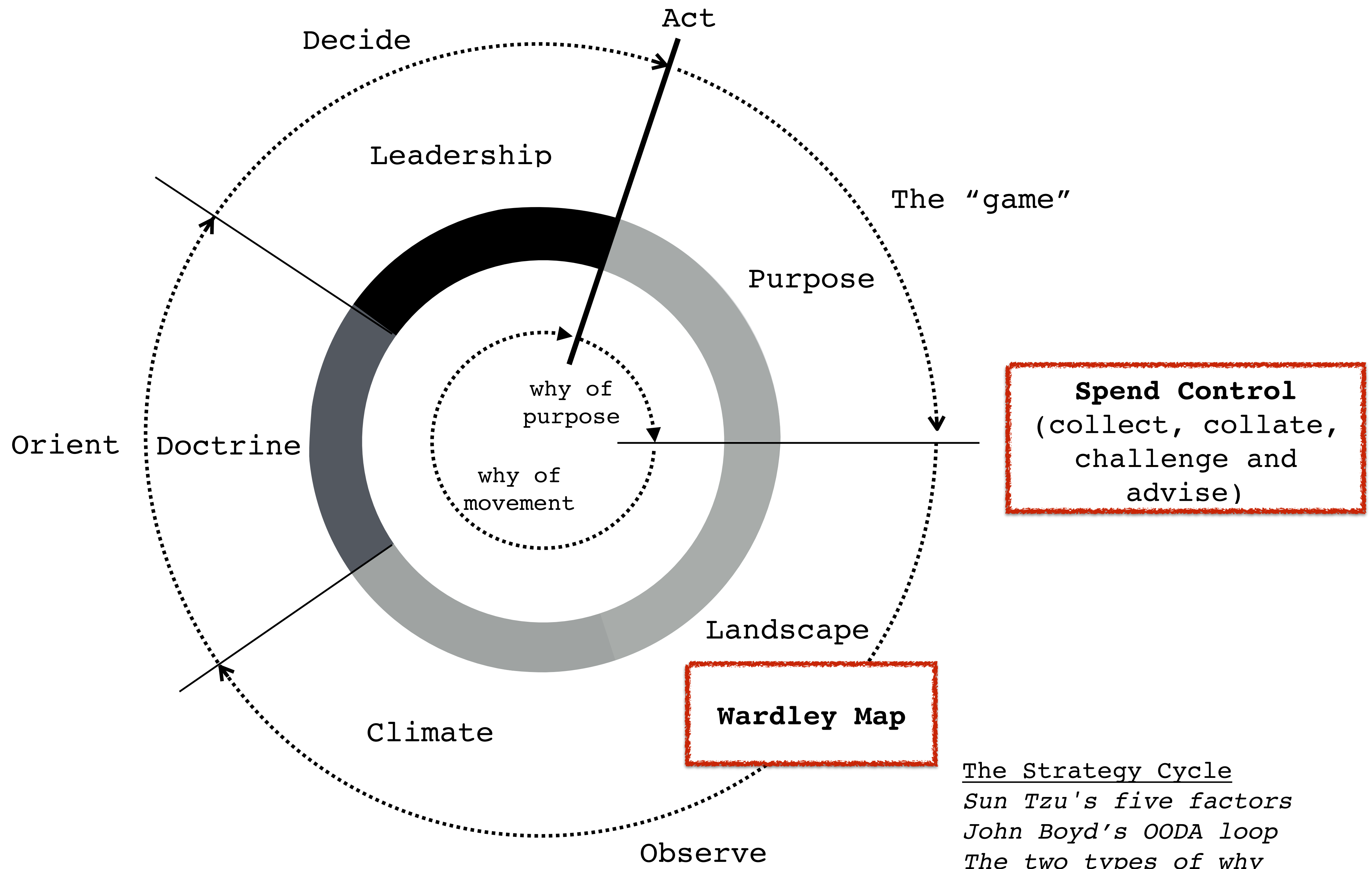
Spend
Control

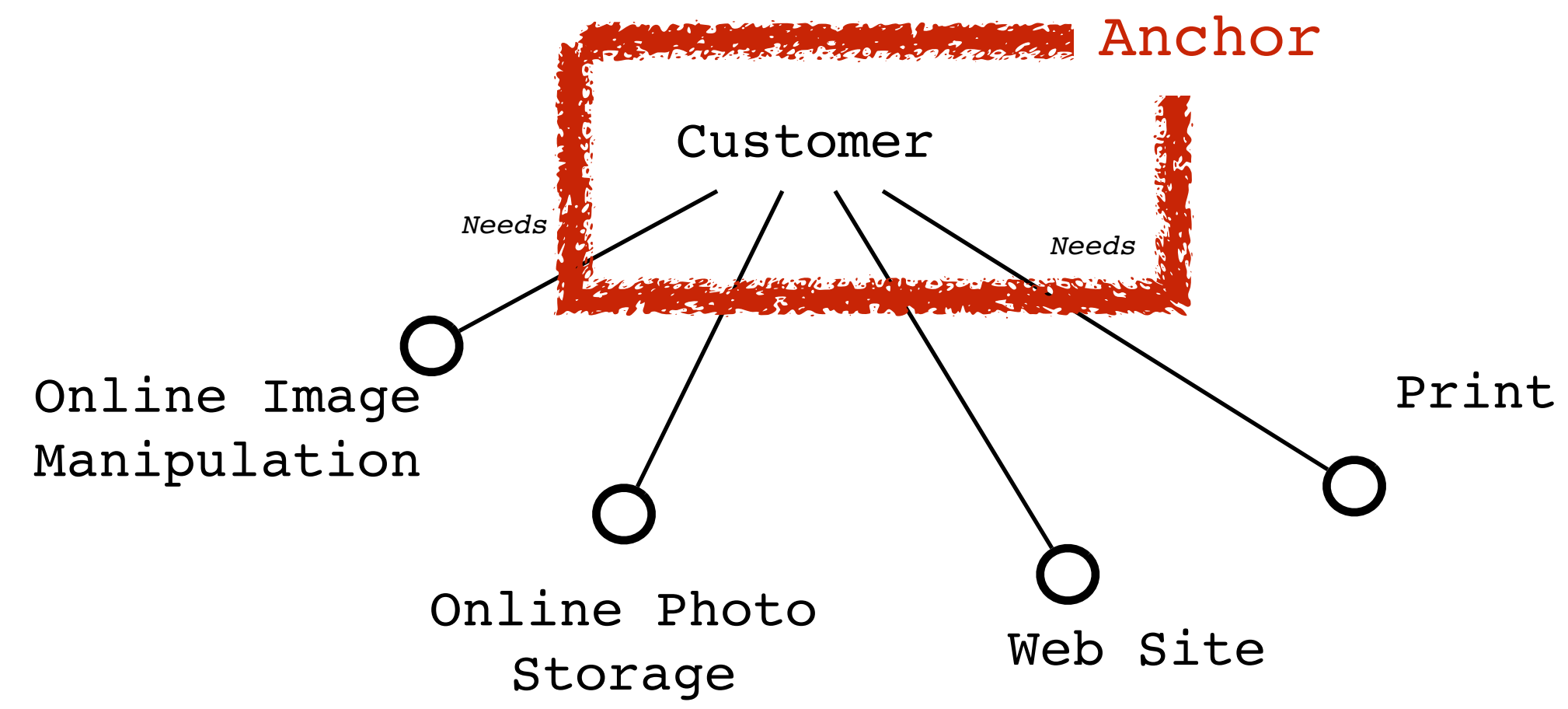
+Police



Collect

Doctrine
Use a systematic
mechanism of
learning

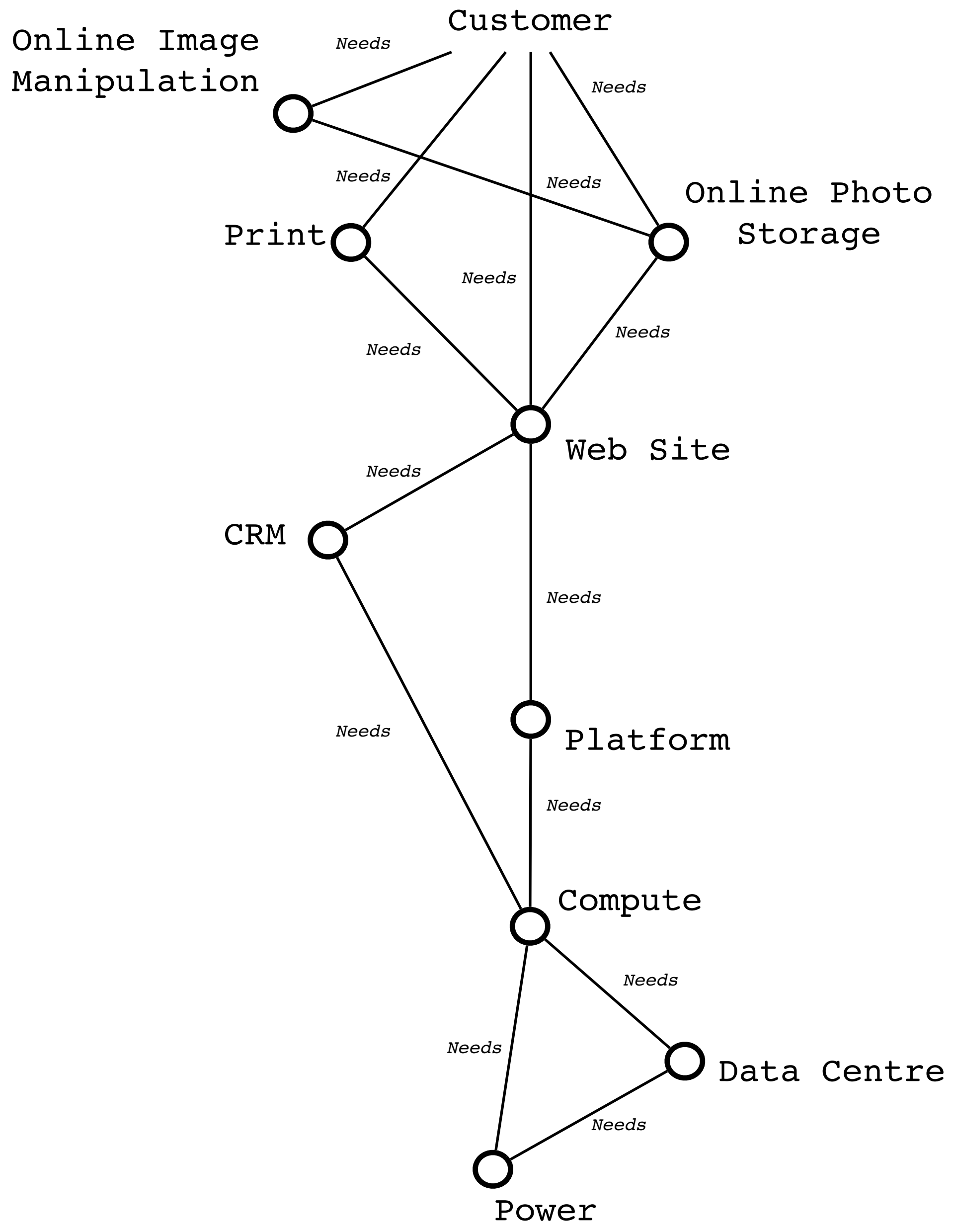


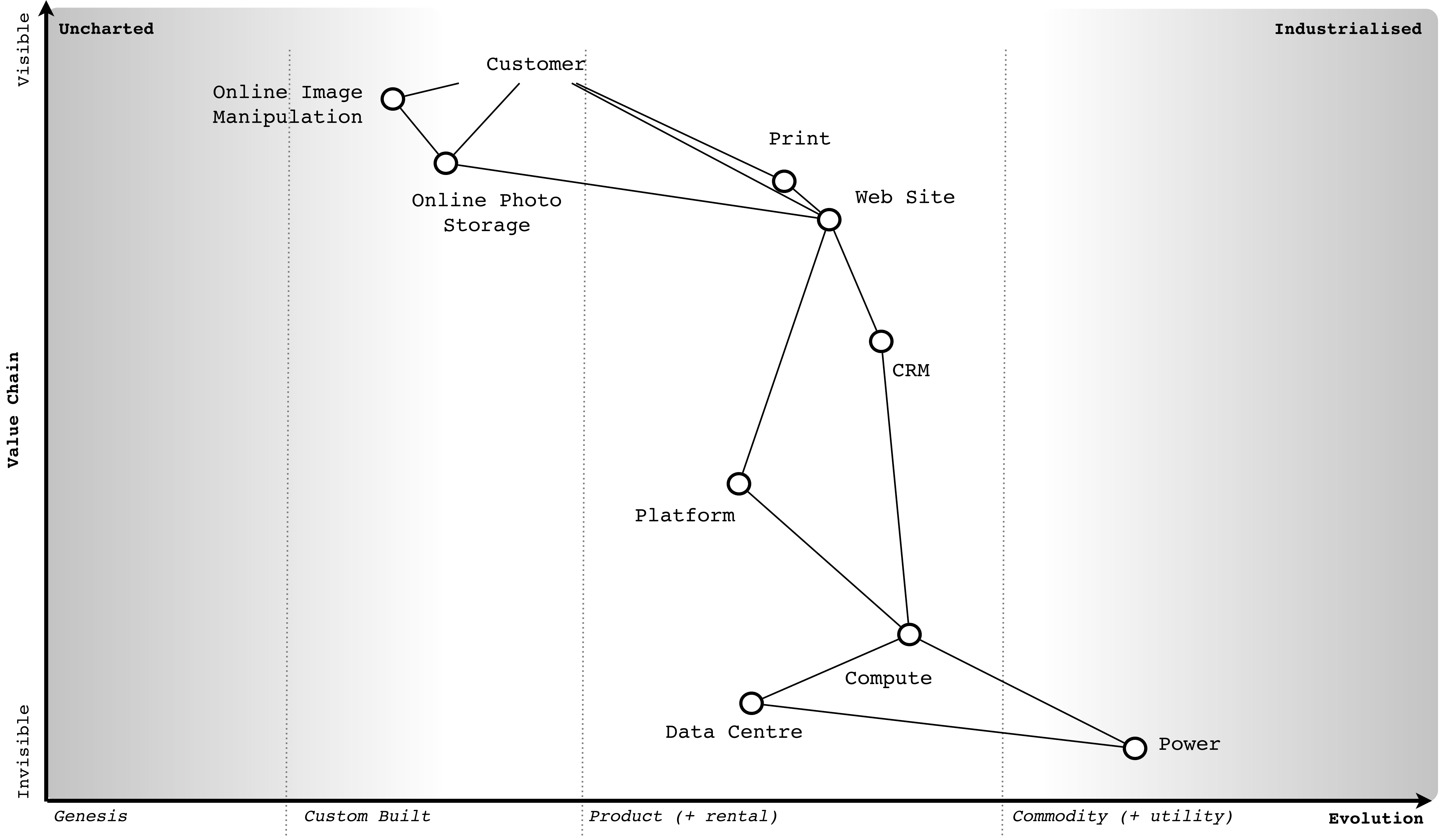


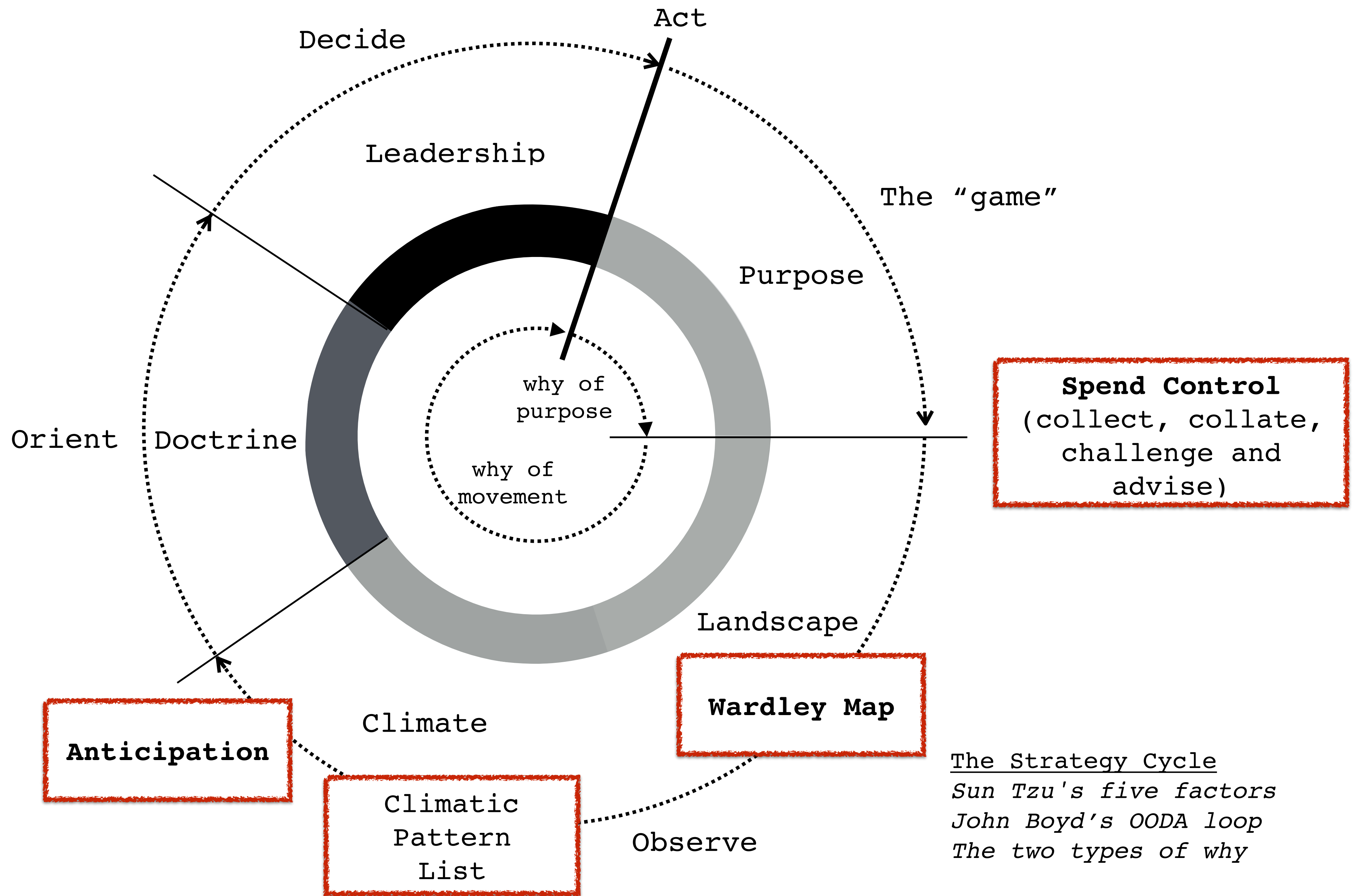
Visible

Value Chain

Invisible

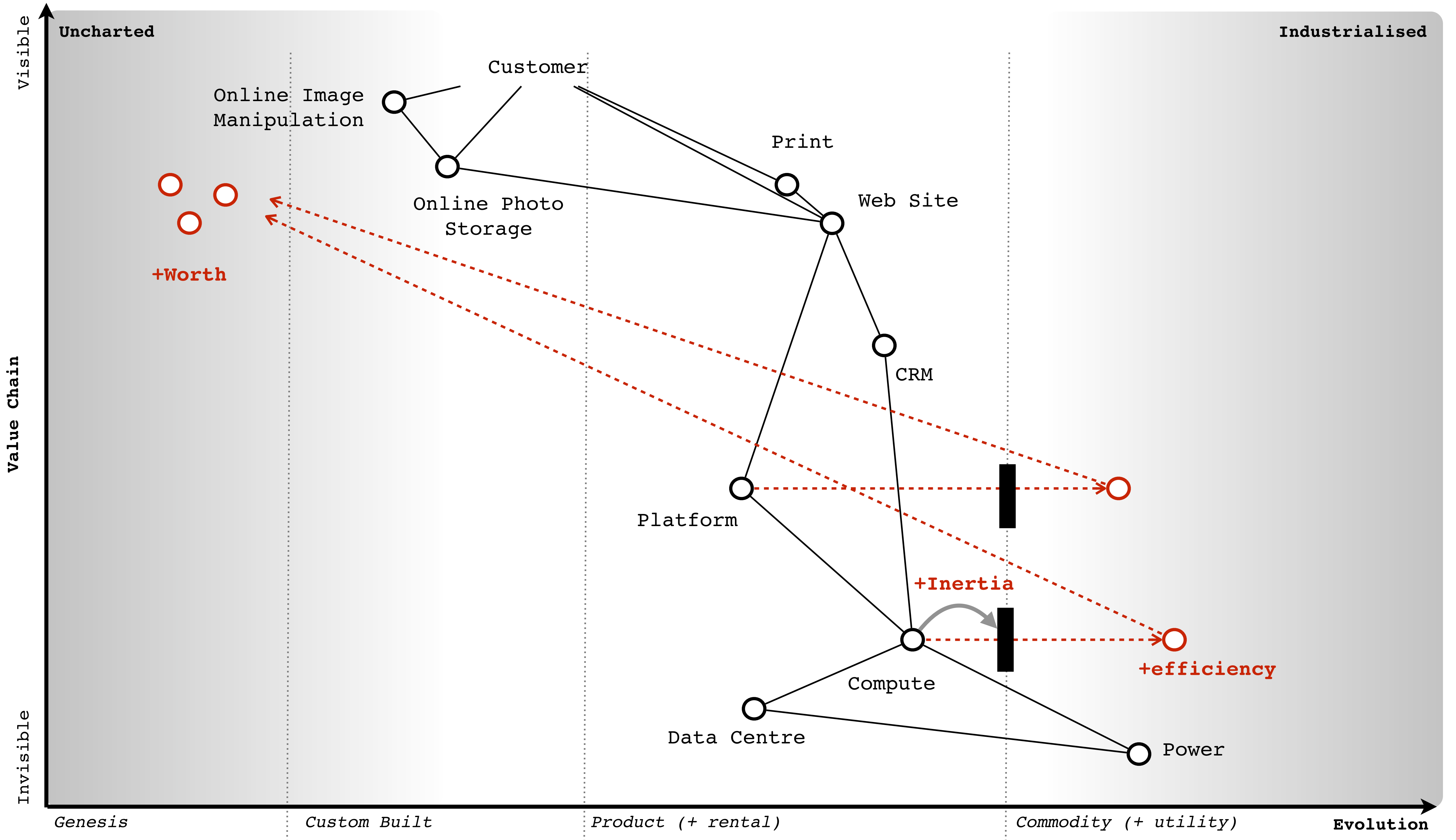


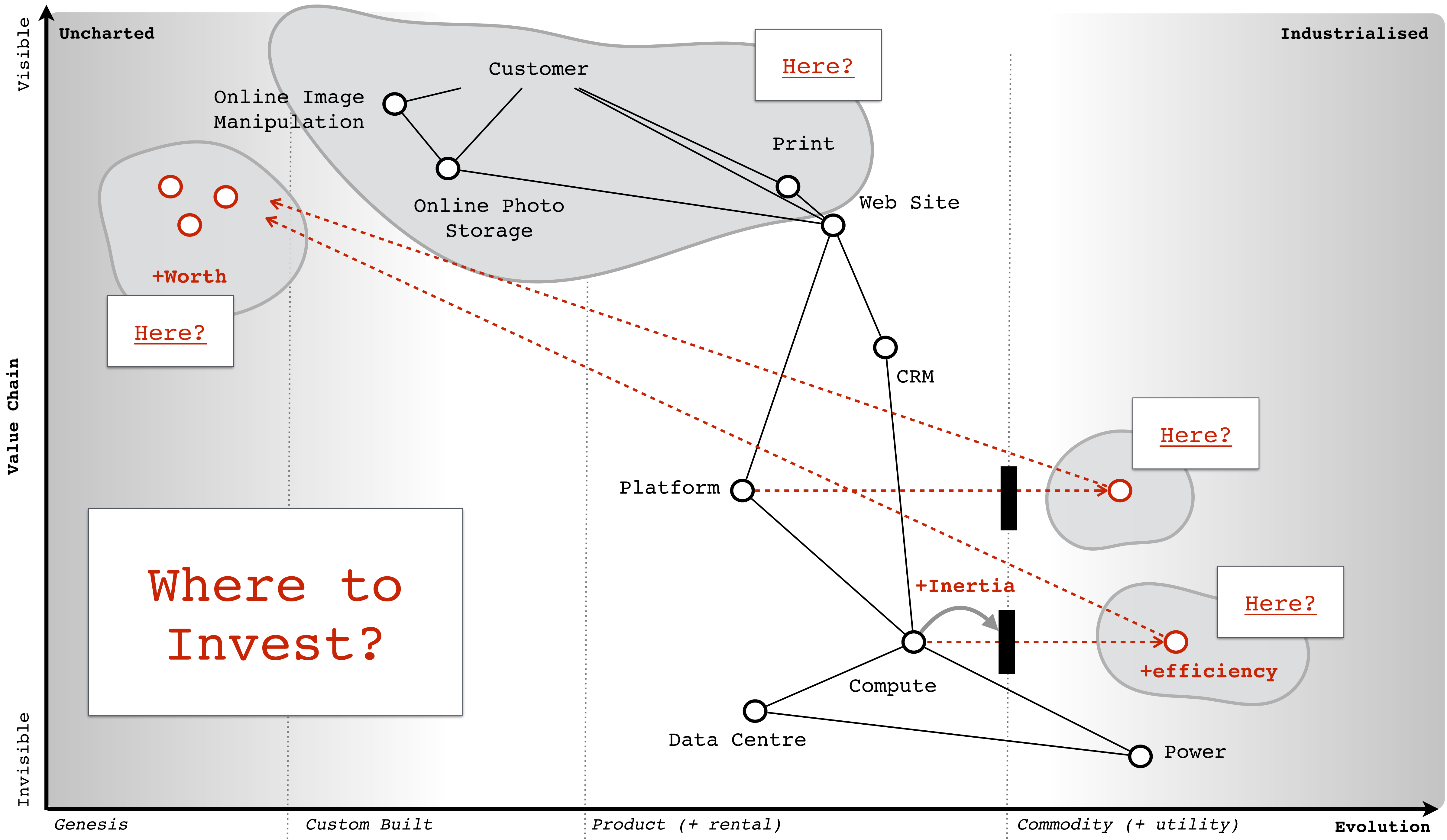


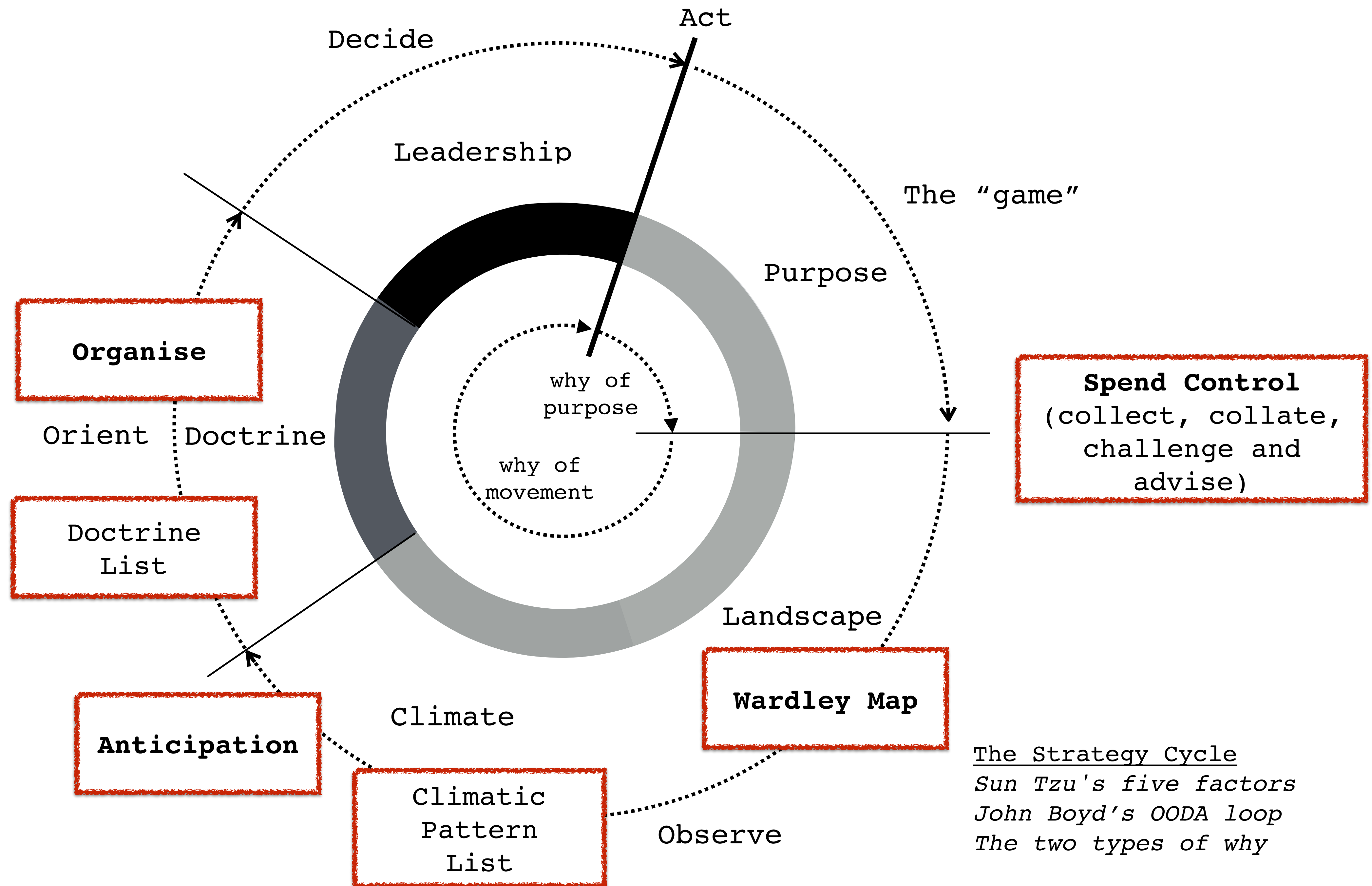


The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop
The two types of why

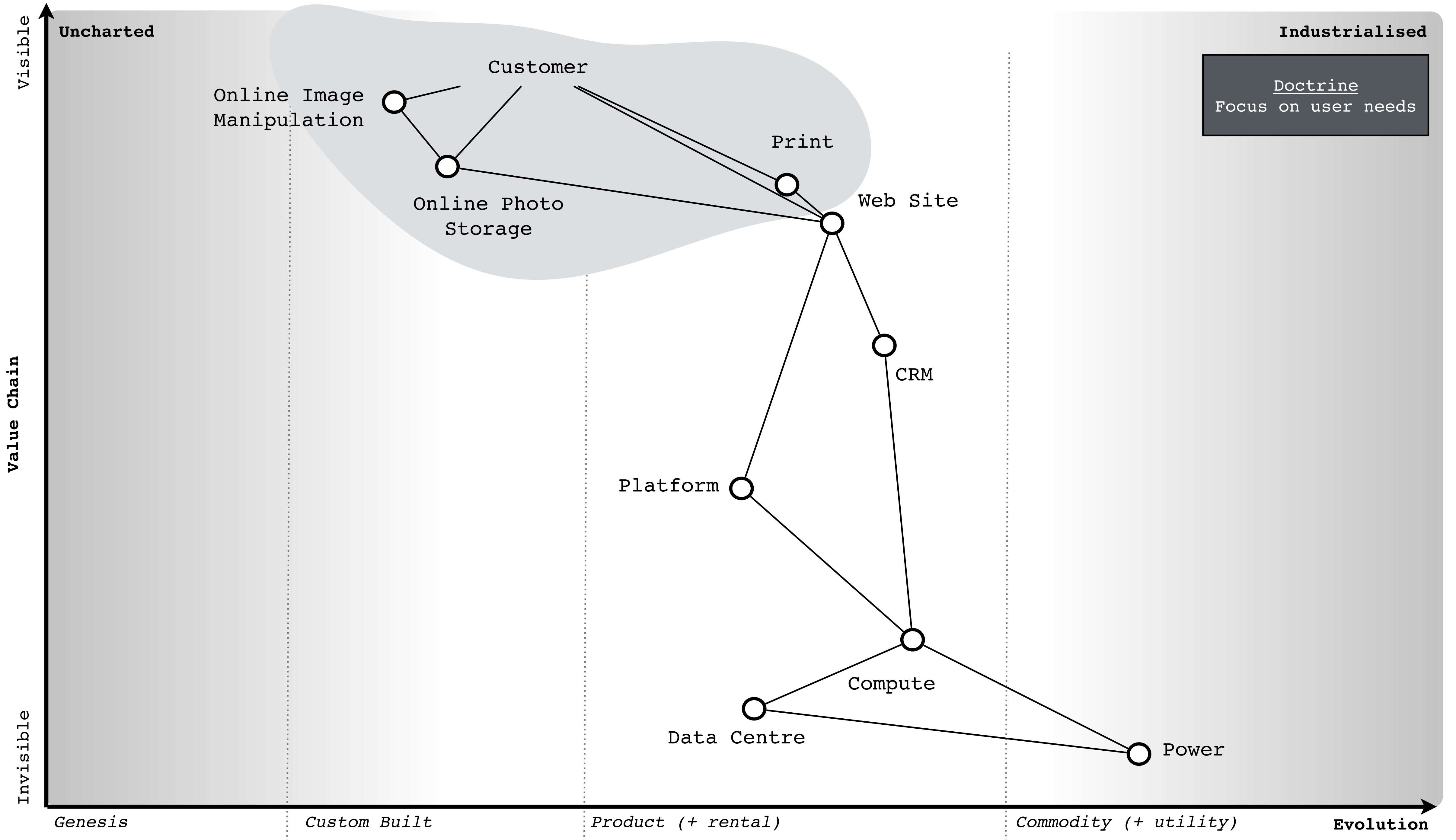
Components	Everything evolves through supply and demand competition	Rates of evolution can vary by ecosystem (e.g. consumer vs industrial)	Characteristics change as components evolve (Salaman & Storey)	No choice over evolution (Red Queen)
	No single method fits all (e.g. in development or purchasing)	Components can co-evolve (e.g. practice with activity)	Evolution consists of multiple waves of diffusion with many chasms.	Commoditisation <> Centralisation
Financial	Higher order systems create new sources of value	Efficiency does not mean a reduced spend (Jevon's Paradox)	Capital flows to new areas of value	Creative Destruction (Joseph Schumpeter)
	Future value is inversely proportional to the certainty we have over it.	Evolution to higher order systems results in increasing local order and energy consumption		
Speed	Efficiency enables innovation	Evolution of communication mechanisms can increase the speed of evolution overall and the diffusion of a single example of change	Increased stability of lower order systems increases agility & speed of re-combination	Change is not always linear (discontinuous & exponential change exists)
	Shifts from product to utility tend to demonstrate a punctuated equilibrium			
Inertia	Success breeds inertia	Inertia can kill an organisation	Inertia increases the more successful the past model is	
Competitors	Competitors actions will change the game	Most competitors have poor situational awareness		
Prediction	Not everything is random (p[what] vs p[when])	Economy has cycles (peace, war and wonder)	Two different forms of disruption (predictable vs non-predictable)	A "war" (point of industrialisation) causes organisations to evolve
	You cannot measure evolution over time or adoption, you need to embrace uncertainty.	The less evolved something is then the more uncertain it becomes		

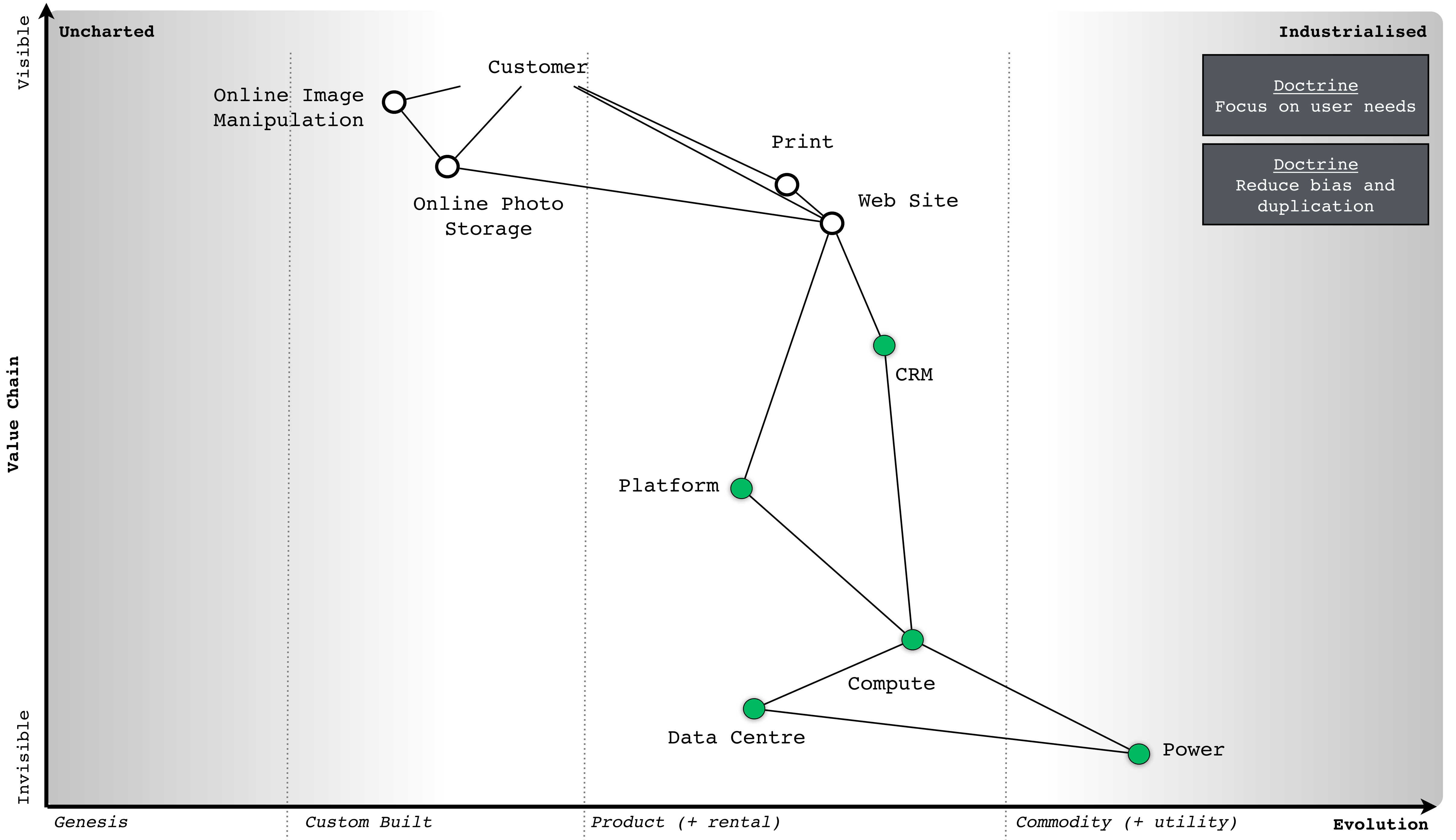


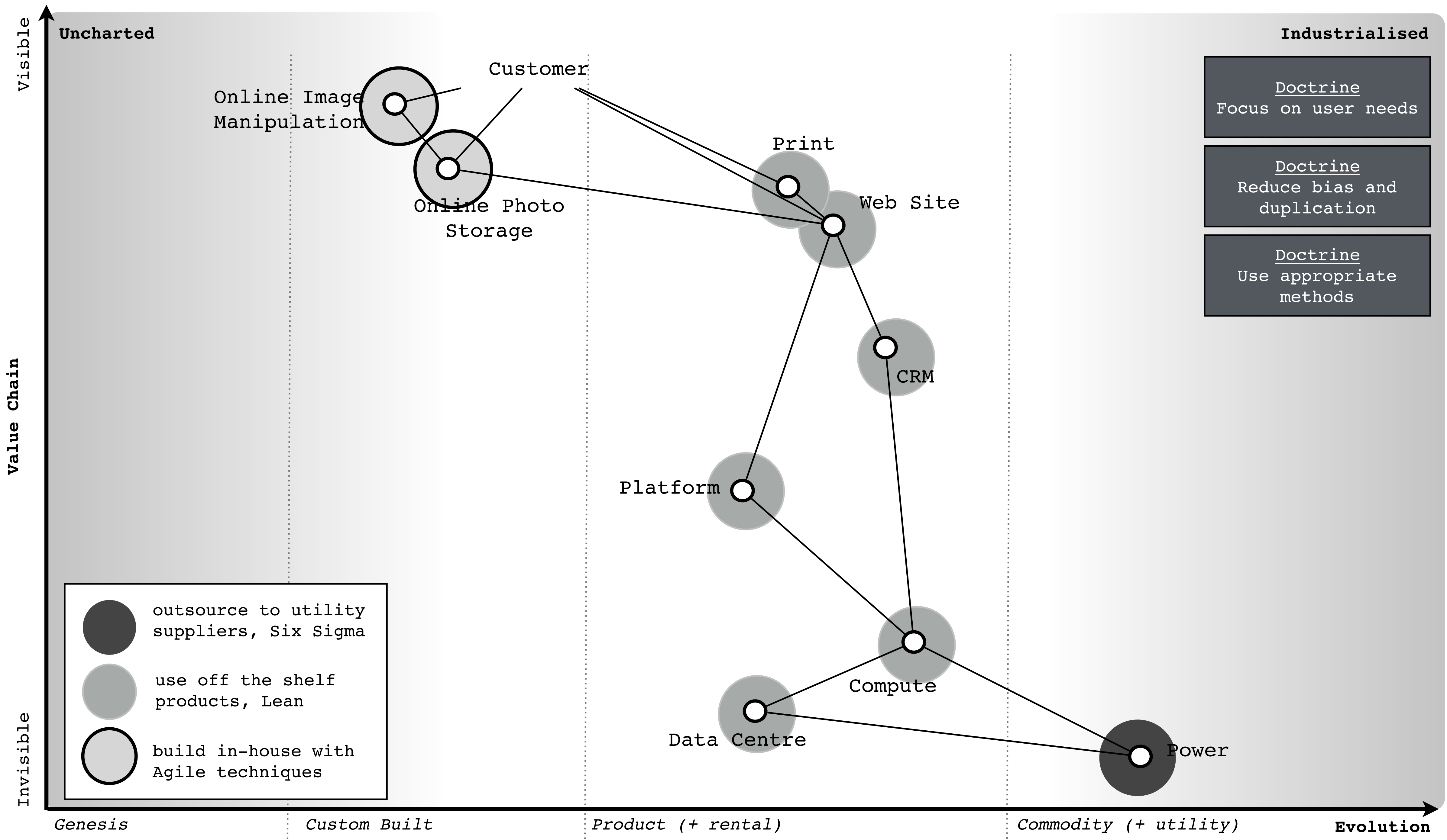


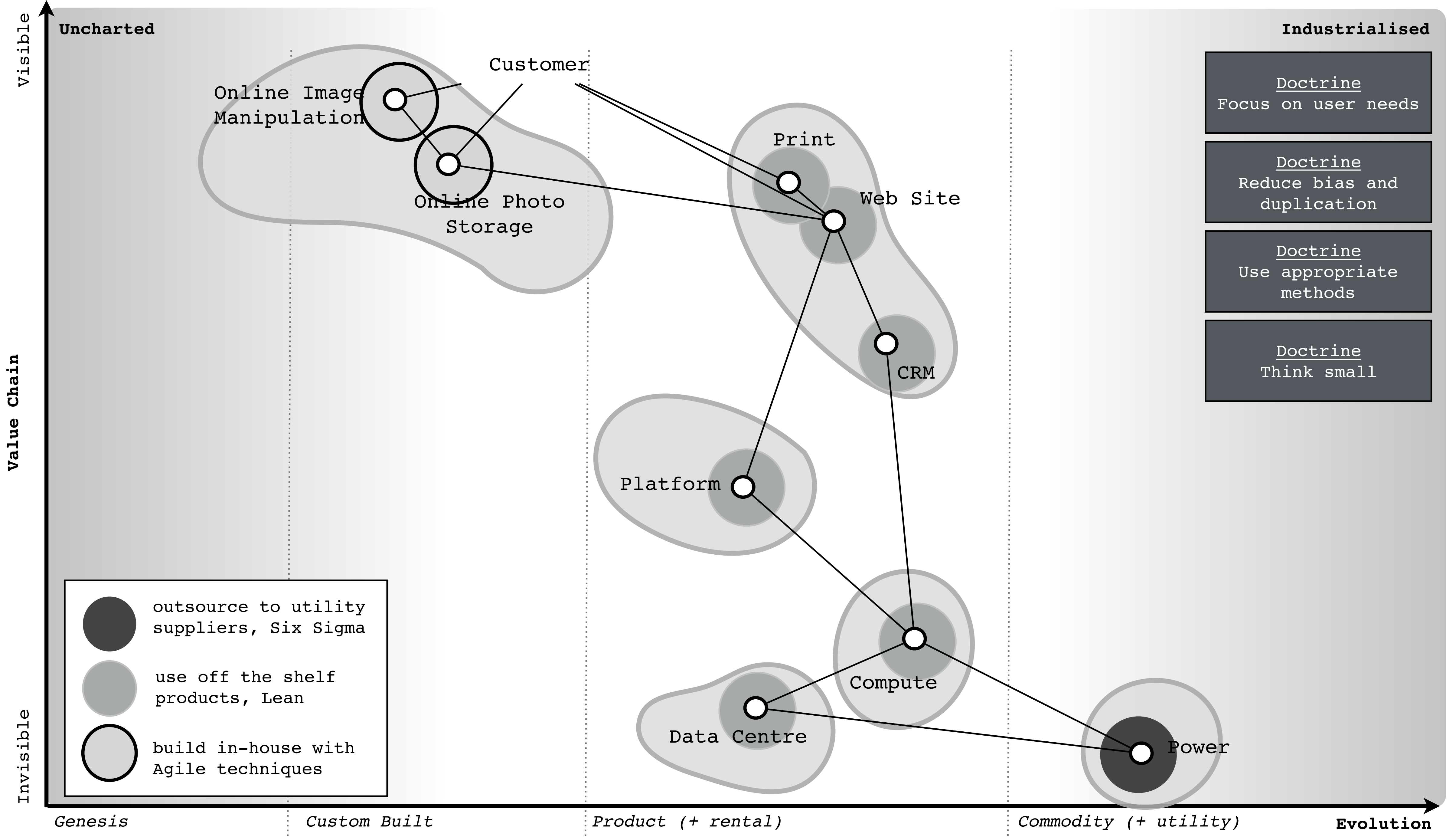


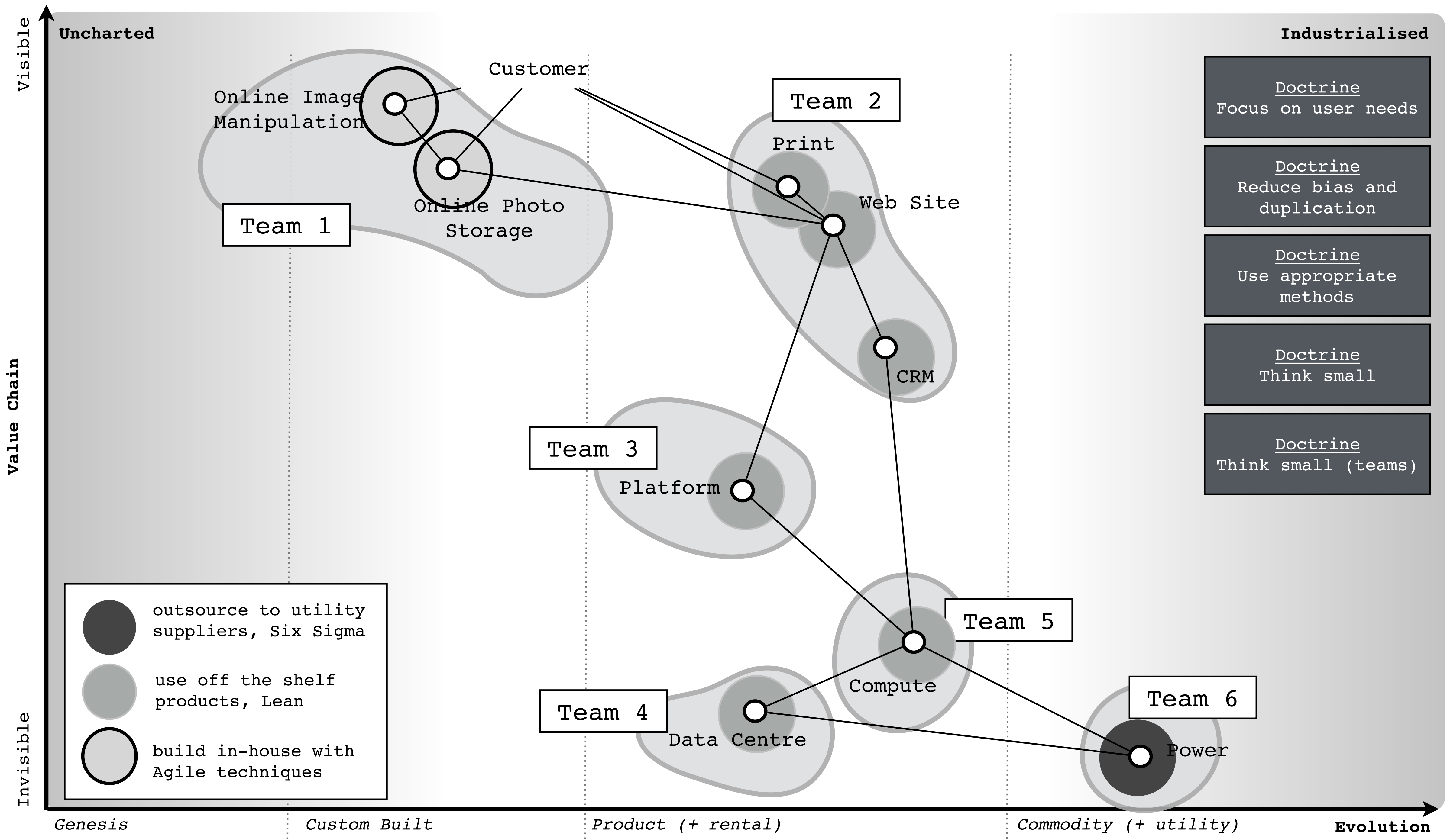
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Development	Know your users <i>(e.g. customers, shareholders, regulators, staff)</i>	Focus on user needs	Think fast, inexpensive, restrained and elegant <i>(FIRE, formerly FIST)</i>	Remove bias and duplication
	Use appropriate methods <i>(e.g. agile vs lean vs six sigma)</i>	Focus on the outcome not a contract <i>(e.g. worth based development)</i>	Be pragmatic <i>(it doesn't matter if the cat is black or white as long as it catches mice)</i>	Use standards where appropriate
	Use appropriate tools <i>(e.g. mapping, financial models)</i>			
Operation	Manage inertia <i>(e.g. existing practice, political capital, previous investment)</i>	Optimise flow <i>(remove bottlenecks)</i>	Think small <i>(as in know the details)</i>	Effectiveness over efficiency
	Do better with less <i>(continual improvement)</i>	Set exceptional standards <i>(great is just not good enough)</i>	Manage failure	
Structure	Provide purpose, mastery & autonomy	Think small <i>(as in teams)</i>	Distribute power and decision making	Think aptitude and attitude
	Design for constant evolution	There is no one culture <i>(e.g. pioneers, settlers and town planners)</i>	Seek the best	
Learning	Use a systematic mechanism of learning <i>(a bias towards data)</i>	A bias towards action <i>(learn by playing the game)</i>	A bias towards the new <i>(be curious, take appropriate risks)</i>	Listen to your ecosystems <i>(acts as future sensing engines)</i>
Leading	Be the owner <i>(take responsibility)</i>	Move fast <i>(an imperfect plan executed today is better than a perfect plan executed tomorrow)</i>	Think big <i>(inspire others, provide direction)</i>	Strategy is iterative not linear <i>(fast reactive cycles)</i>
	Strategy is complex <i>(there will be uncertainty)</i>	Commit to the direction, be adaptive along the path <i>(crossing the river by feeling the stones)</i>	There is no core <i>(everything is transient)</i>	Be humble <i>(listen, be selfless, have fortitude)</i>
	Exploit the landscape			

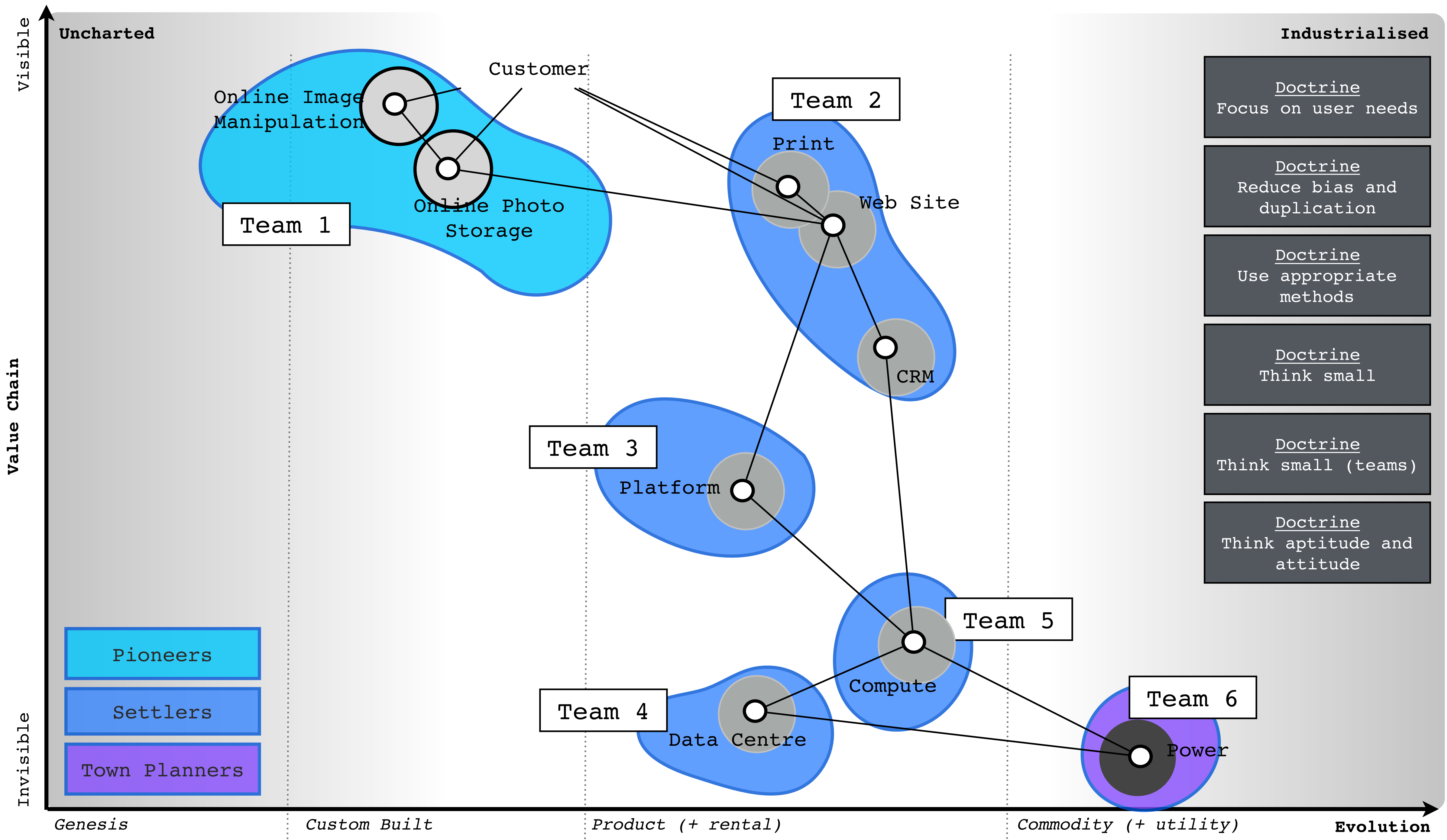






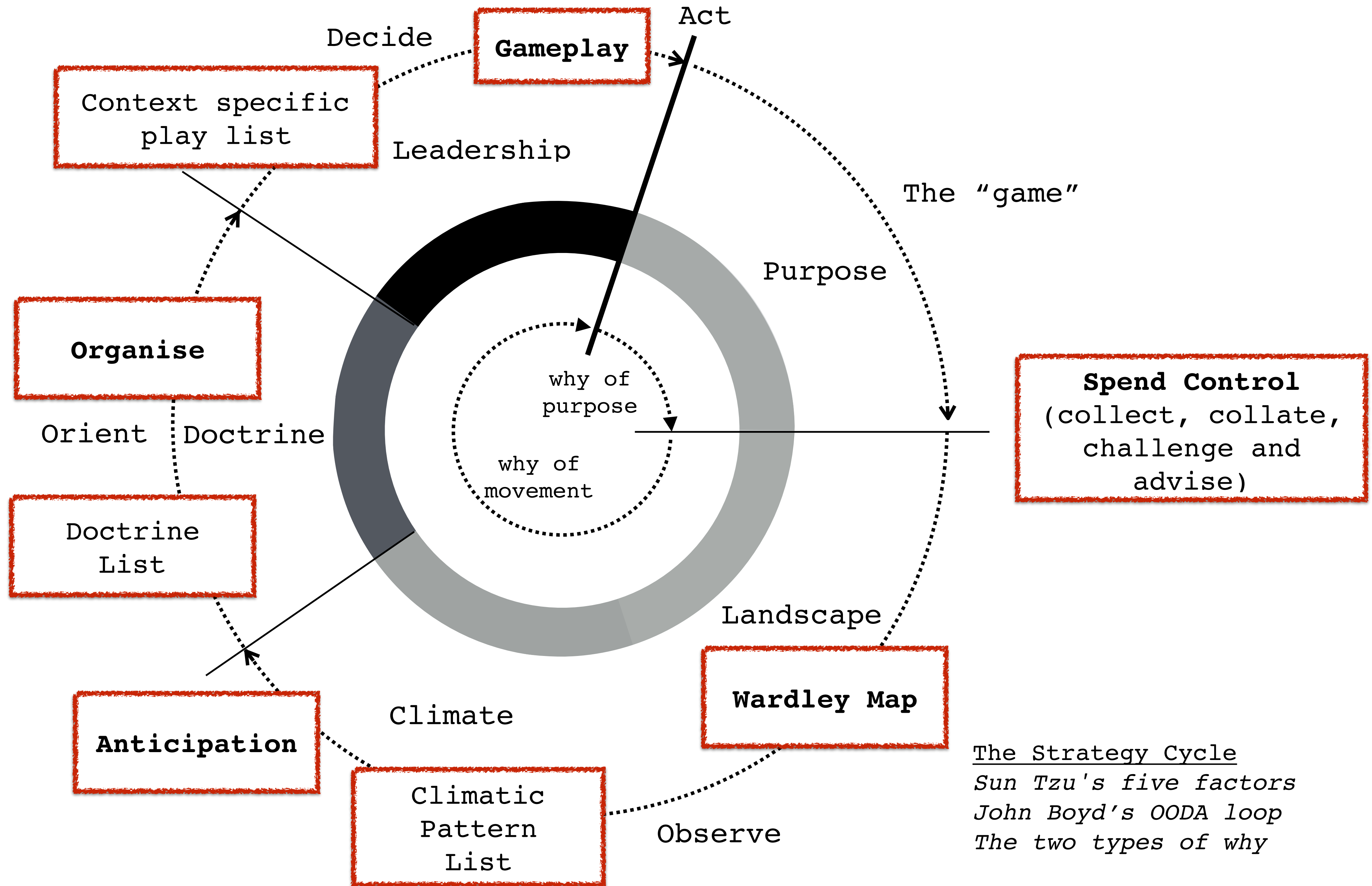






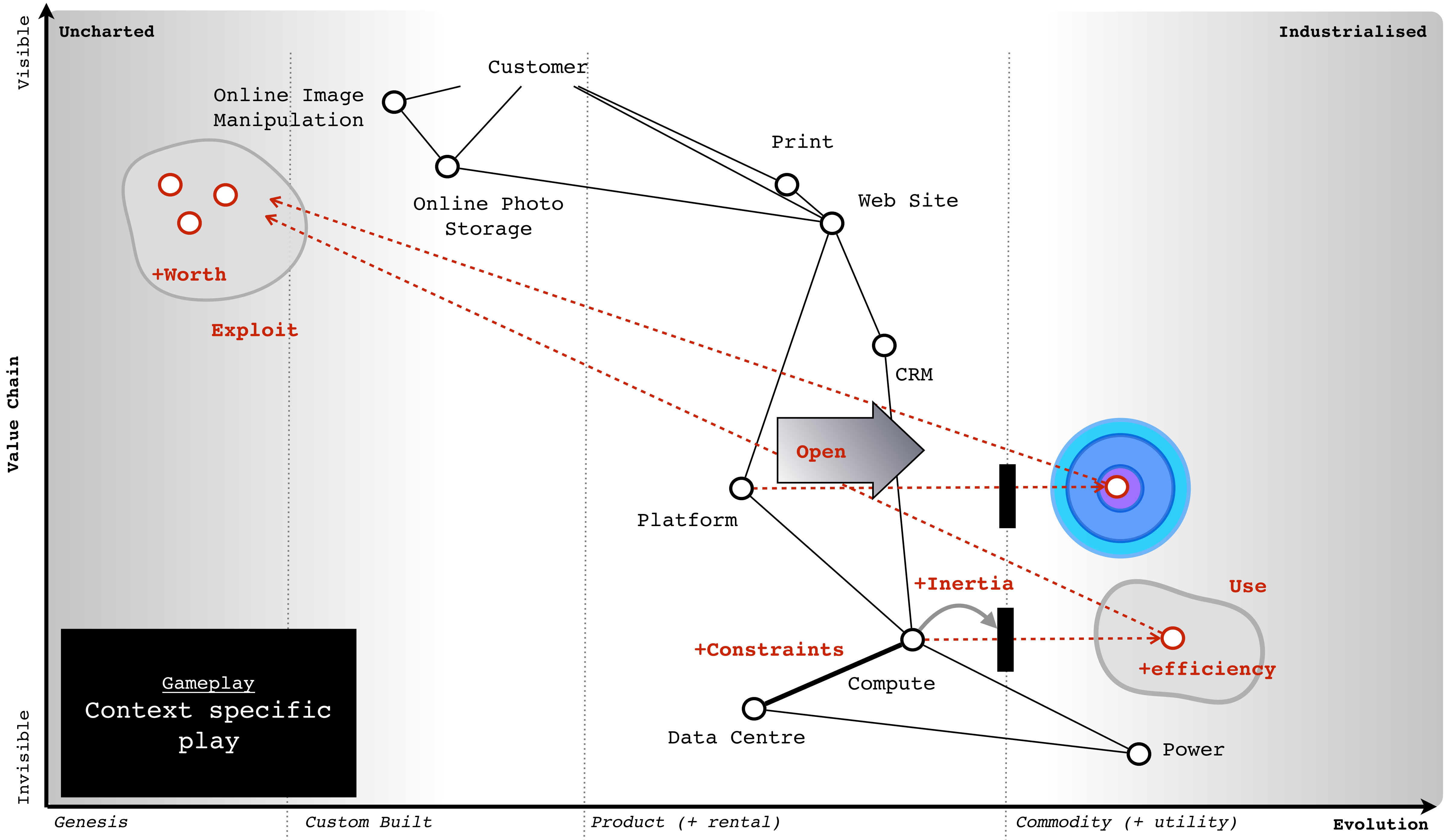
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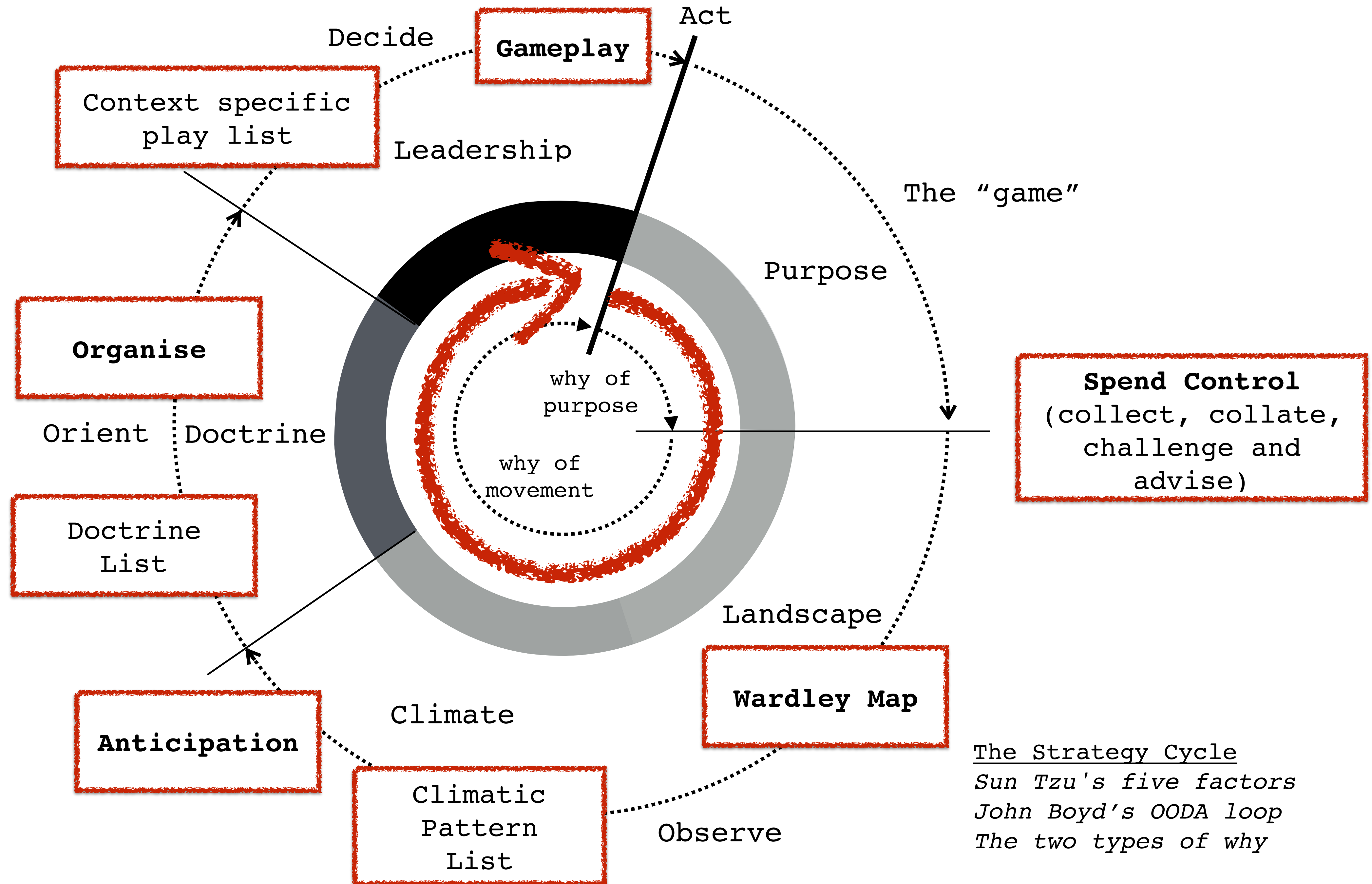
Phase I
 Phase II
 Phase III
 Phase IV



The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop
The two types of why

<i>User Perception</i>	Education	Bundling	Creating artificial needs	Confusion of choice
	Brand and marketing	Fear, uncertainty and doubt	Artificial competition	Lobbying / counterplay
<i>Accelerators</i>	Market enablement	Open approaches	Exploiting network effects	Co-operation
	Industrial policy			
<i>De-accelerators</i>	Exploiting constraint	IPR	Creating constraints	
<i>Dealing with toxicity</i>	Pig in a poke	Disposal of liability	Sweat and dump	Refactoring
<i>Market</i>	Differentiation	Pricing policy	Buyer / supplier power	Harvesting
	Standards game	Last man standing	Signal distortion	Trading
<i>Defensive</i>	Threat acquisition	Raising barriers to entry	Procrastination	Defensive regulation
	Limitation of competition	Managing inertia		
<i>Attacking</i>	Directed investment	Experimentation	Centre of gravity	Undermining barriers to entry
	Fool's mate	Press release process	Playing both sides	
<i>Ecosystem</i>	Alliances	Co-creation	Sensing Engines (ILC)	Tower and moat
	Two factor markets	Co-opting and intercession	Embrace and extend	Channel conflicts & disintermediation
<i>Competitor</i>	Ambush	Fragmentation play	Reinforcing competitor inertia	Sapping
	Misdirection	Restriction of movement	Talent raid	
<i>Positional</i>	Land grab	First mover	Fast follower	Weak signal / horizon
<i>Poison</i>	Licensing play	Insertion	Designed to fail	





The Strategy Cycle
Sun Tzu's five factors
John Boyd's OODA loop
The two types of why

Getting Started
Competitor Analysis
Evolution
Flow
Weak Signals
Ecosystem
Type
Brexit

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Good
 Neutral / unknown
 Weak
 Warning

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Getting Started
Competitor Analysis

Evolution

Flow

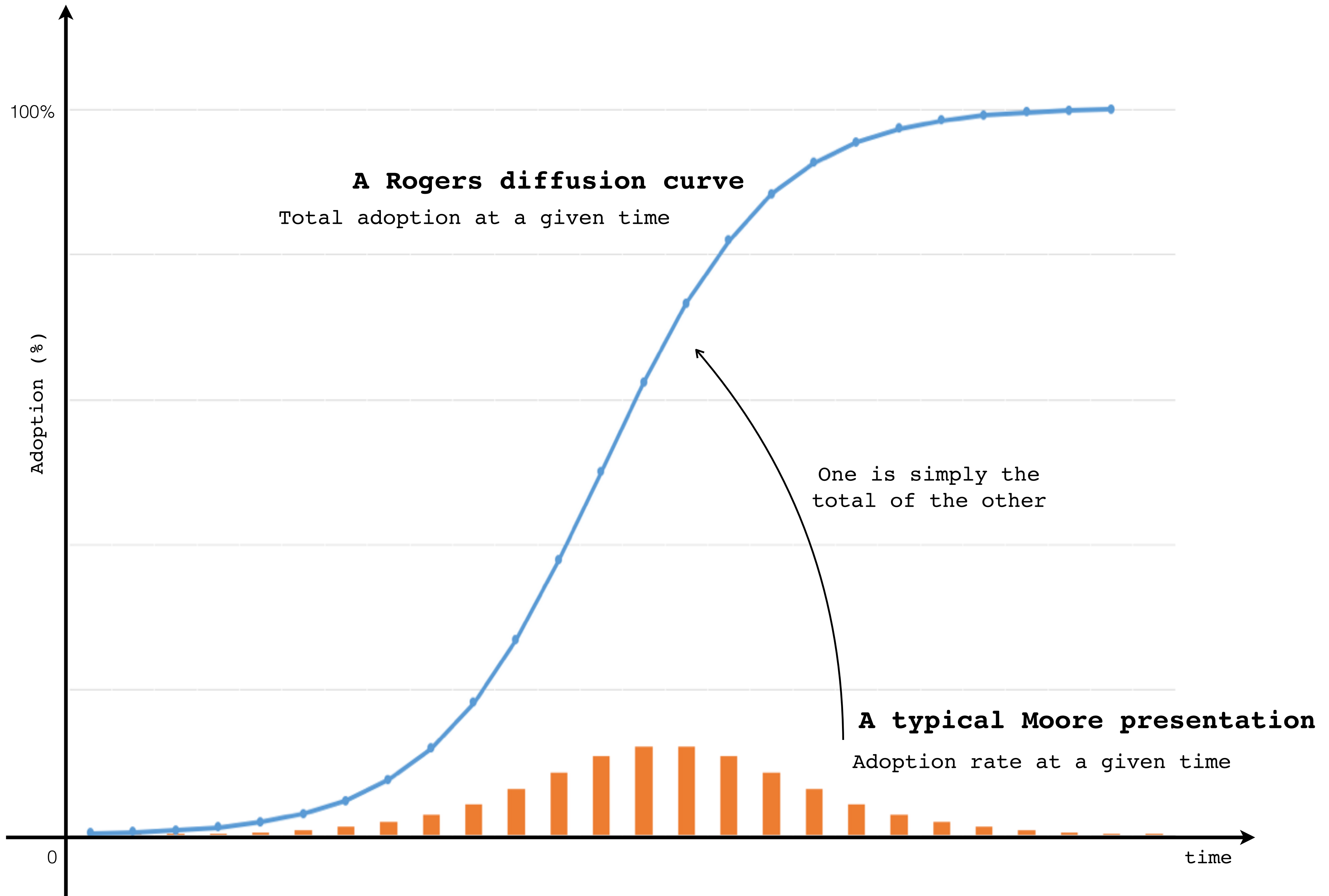
Weak Signals

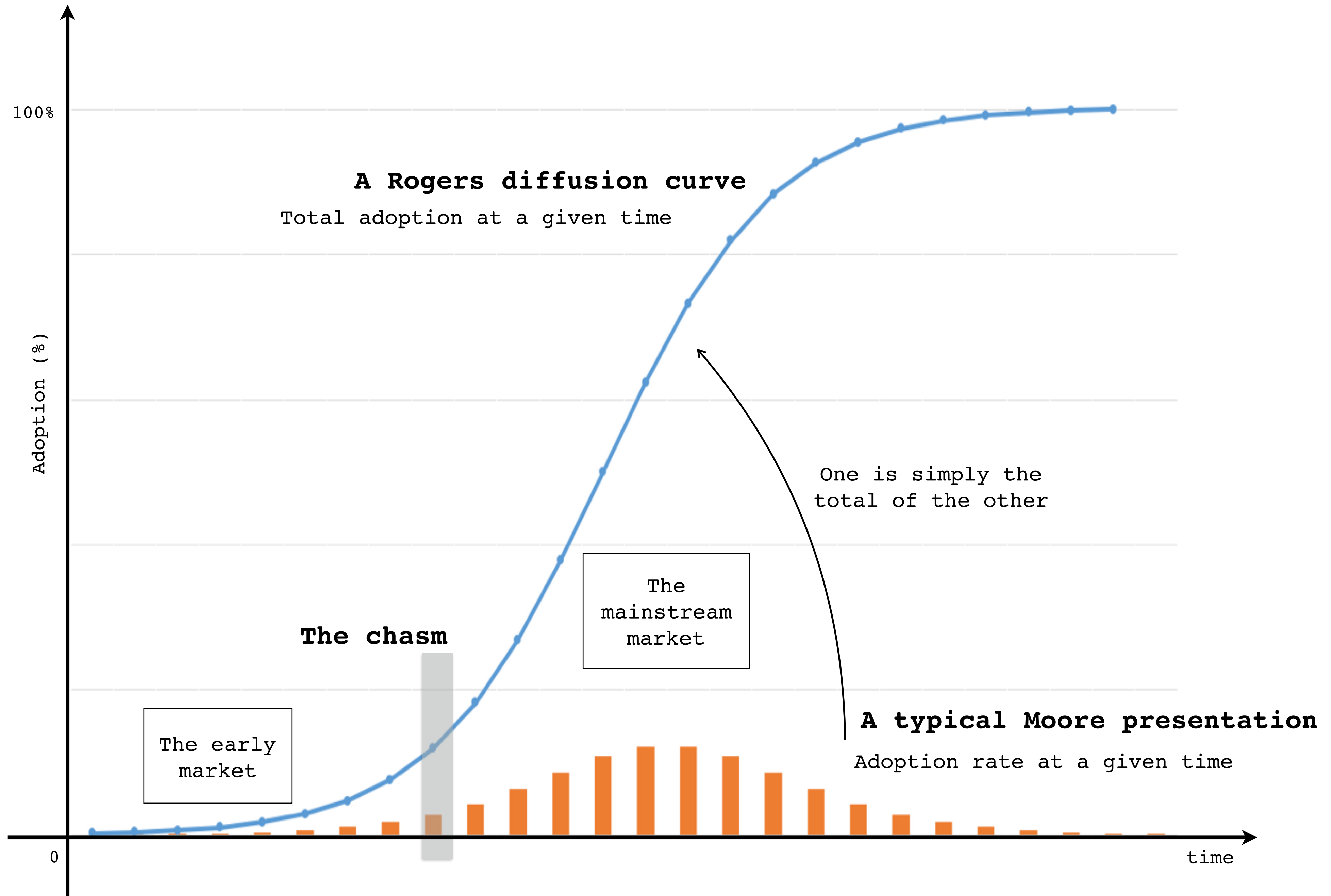
Ecosystem

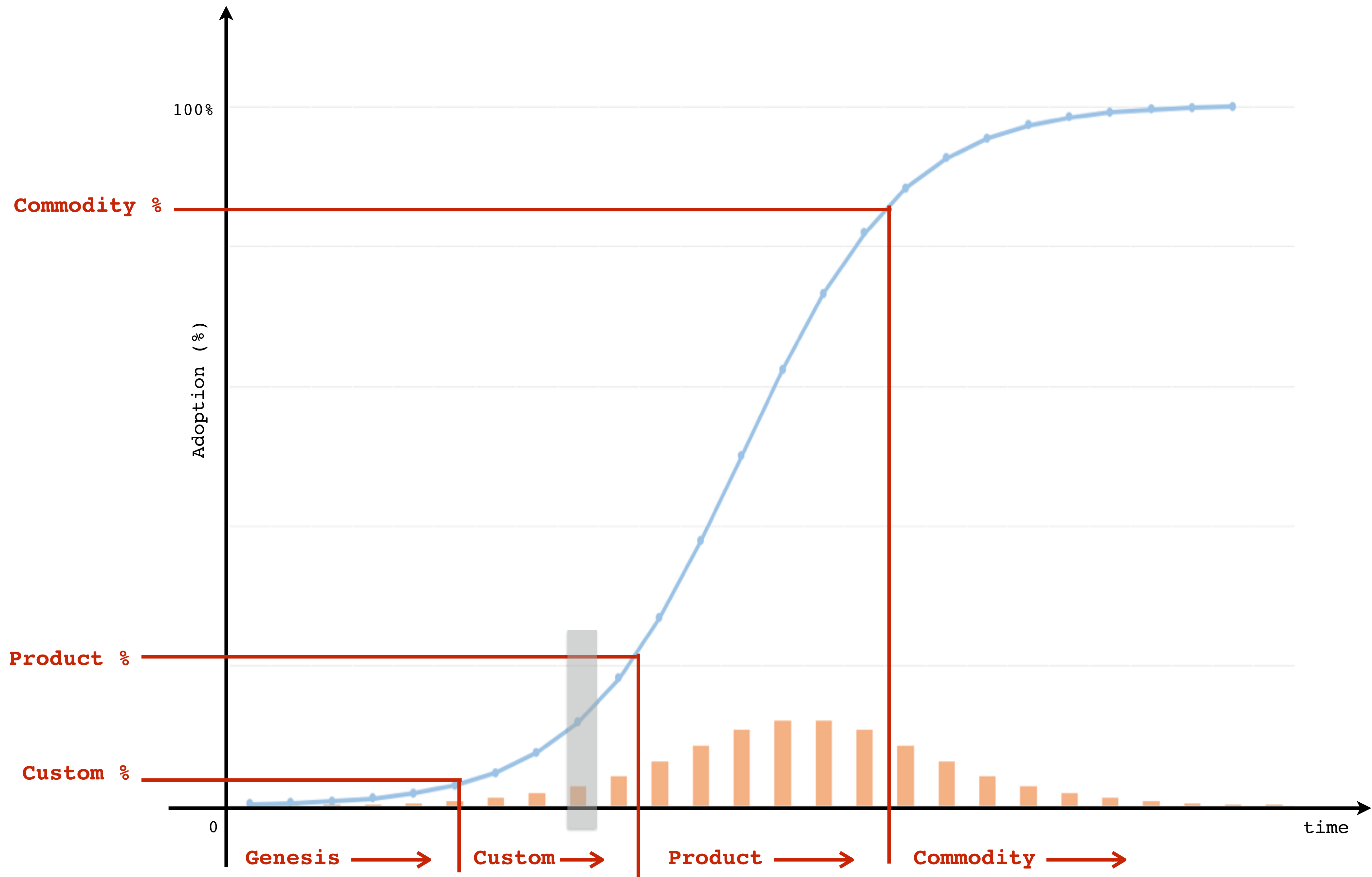
Type

Brexit

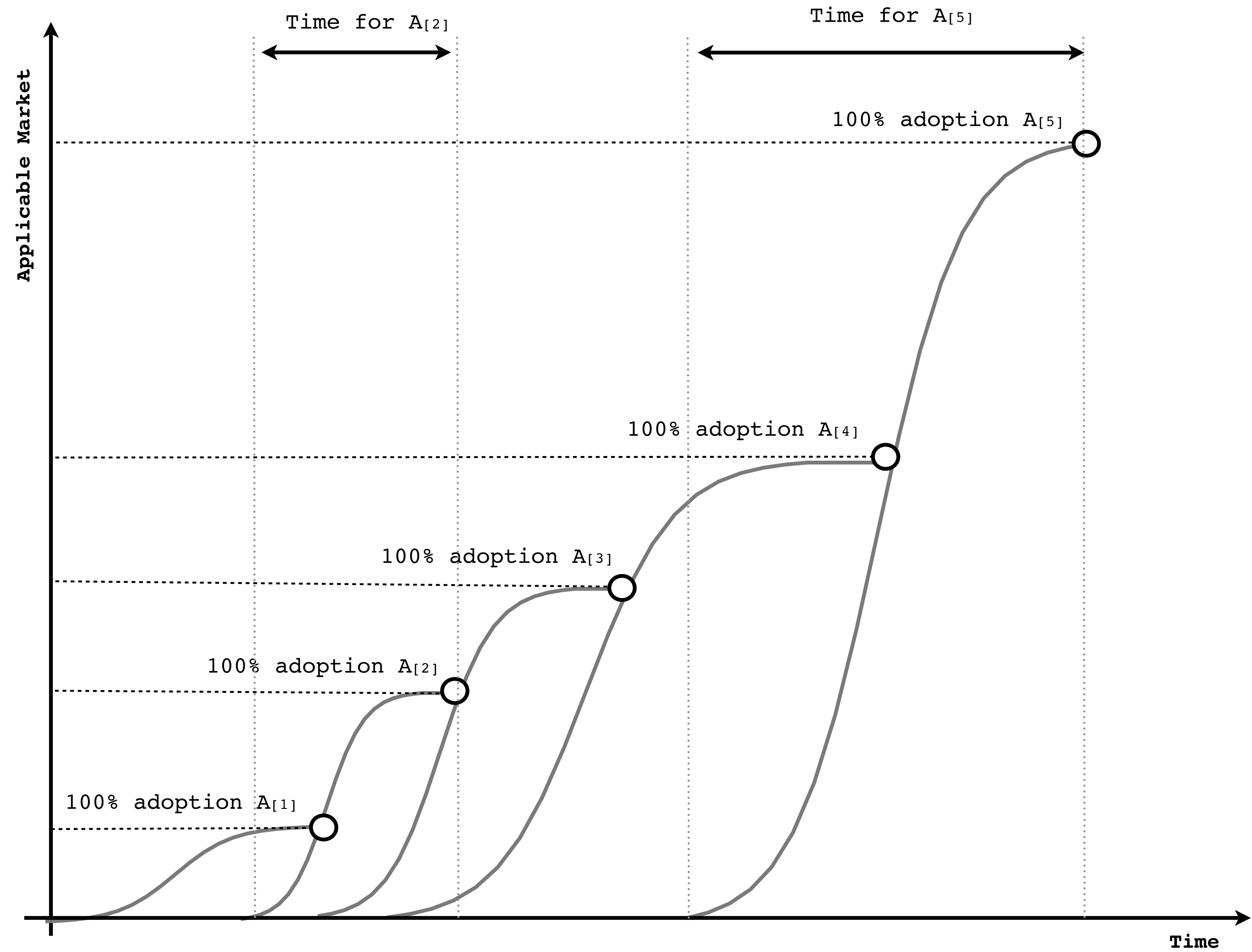
Evolution = Change = Movement











THE TELEPHONE

and How We Use It



BELL TELEPHONE SYSTEM

HOW TO TALK ON THE TELEPHONE

When using the telephone, hold the receiver close to your ear. The receiver is the end without the cord.



Talk directly into the mouthpiece.
This way.



Not this way.



Not this way.

Speak in a natural, clear voice.

You do not have to shout. Speak as though the other person were in the same room.



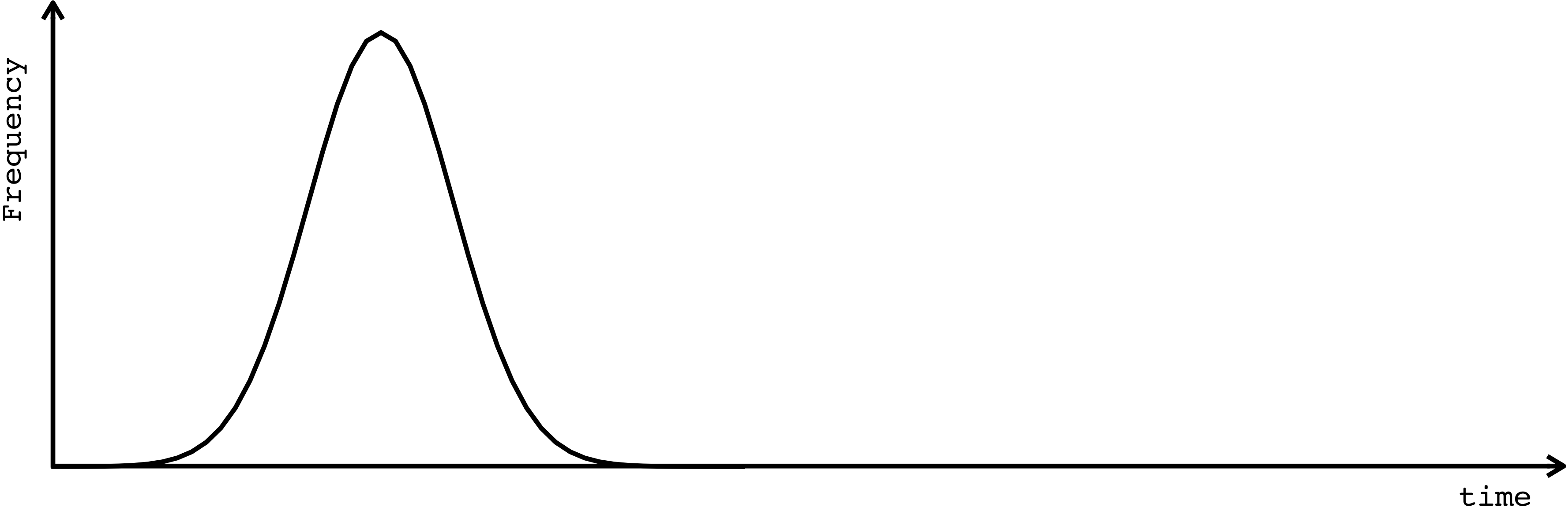
This Room Is Equipped With

Edison Electric Light.

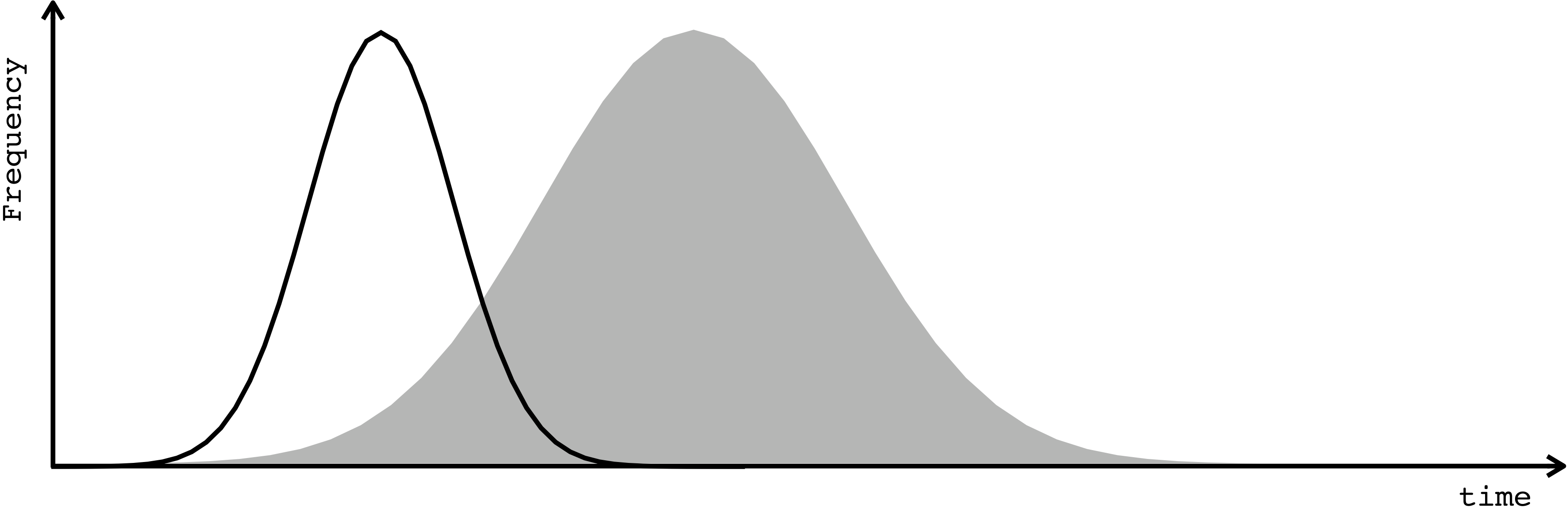
Do not attempt to light with
match. Simply turn key
on wall by the door.

—◆◆◆—
The use of Electricity for lighting is in no way harmful
to health, nor does it affect the soundness of sleep.

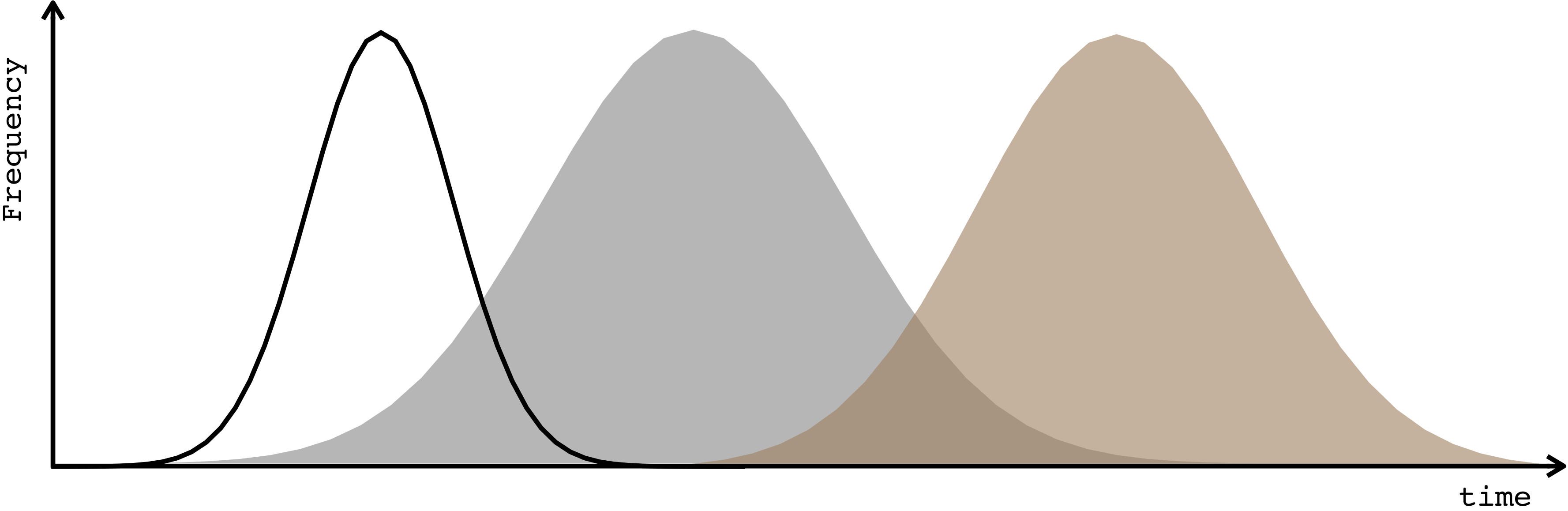
Stage	I
Publication Type	Wonder



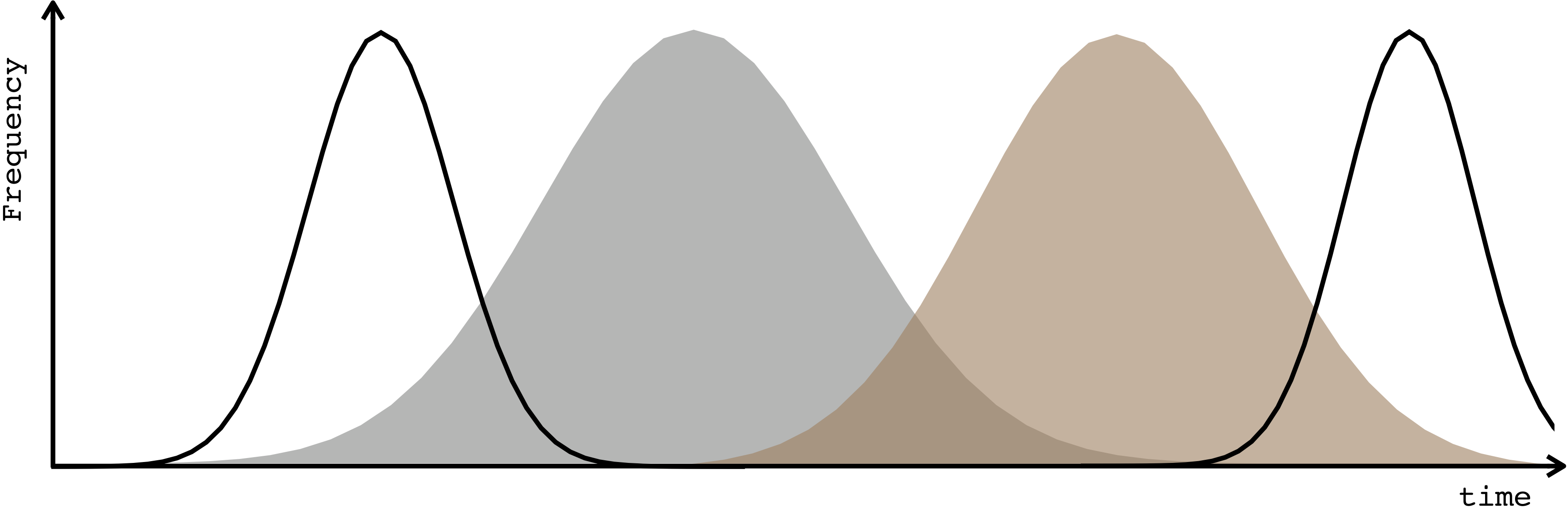
Stage	I	II (key)
Publication Type	Wonder	building, construction and awareness



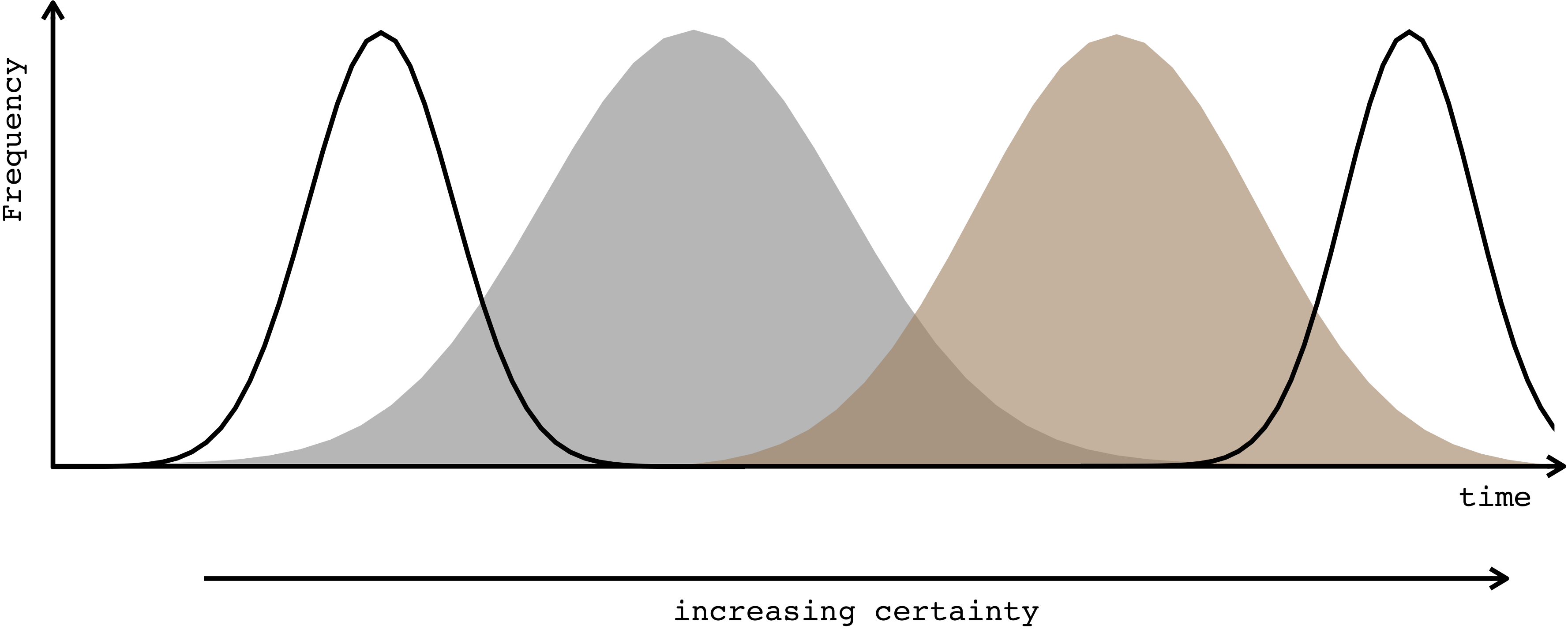
Stage	I	II (key)	III (key)
Publication Type	Wonder	building, construction and awareness	operation, maintenance and feature differences



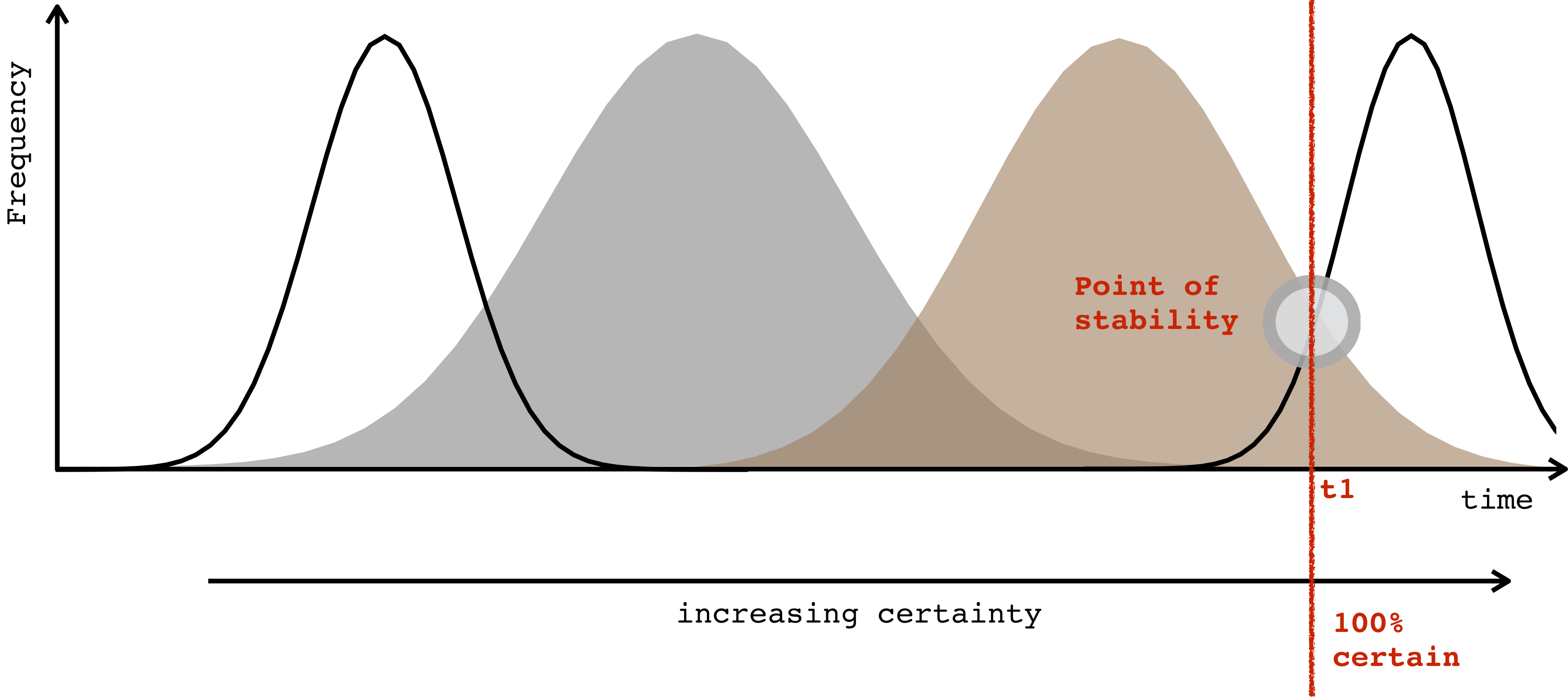
Stage	I	II (key)	III (key)	IV
Publication Type	Wonder	building, construction and awareness	operation, maintenance and feature differences	use

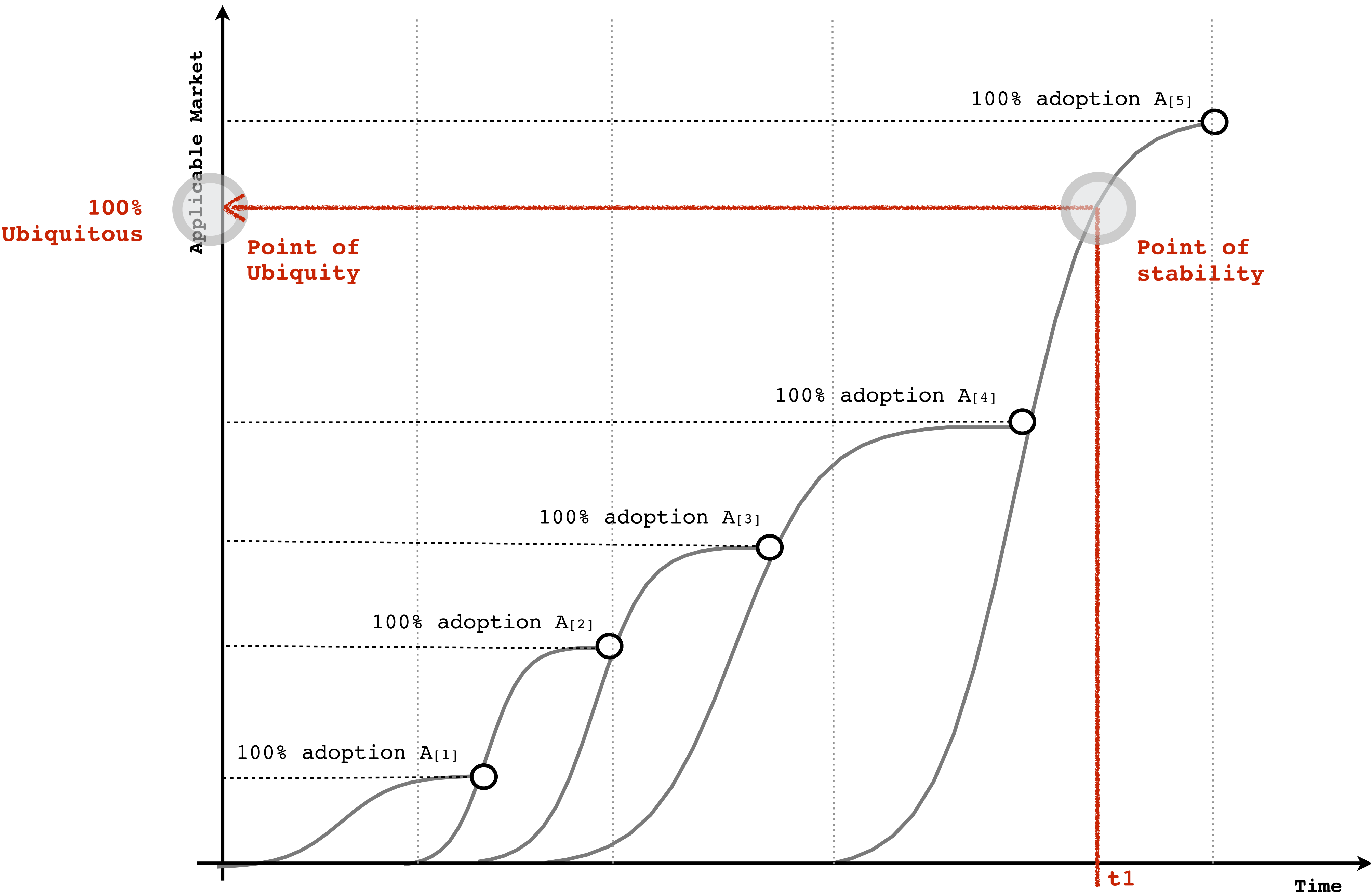


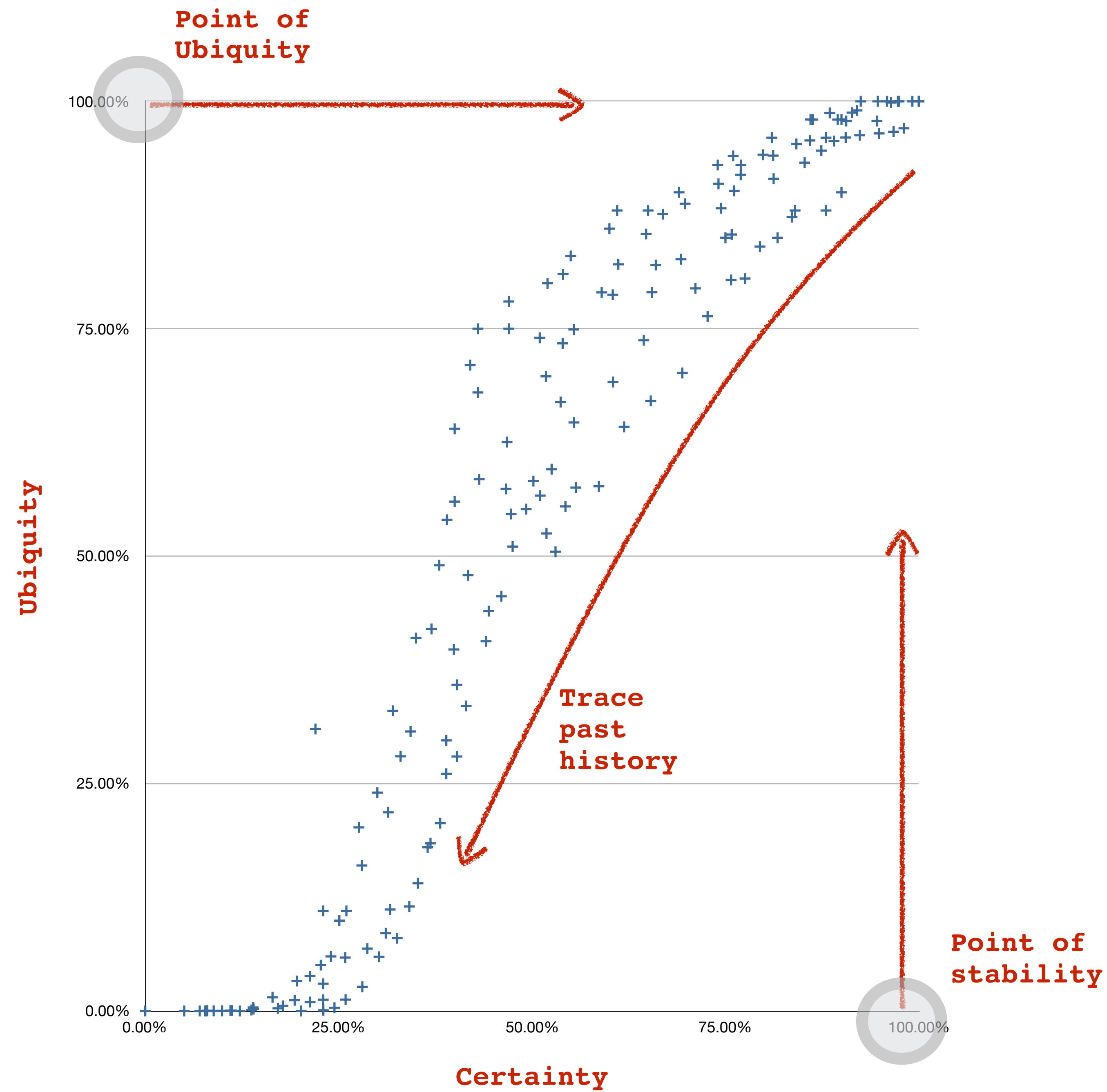
Stage	I	II (key)	III (key)	IV
Publication Type	Wonder	building, construction and awareness	operation, maintenance and feature differences	use

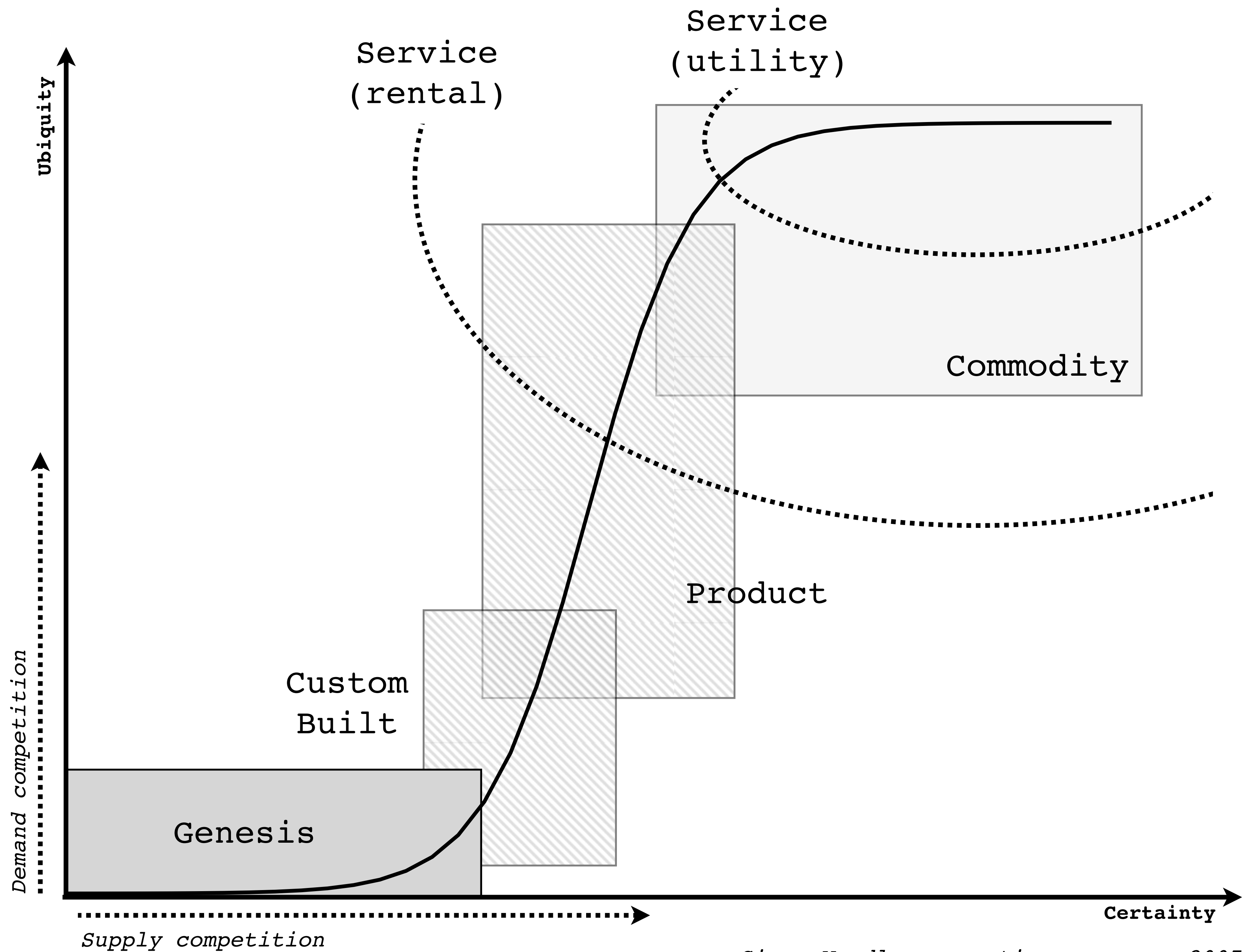


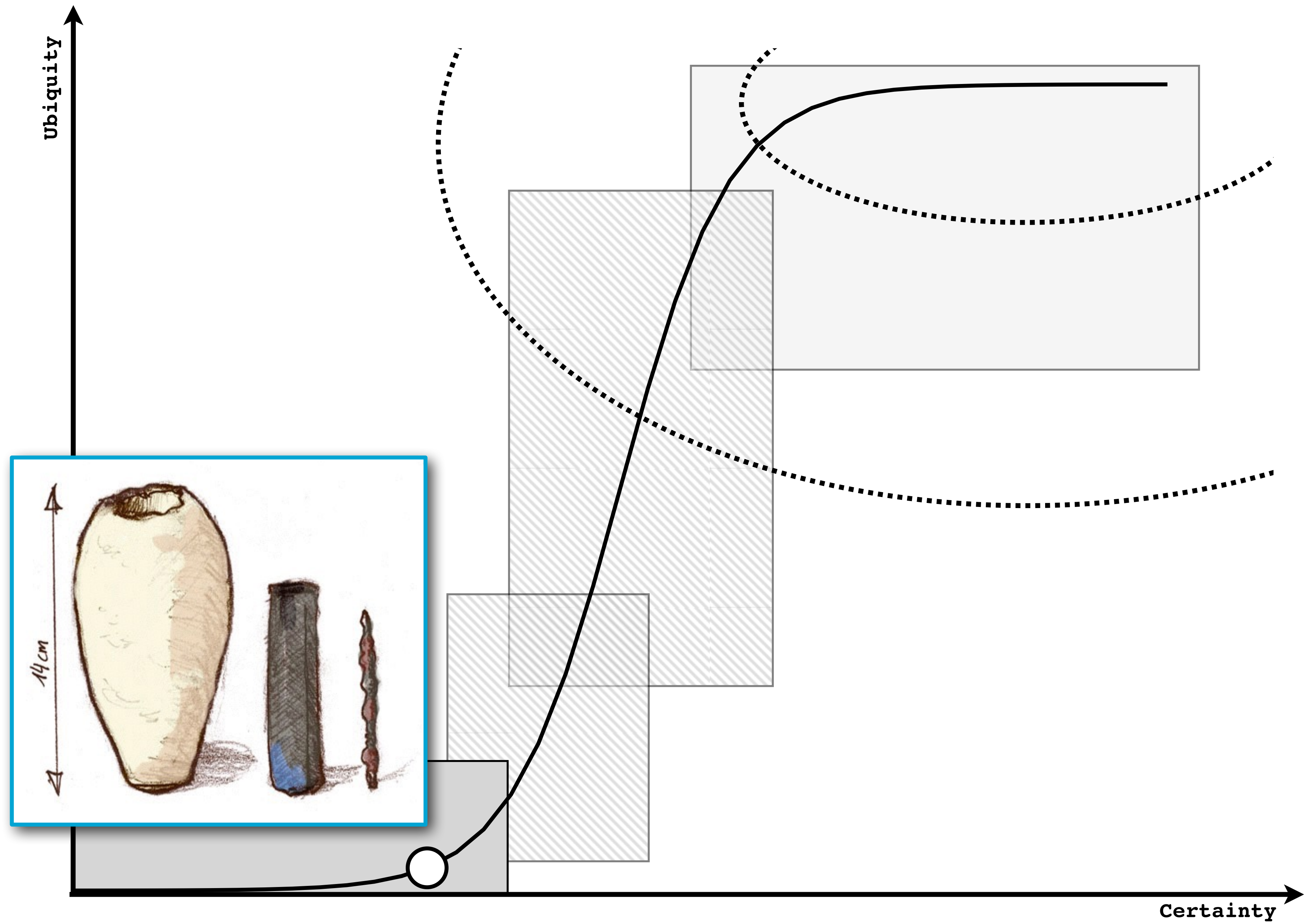
Stage	I	II (key)	III (key)	IV
Publication Type	Wonder	building, construction and awareness	operation, maintenance and feature differences	use

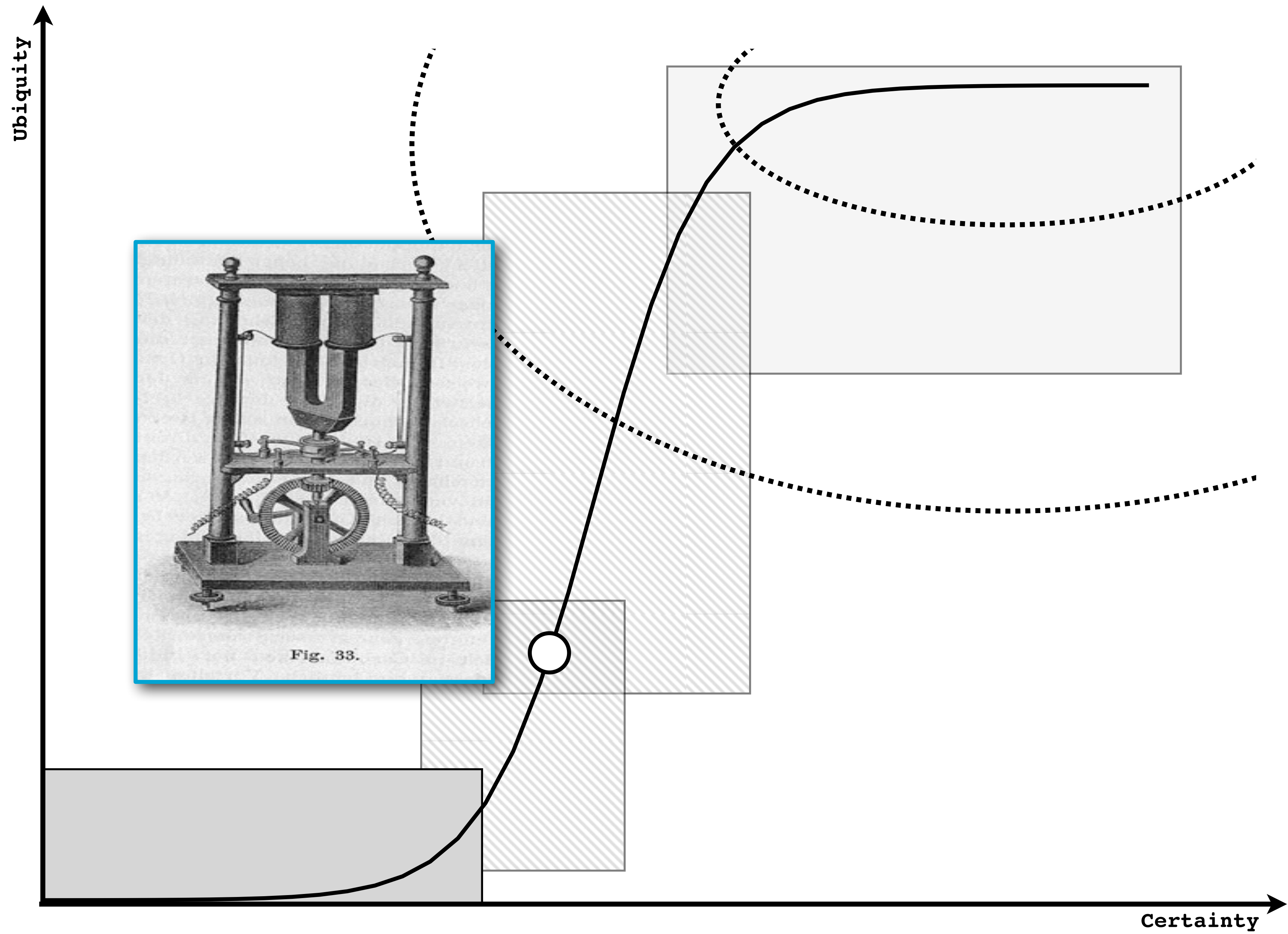


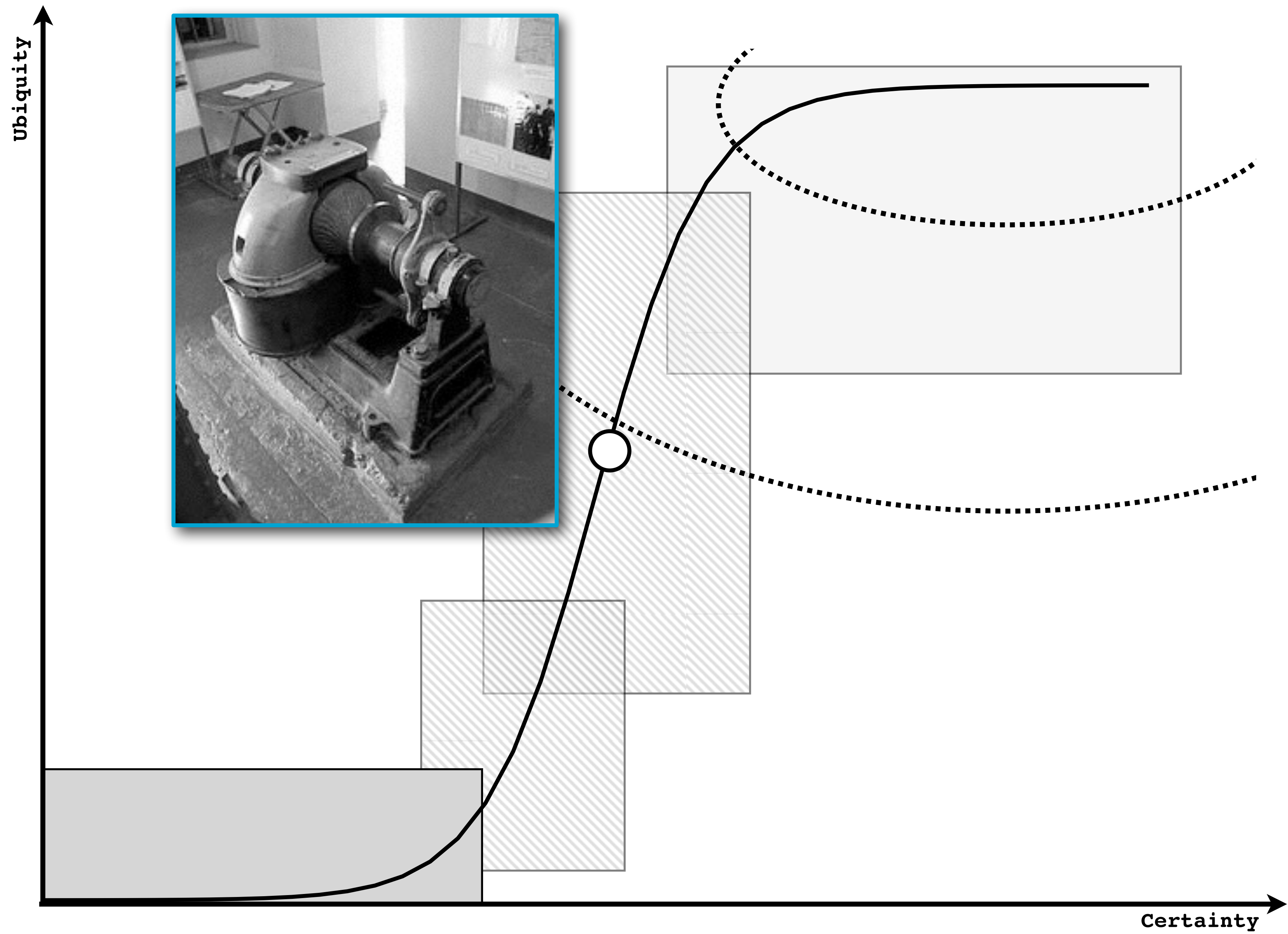


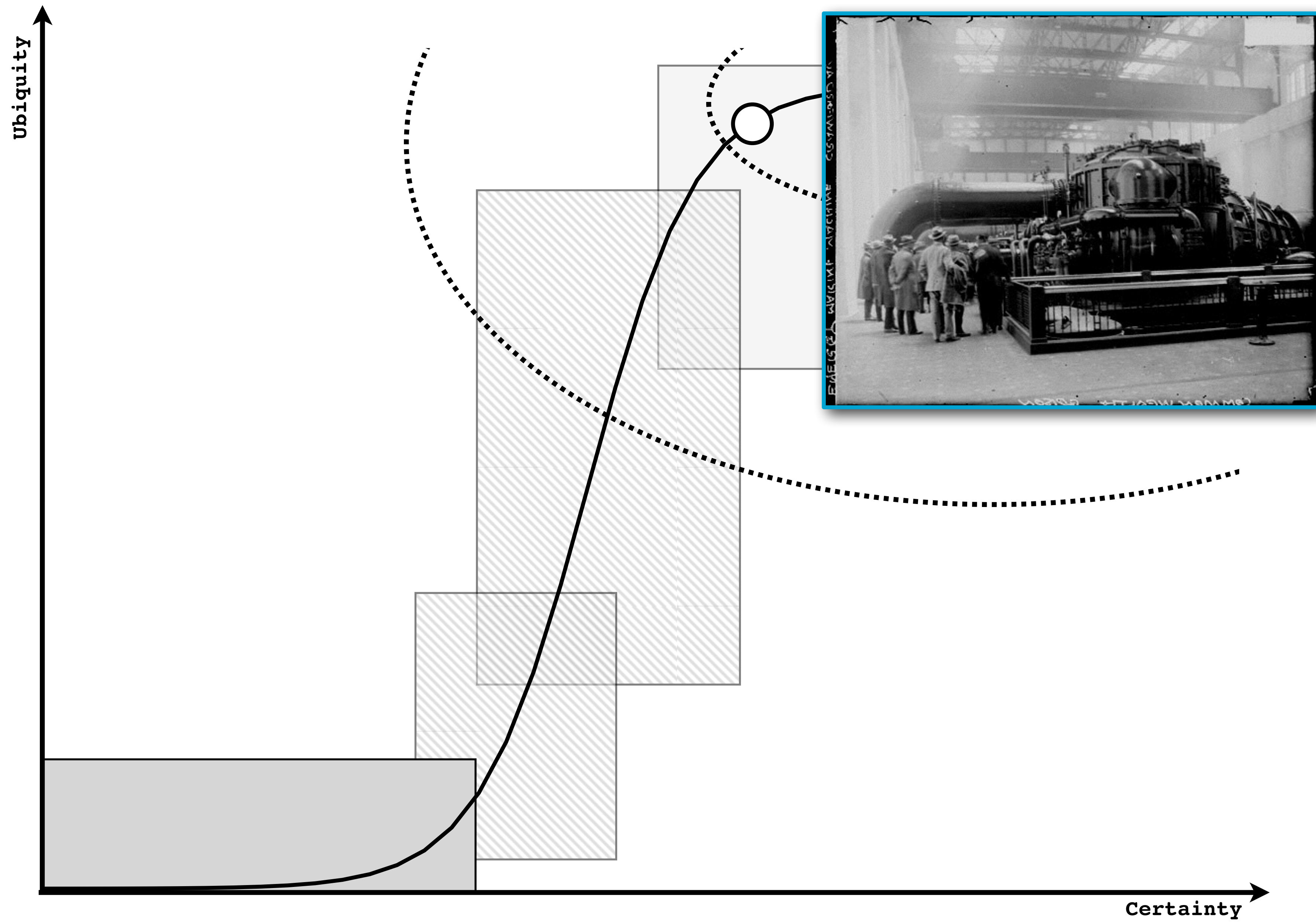


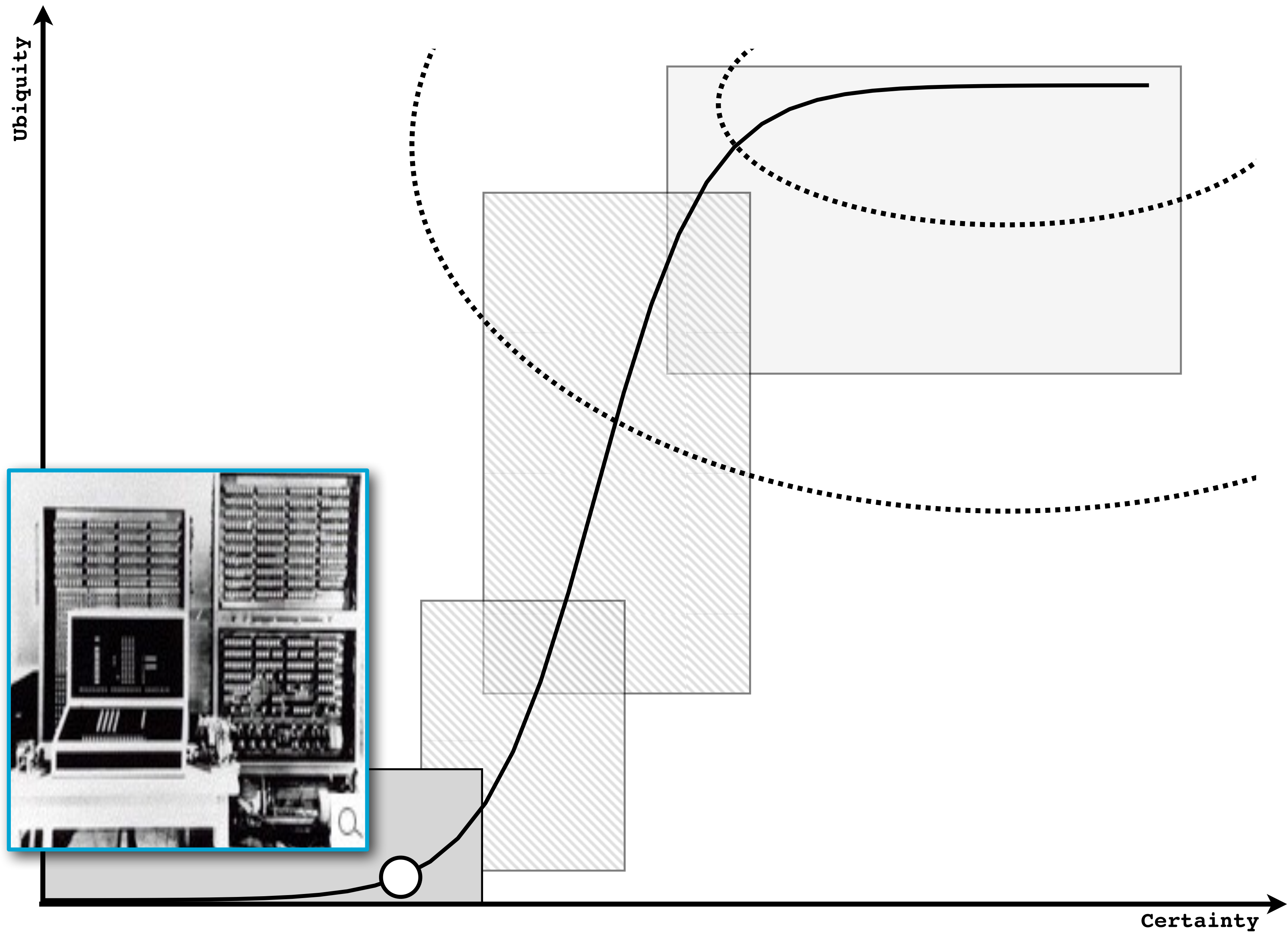


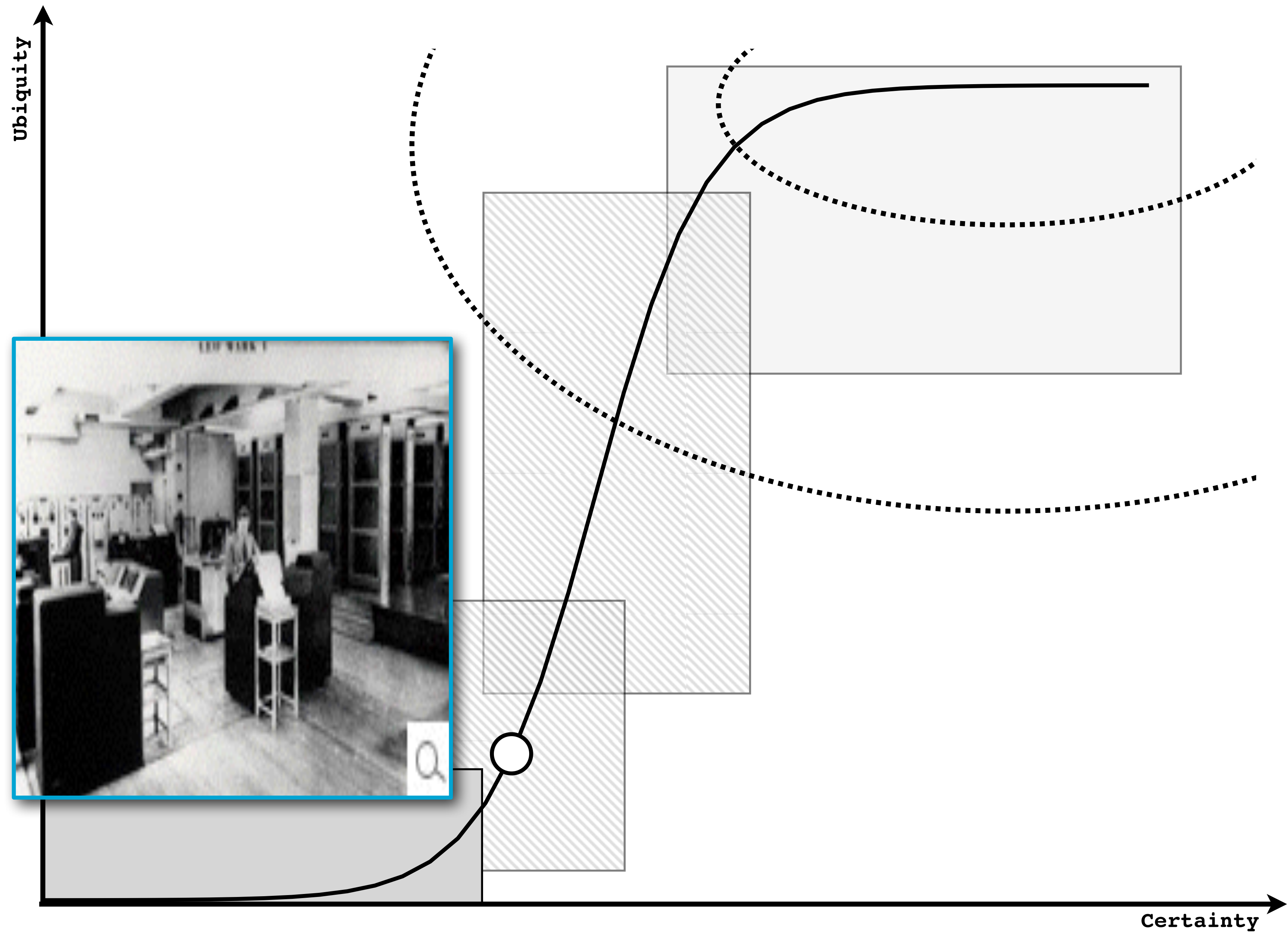


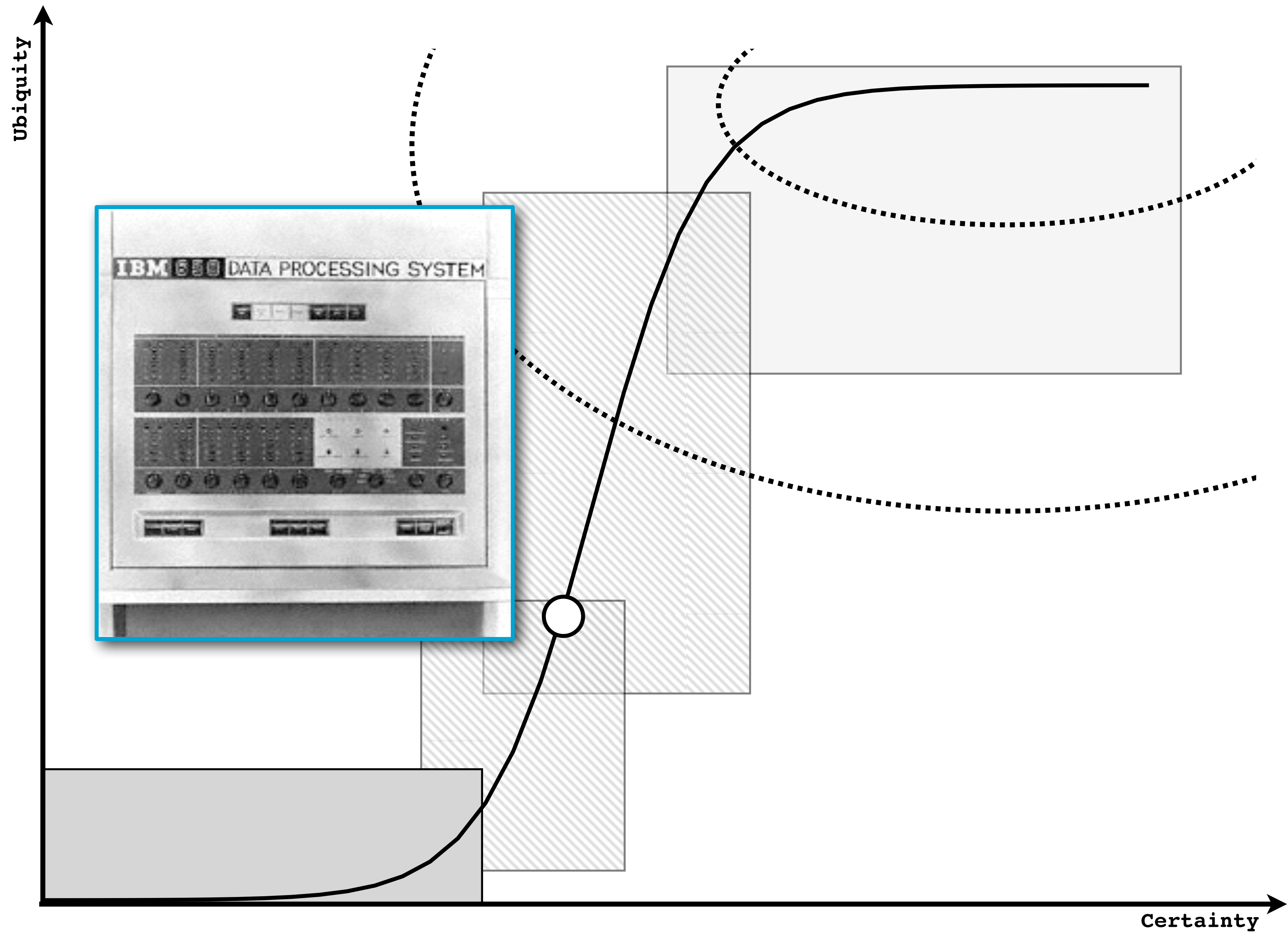


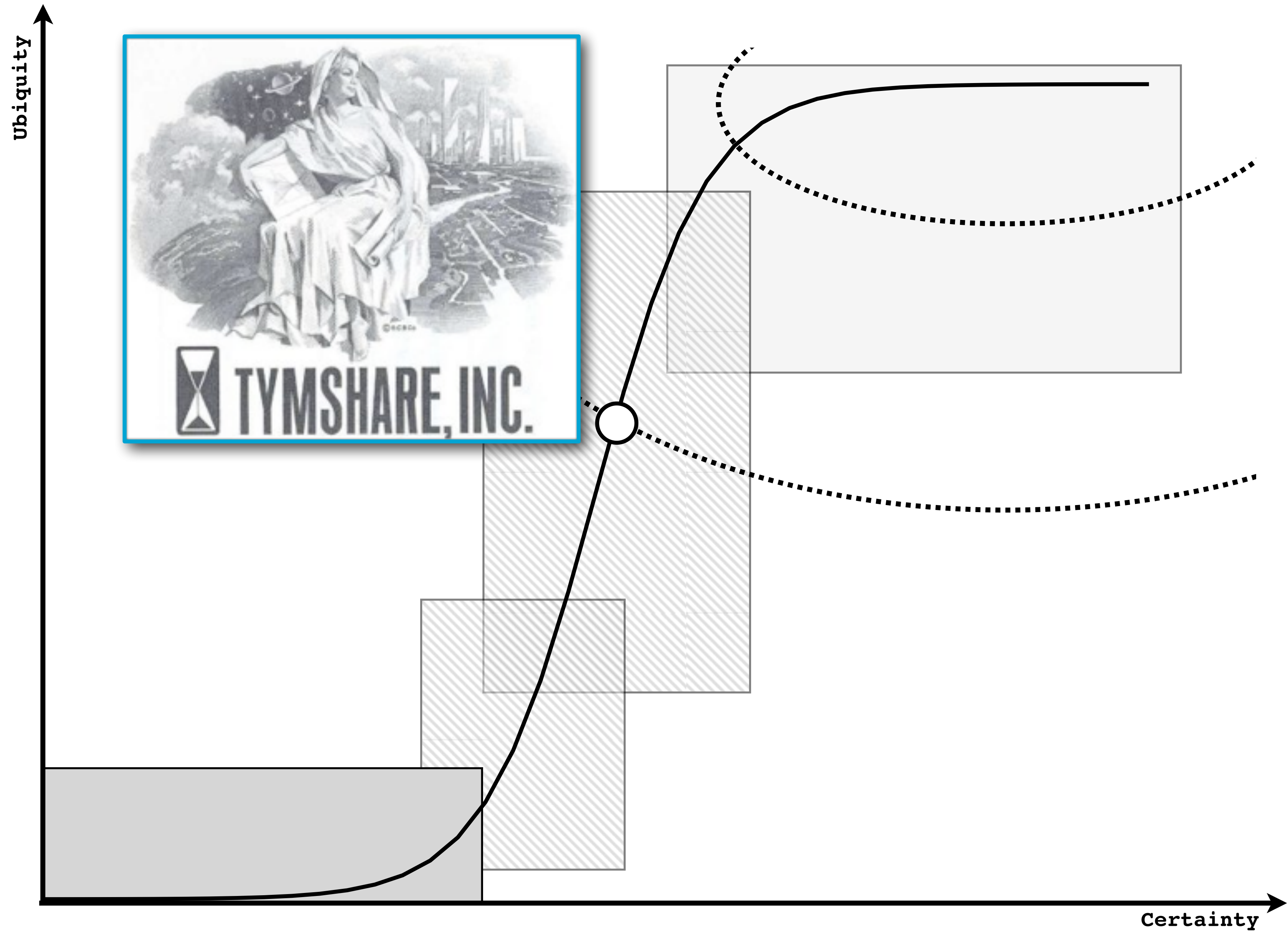


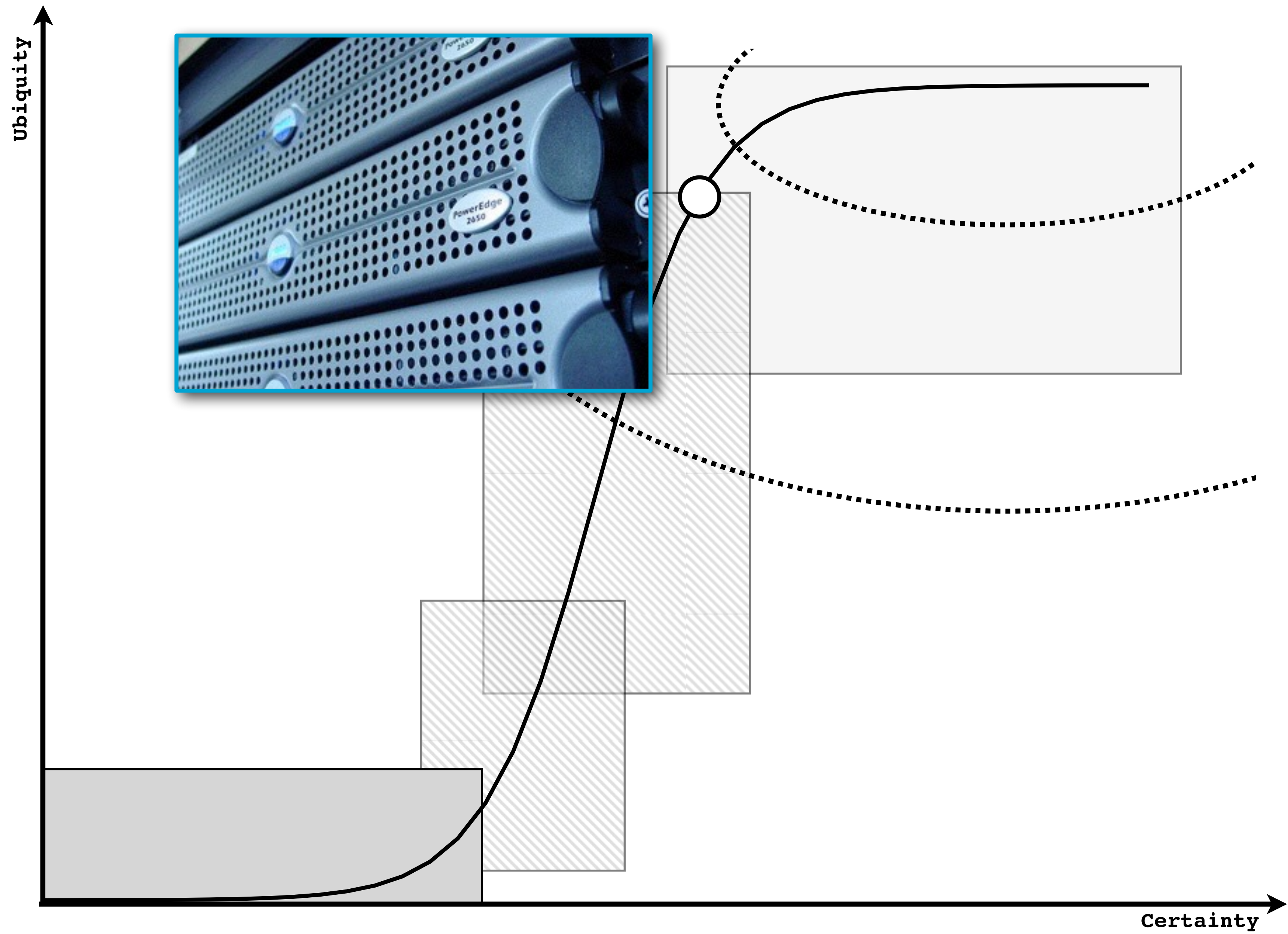


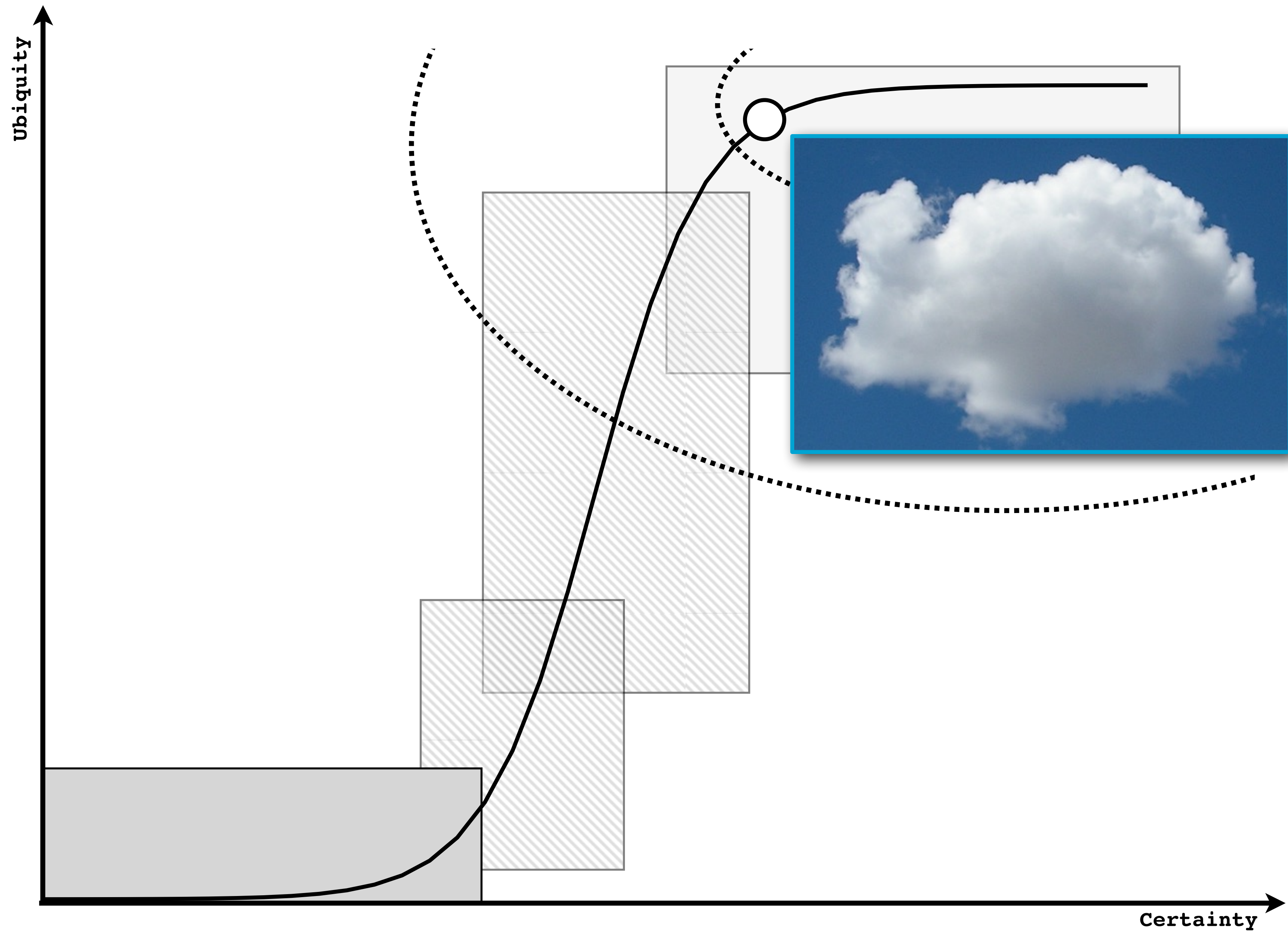


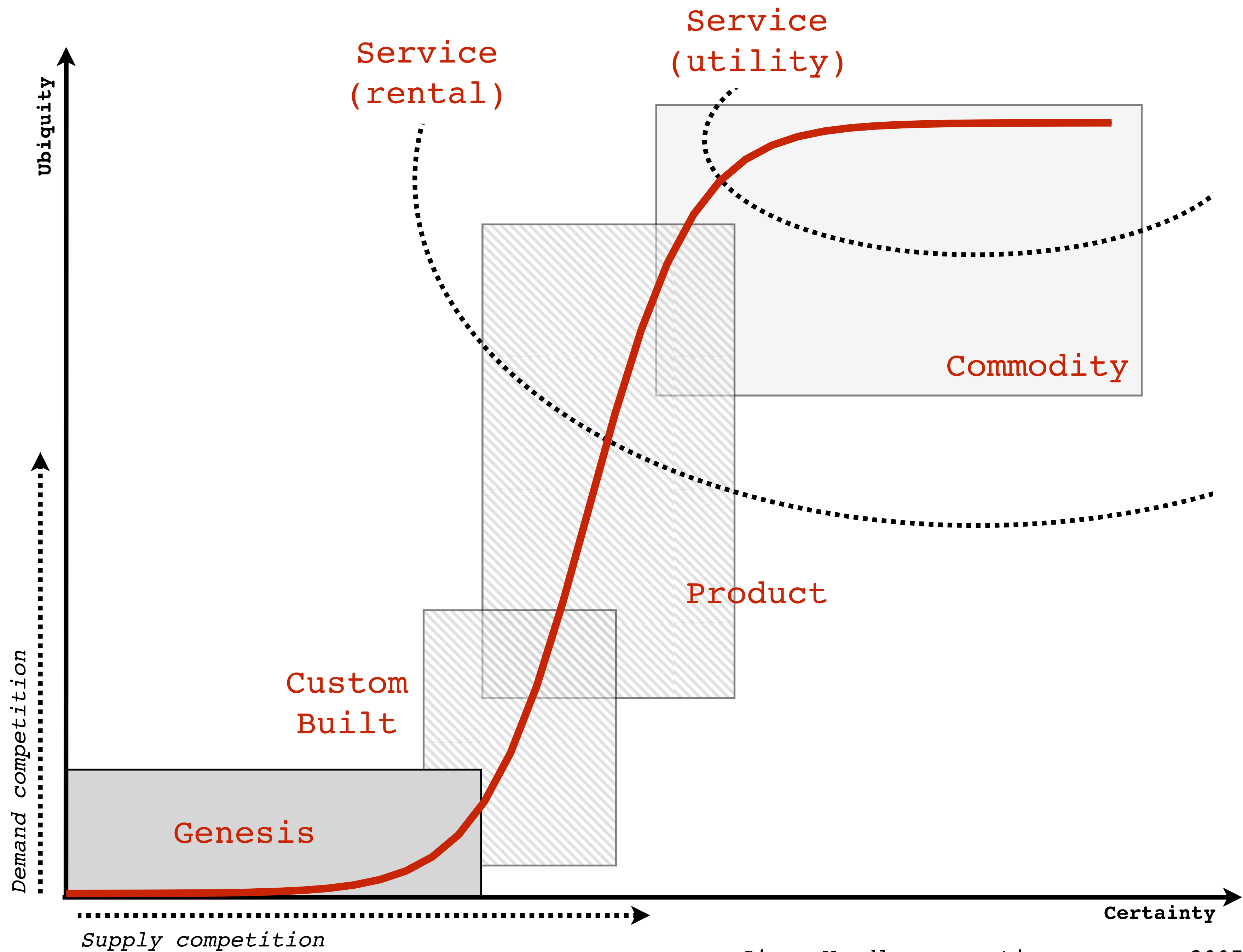




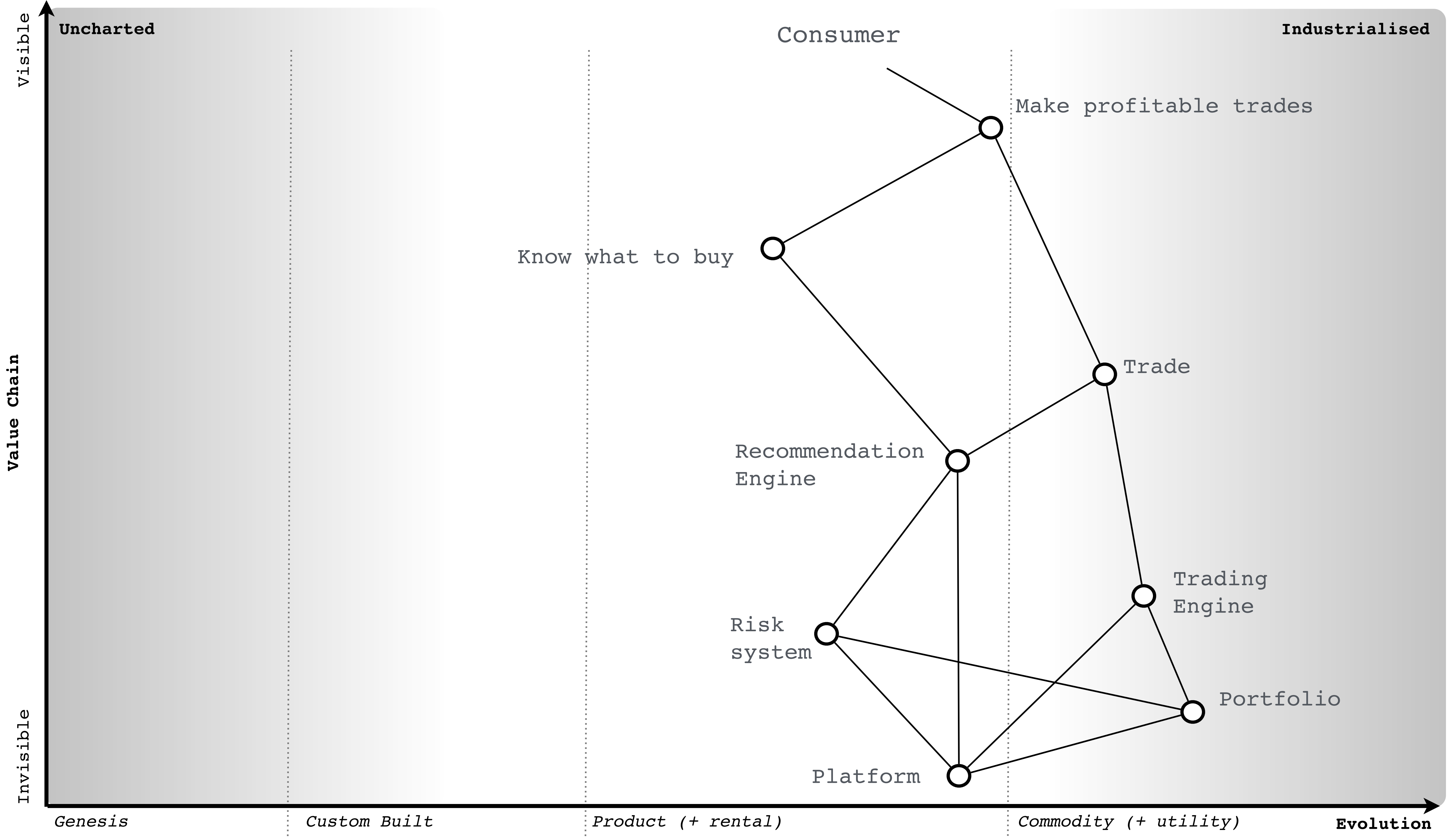


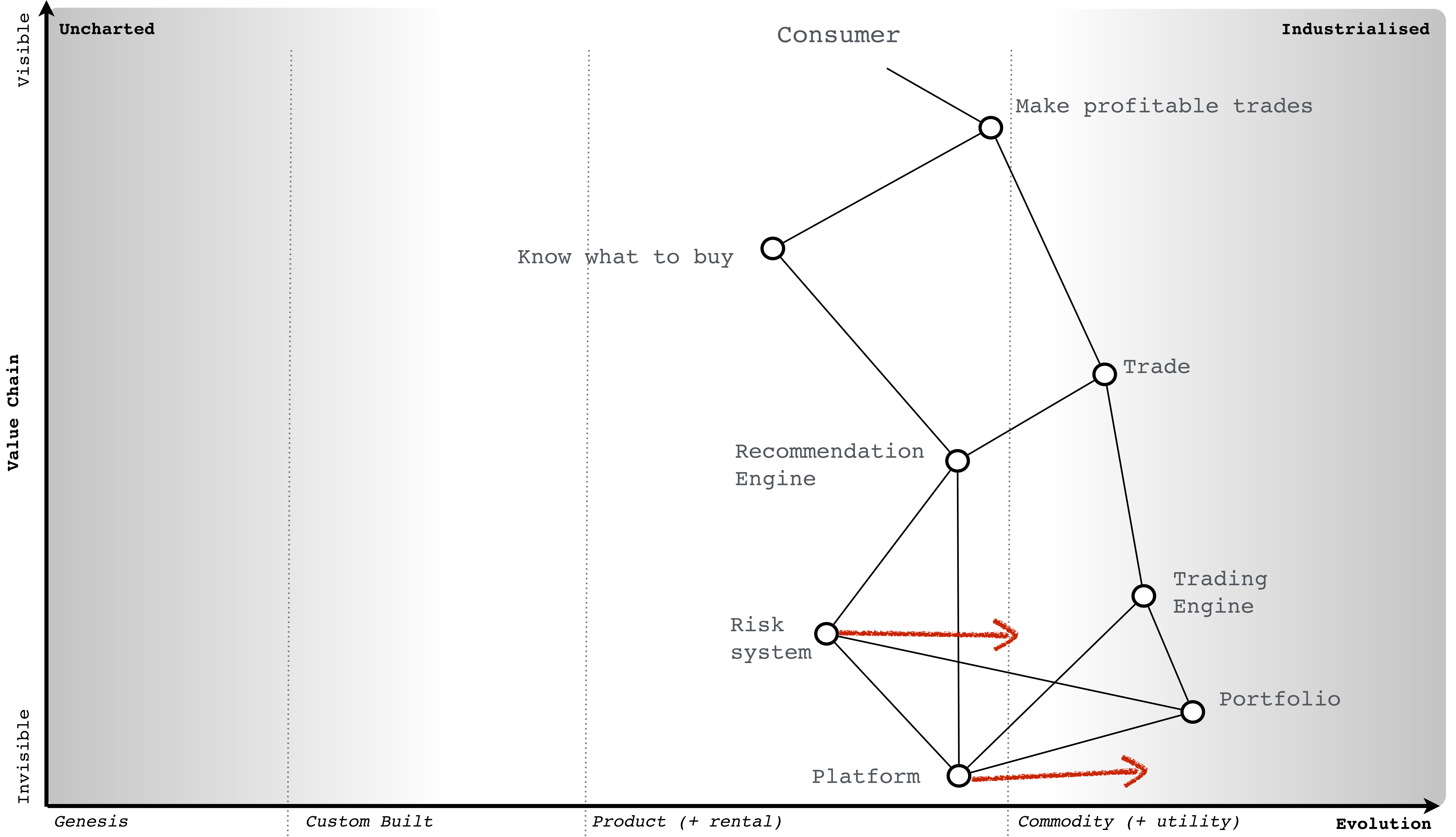


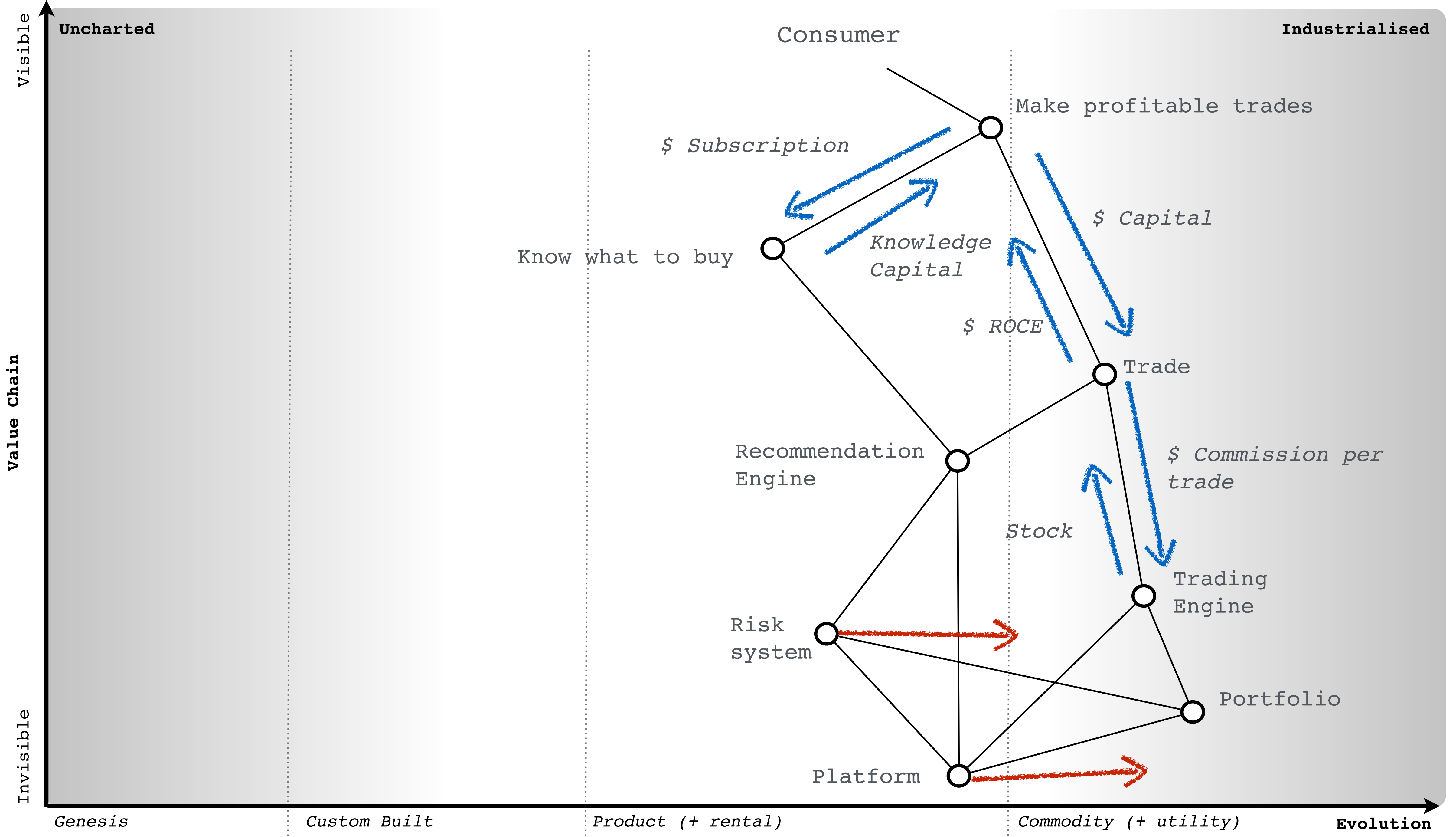




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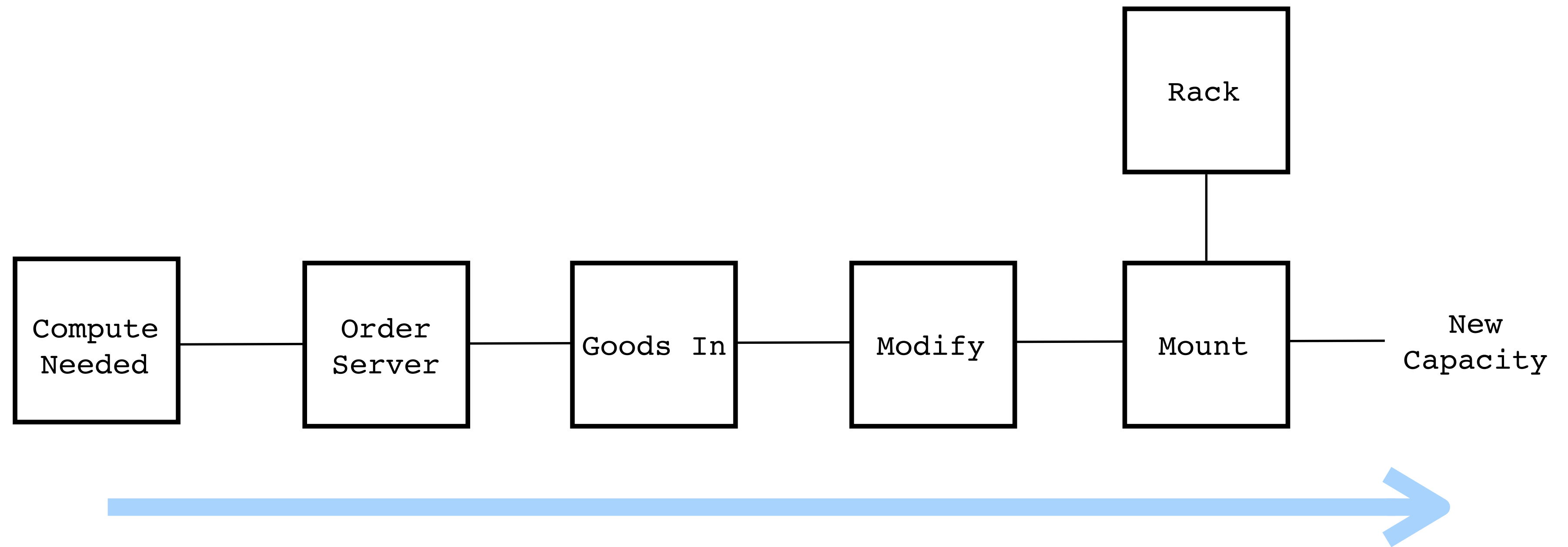




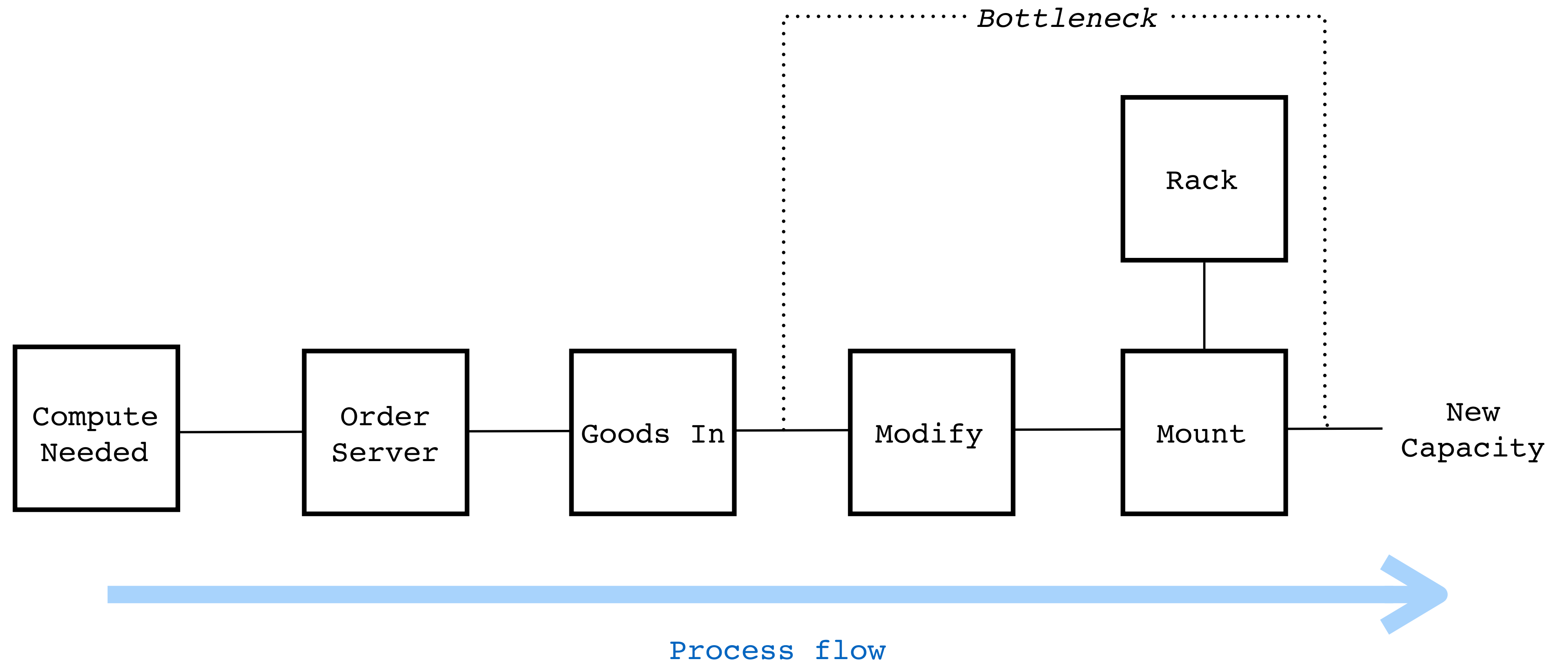




Insurance policy
pursuant to the

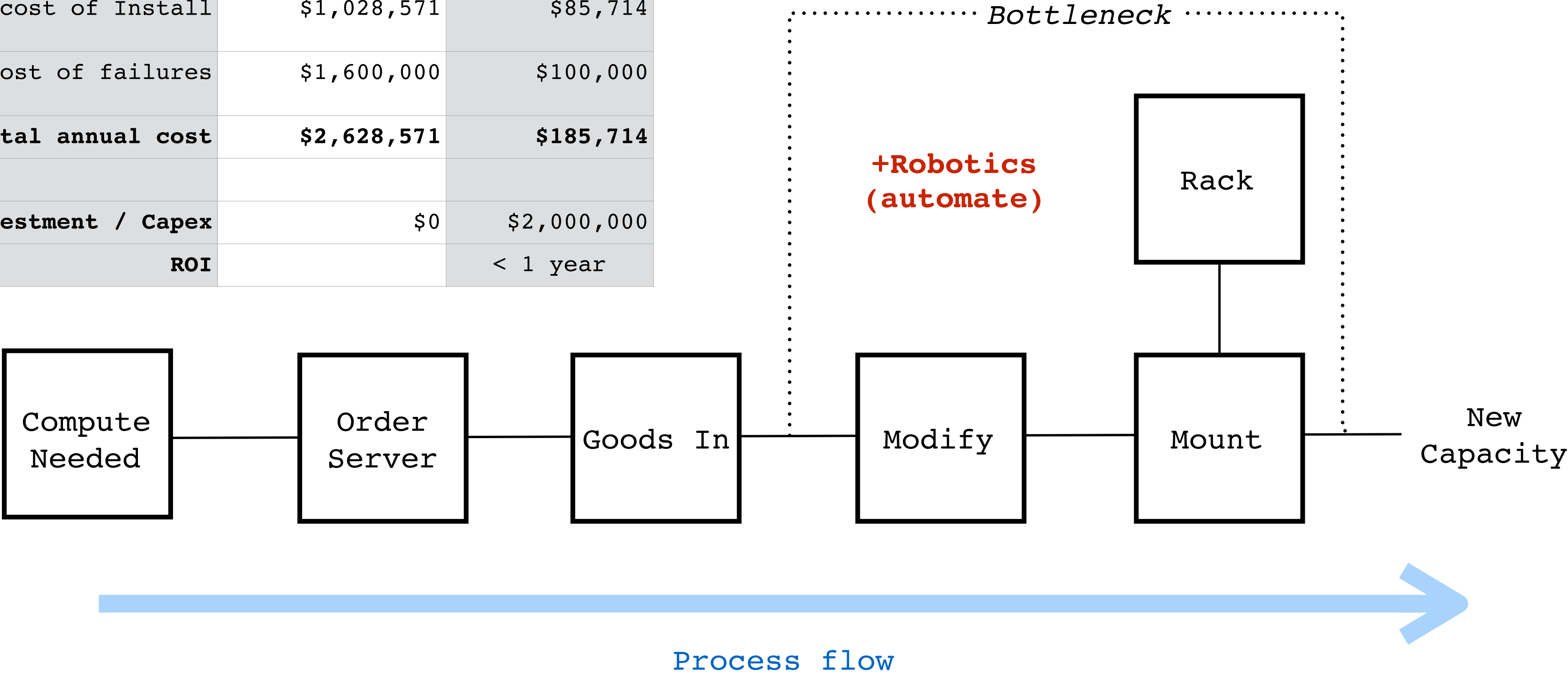


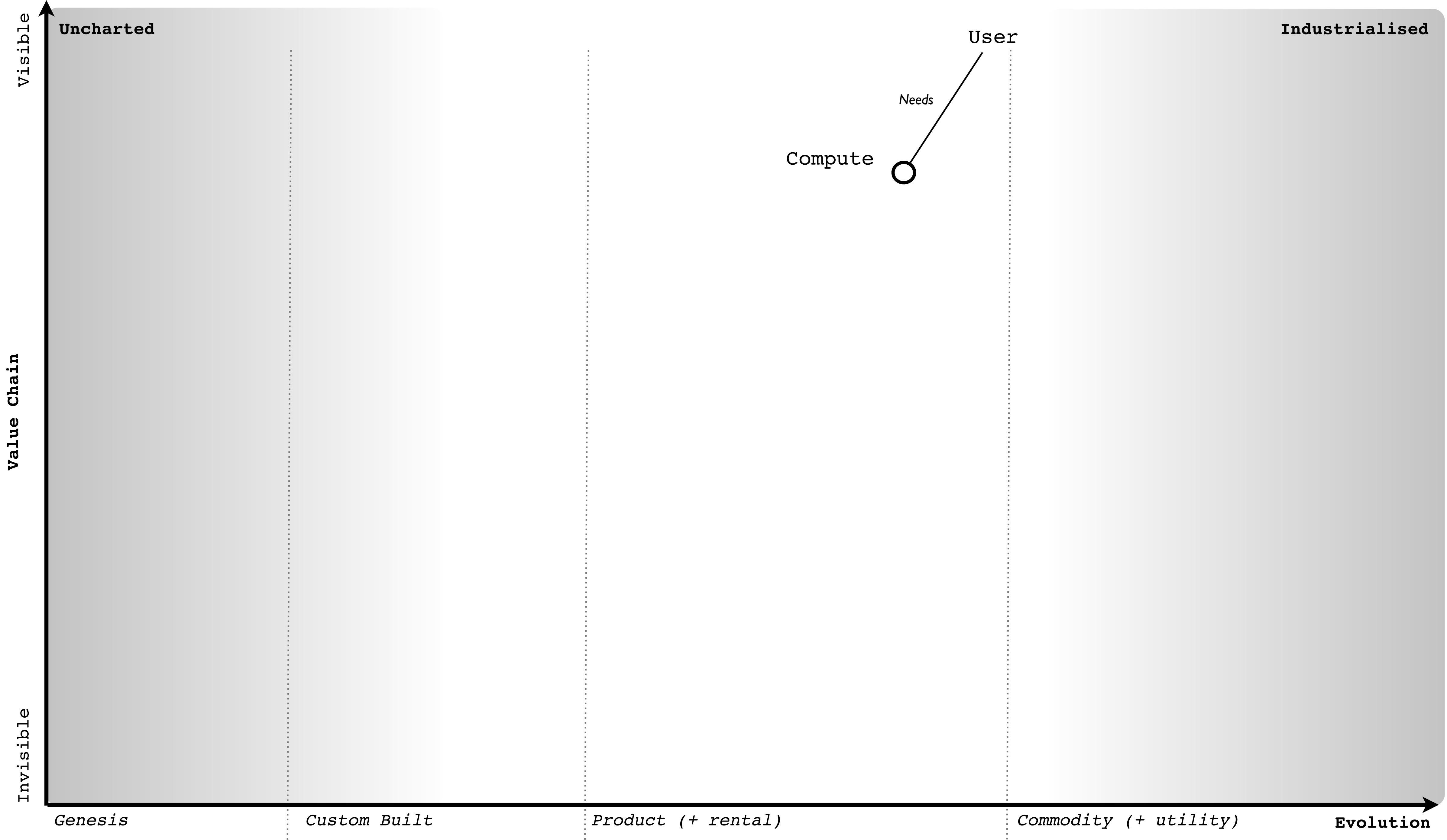
Process flow

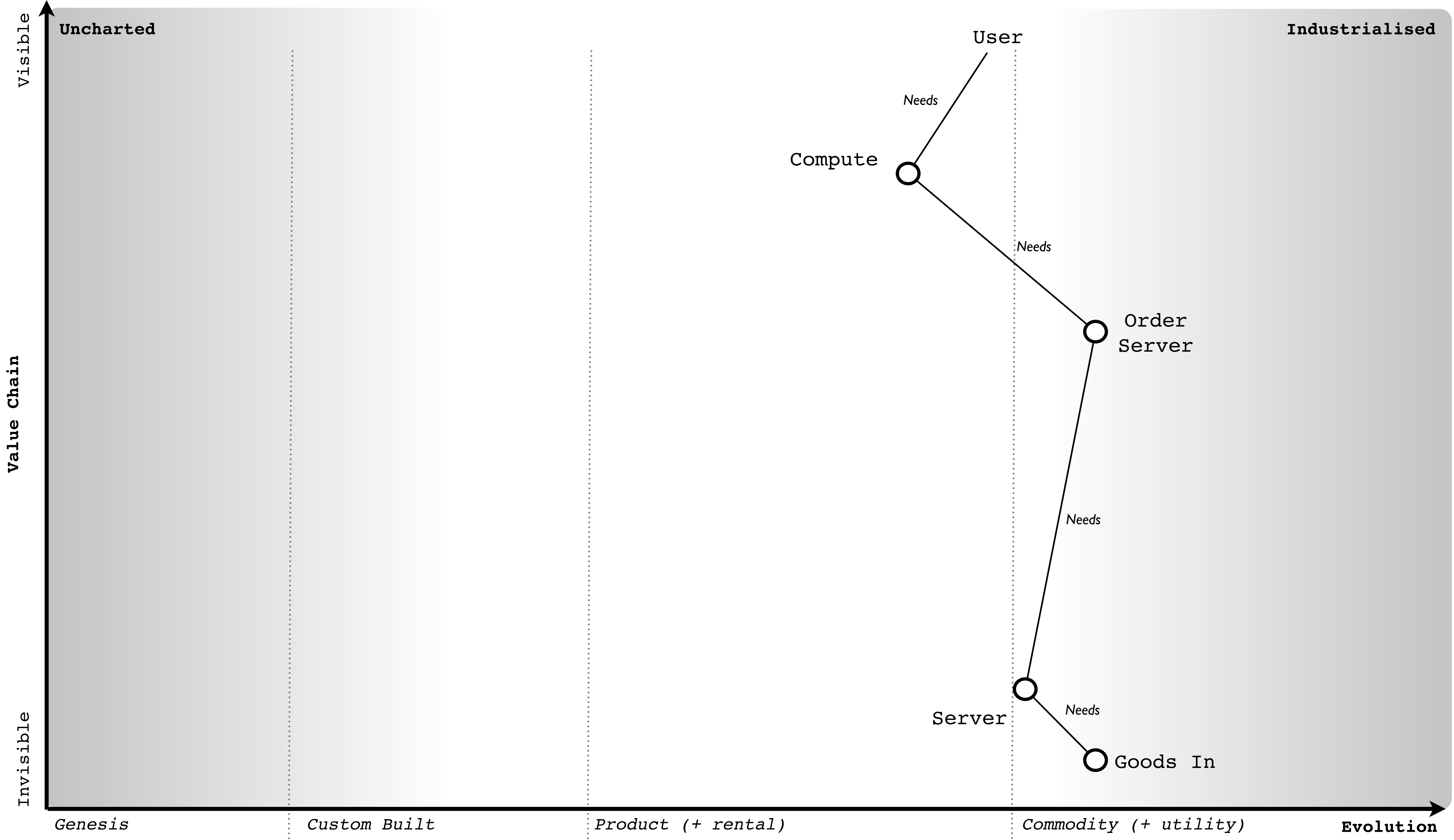


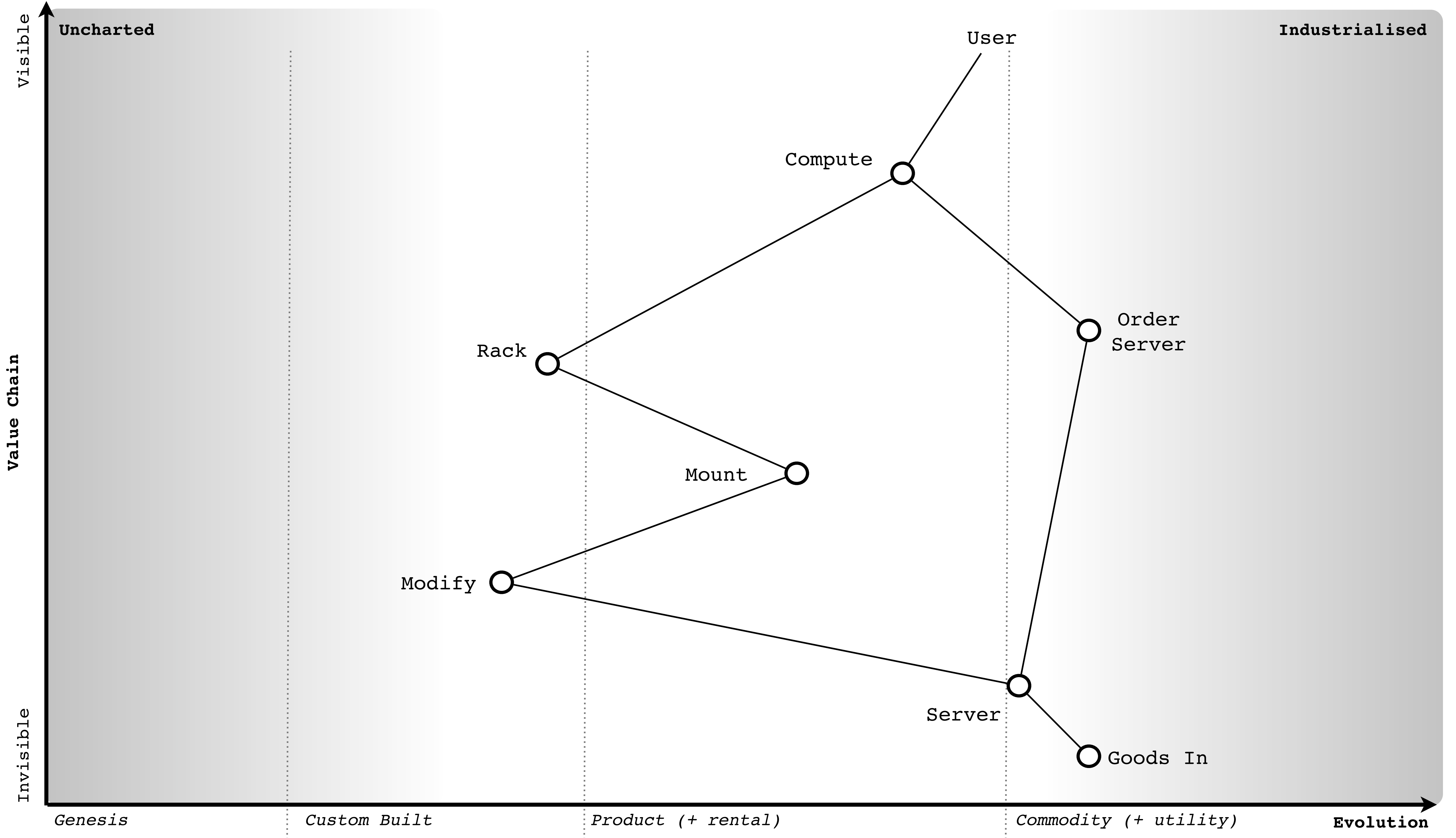
Question : Would you invest?

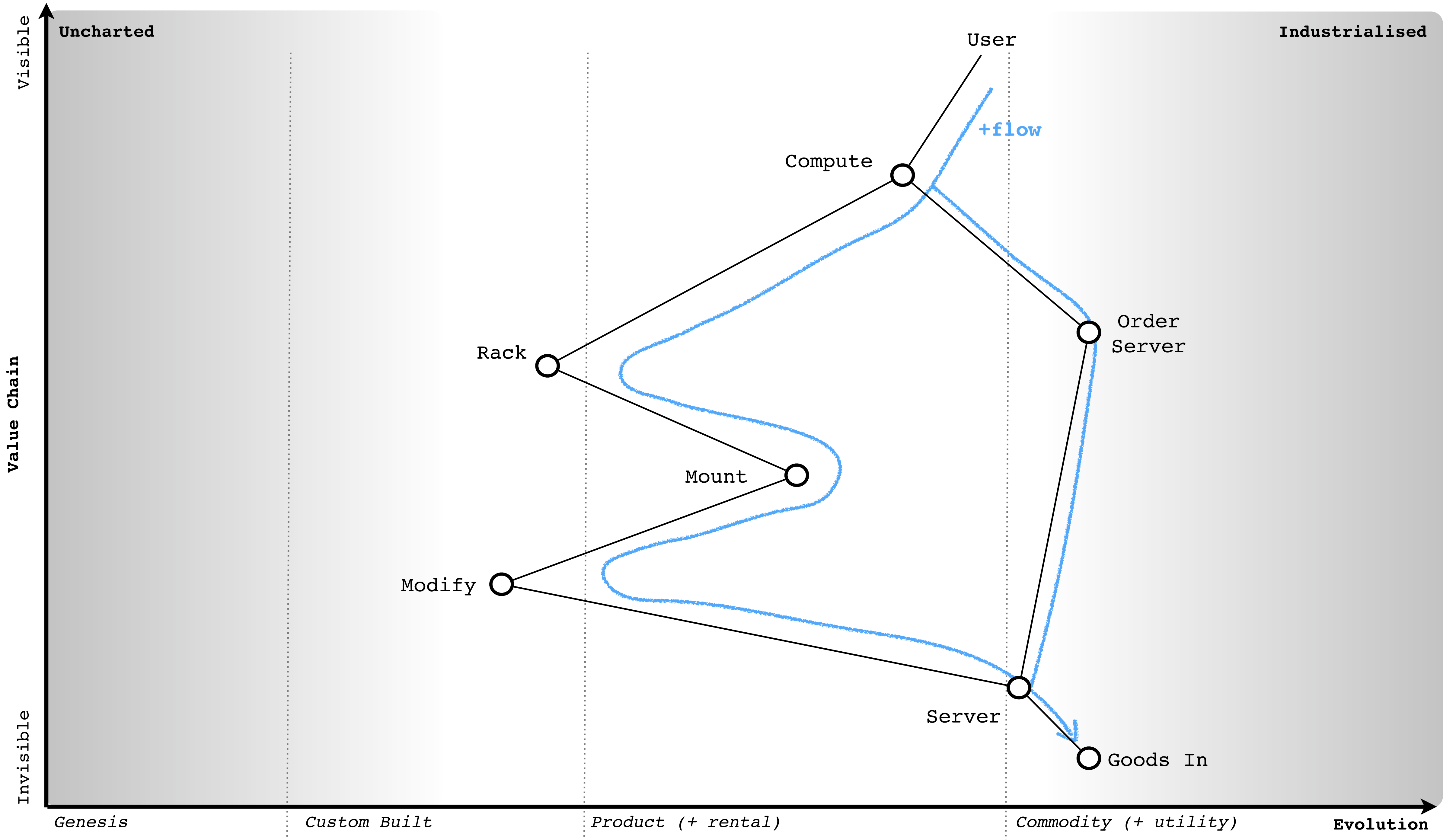
	Current	Robotic
Cost per install failure	\$2,500.00	\$2,500.00
% likelihood of failure	8.0%	0.5%
Average cost of failure per install	\$200	\$13
Time to install (mins)	120	30
Labour cost per install	\$129	\$11
Annual number of install	8,000	8,000
Total annual cost of Install	\$1,028,571	\$85,714
Total annual cost of failures	\$1,600,000	\$100,000
Total annual cost	\$2,628,571	\$185,714
Investment / Capex	\$0	\$2,000,000
ROI		< 1 year

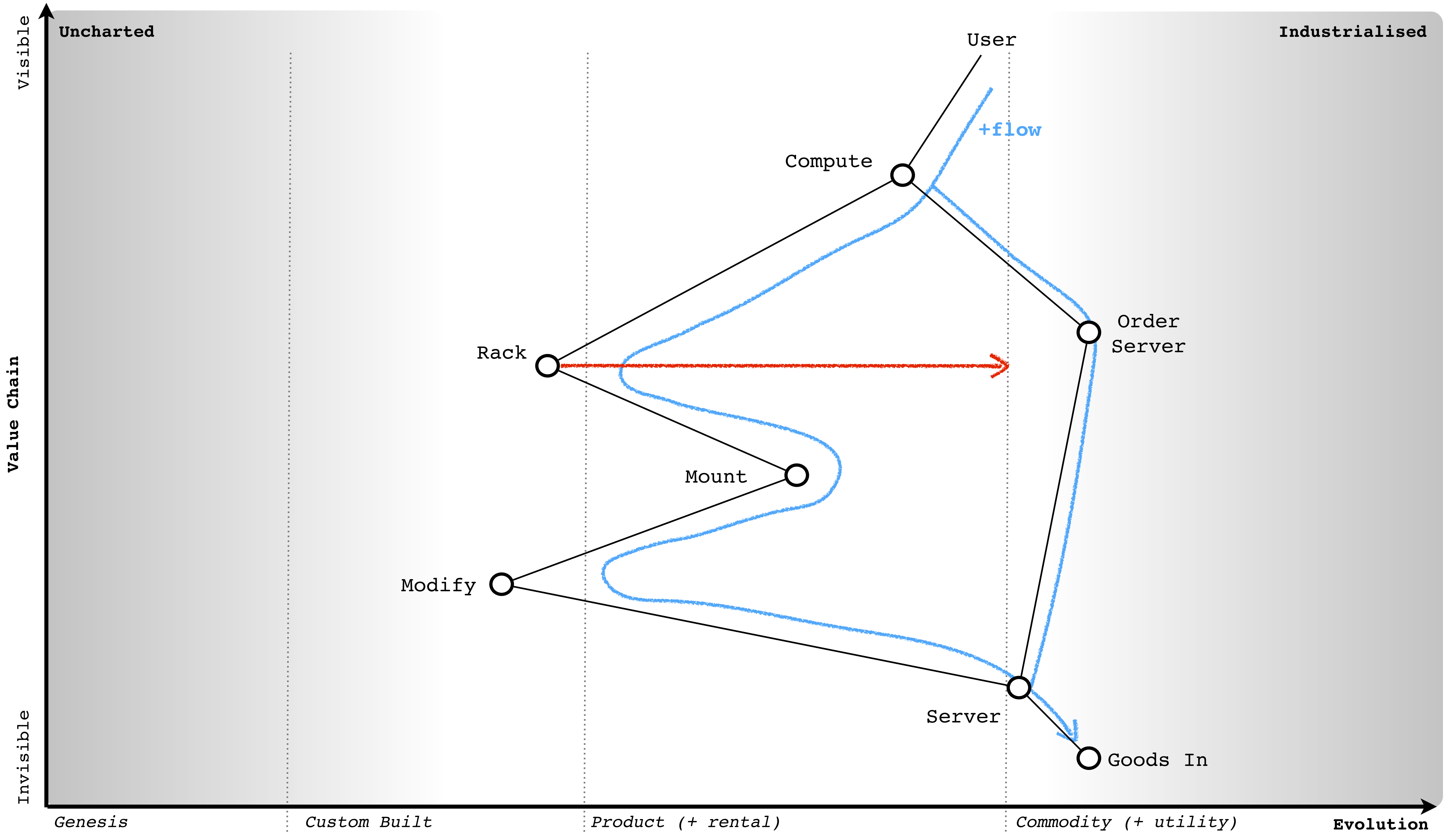


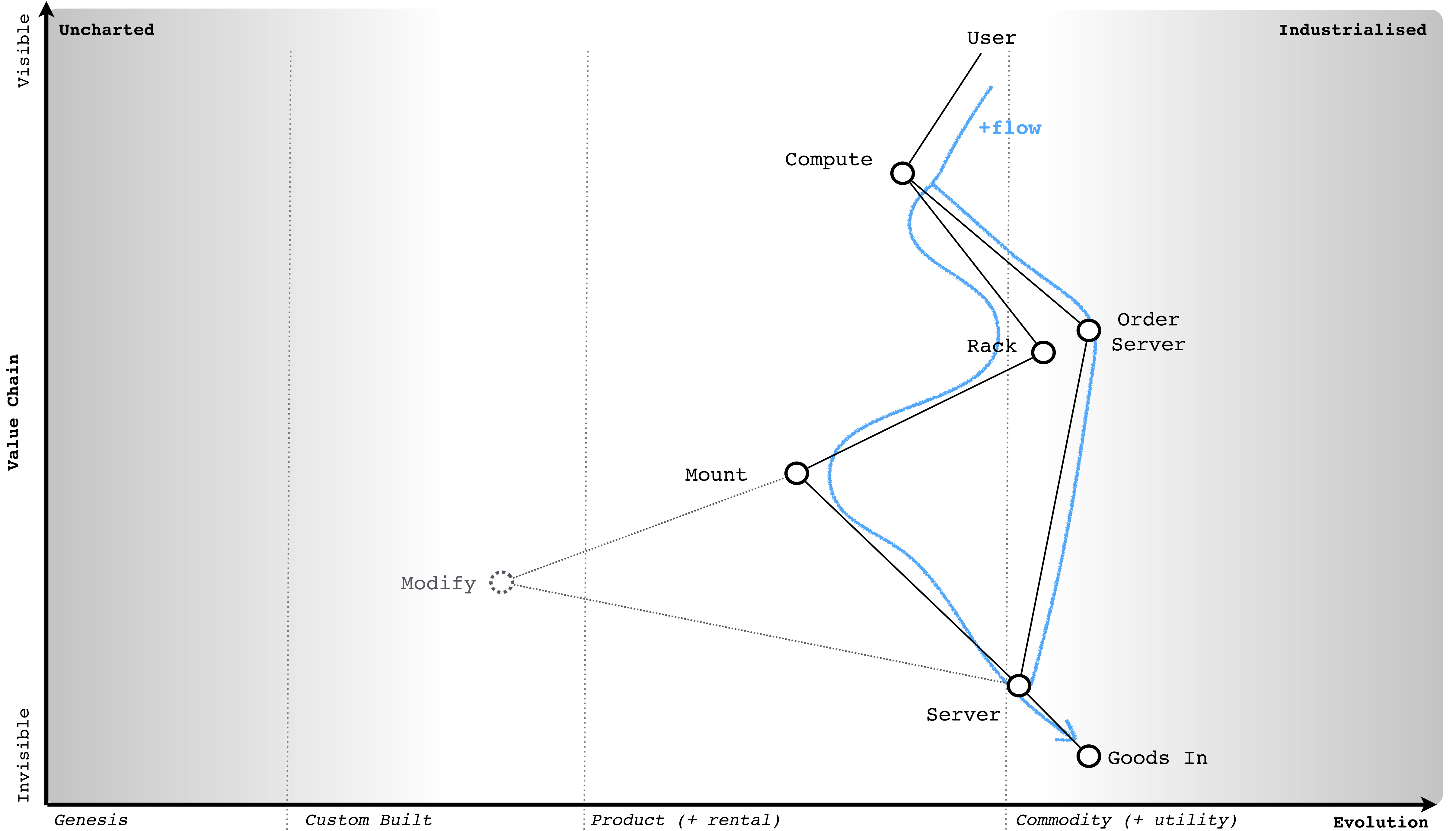


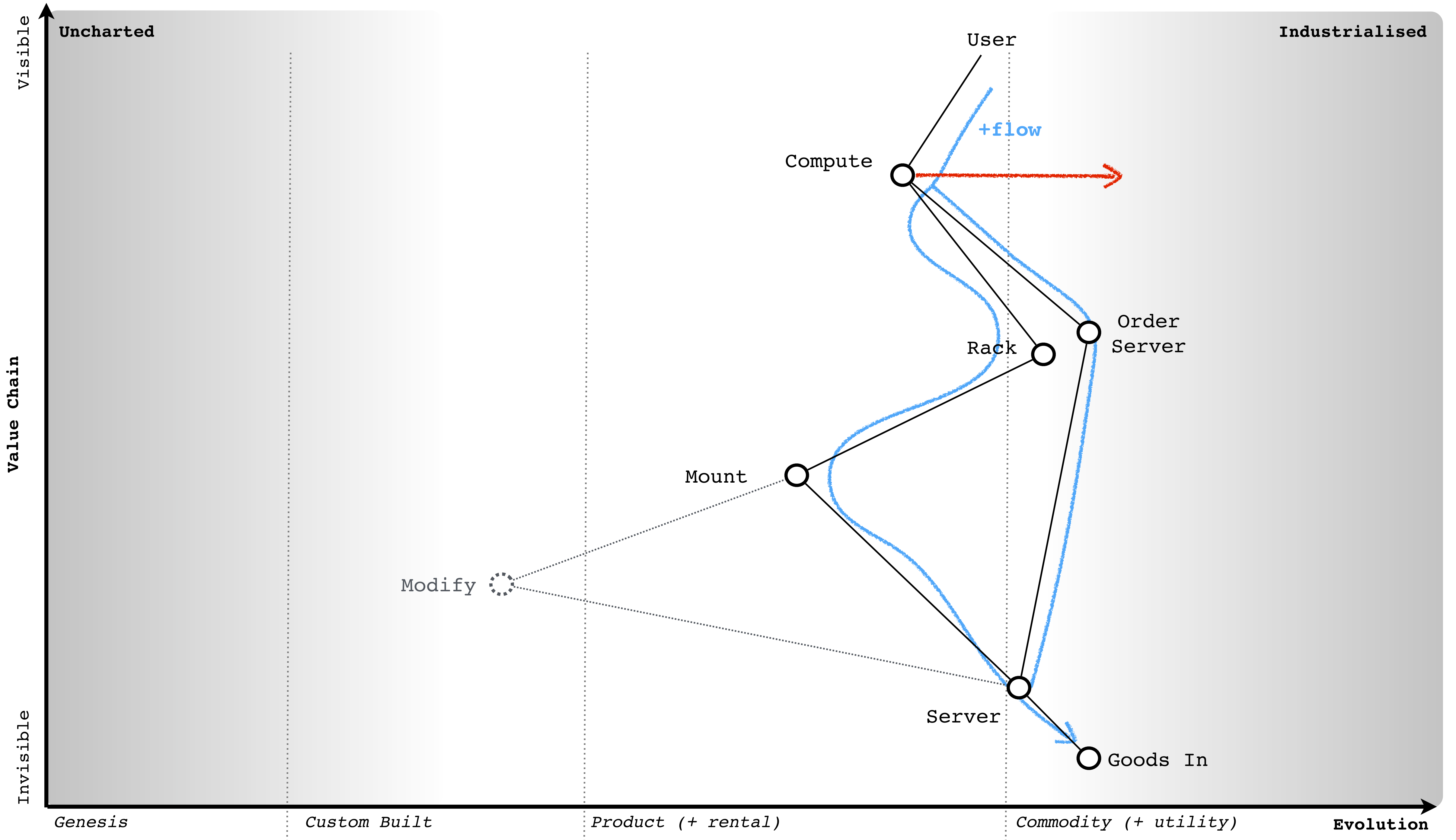


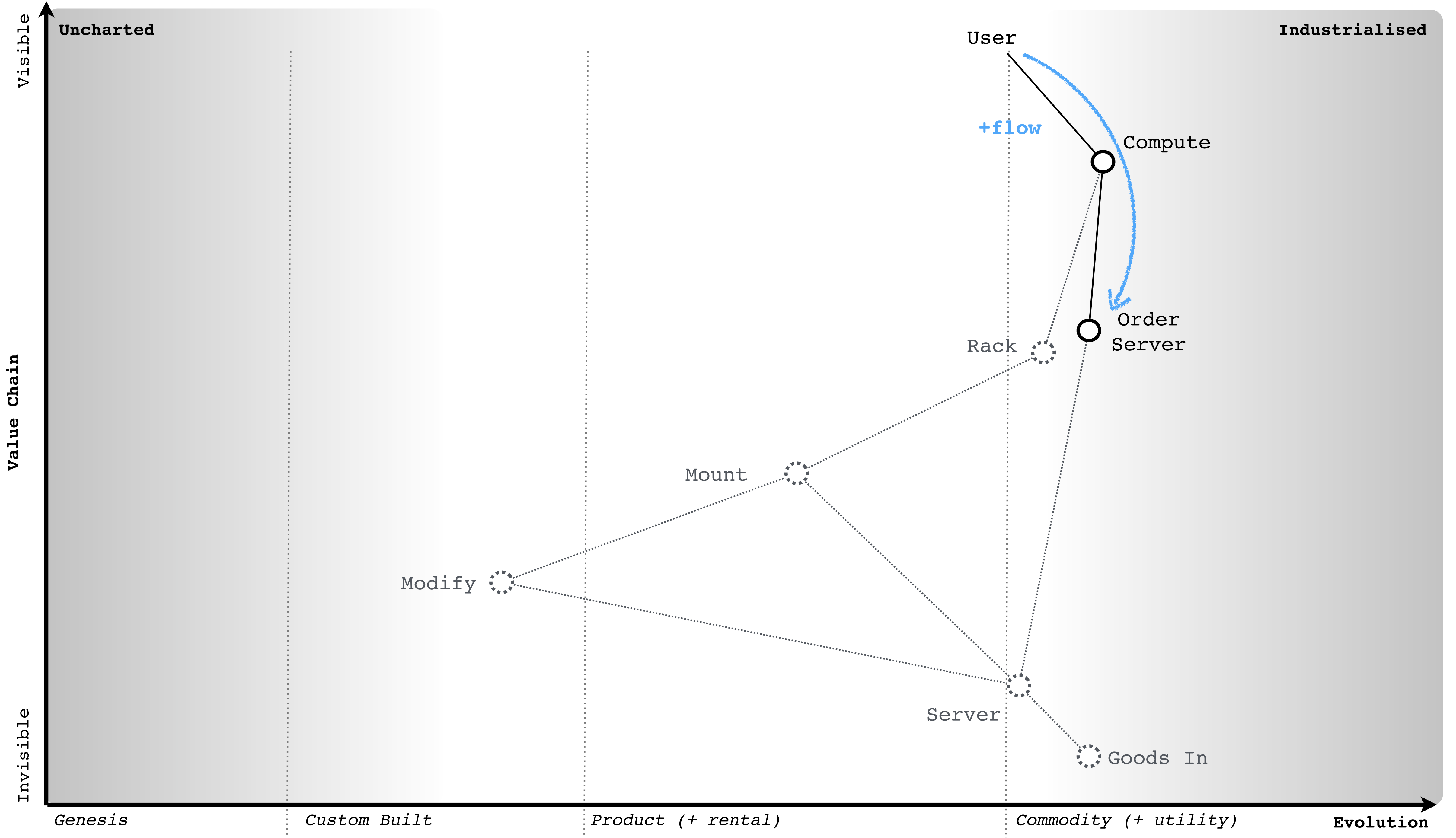


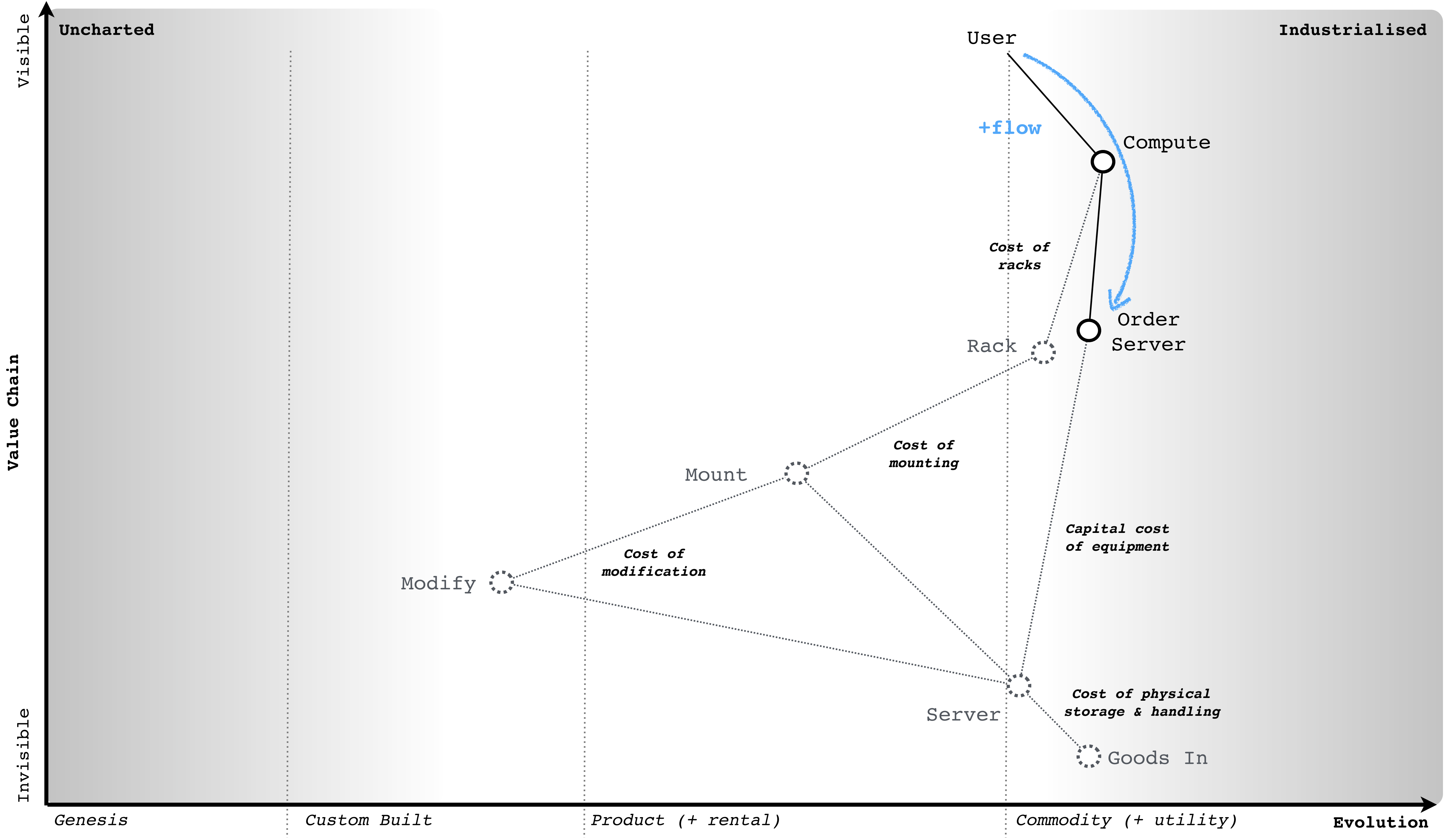


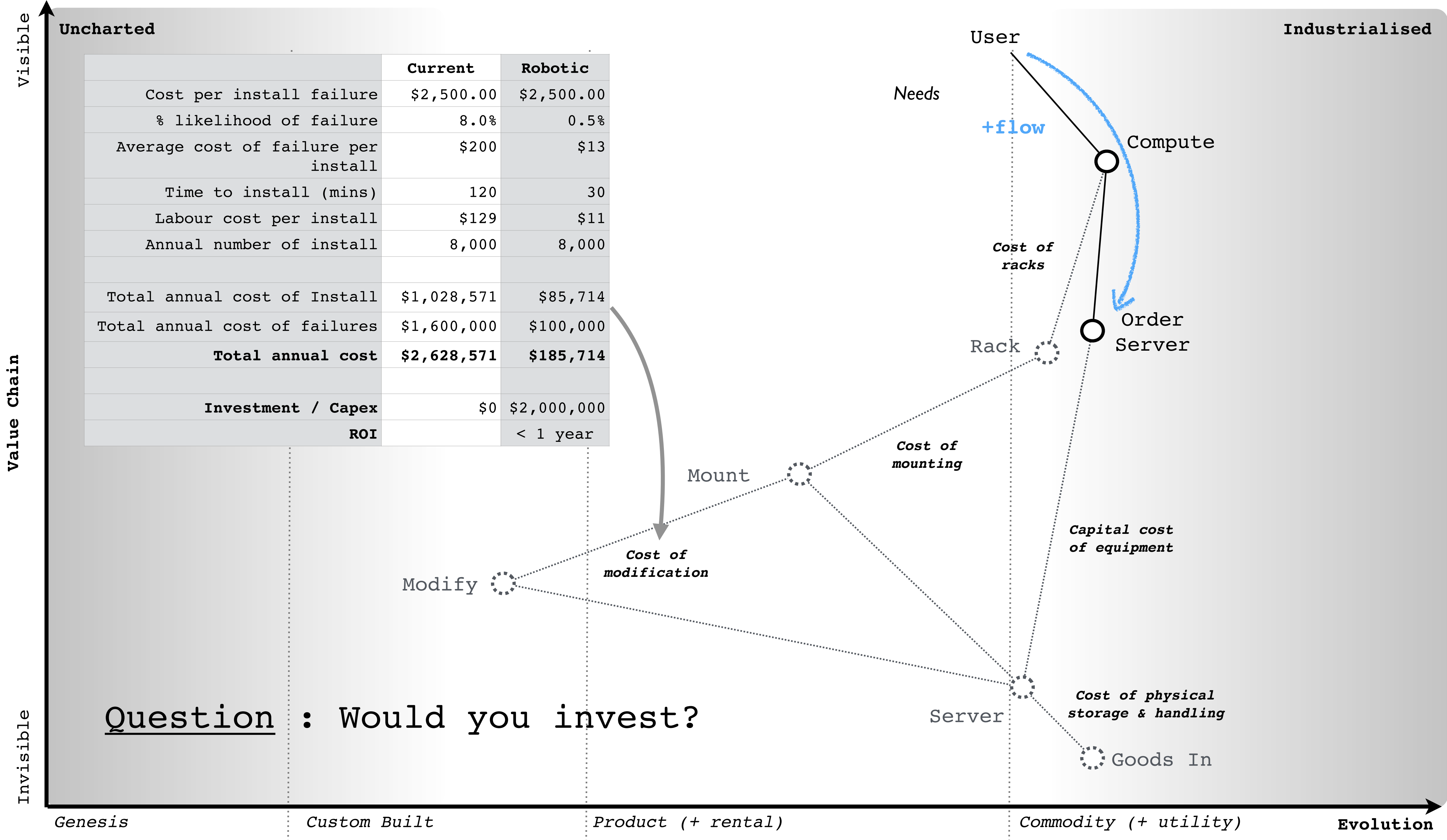




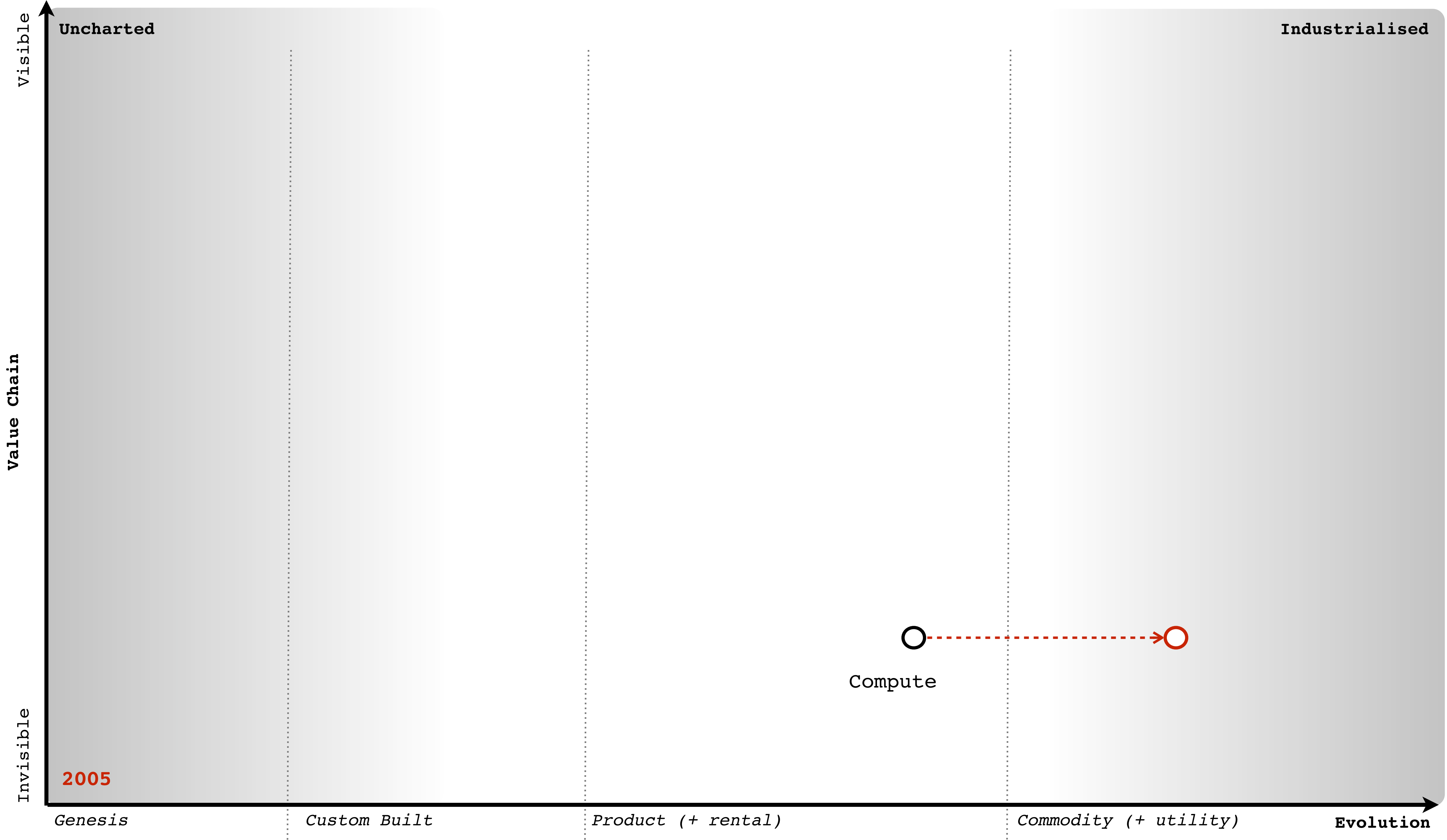


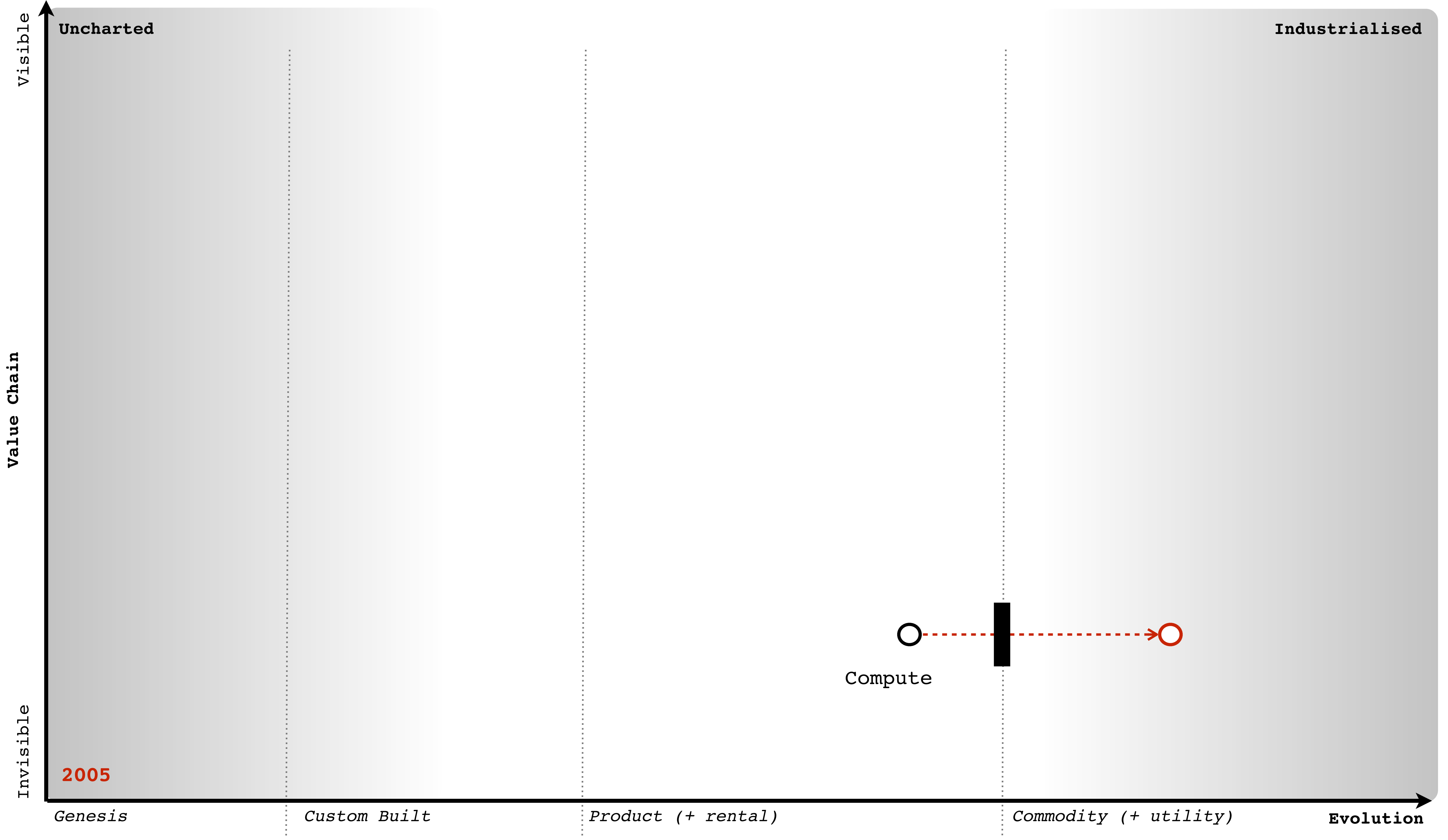


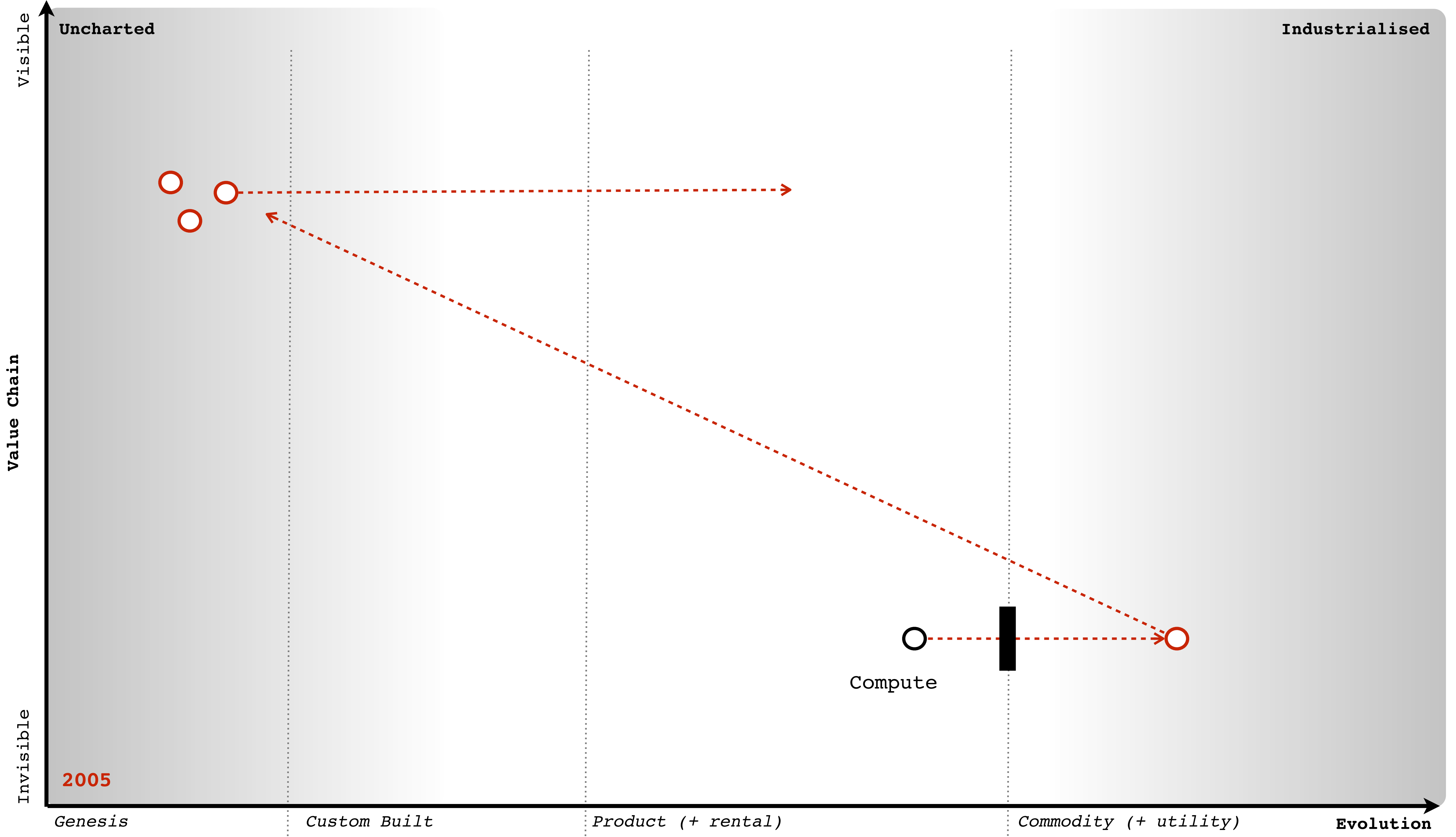


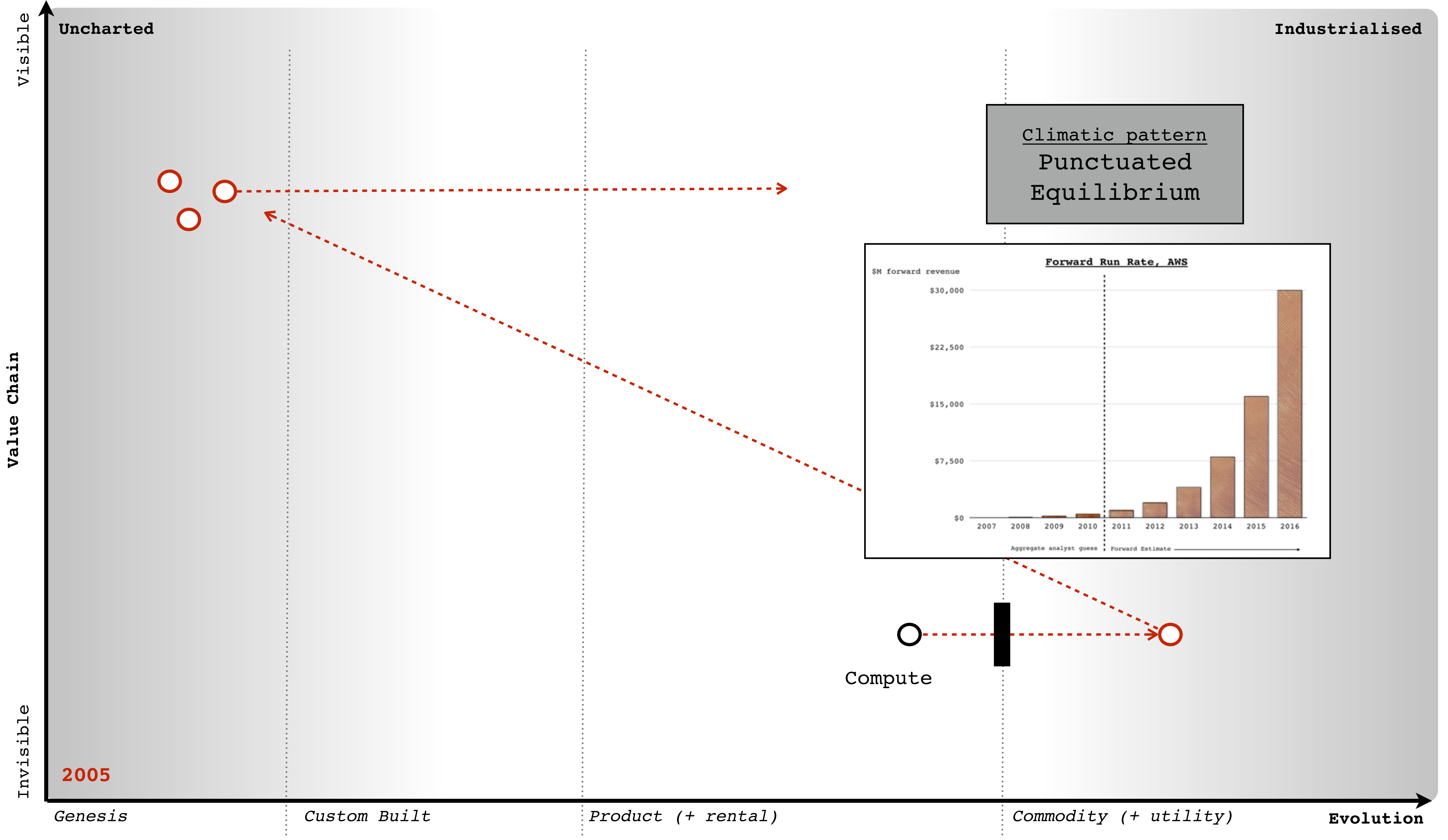


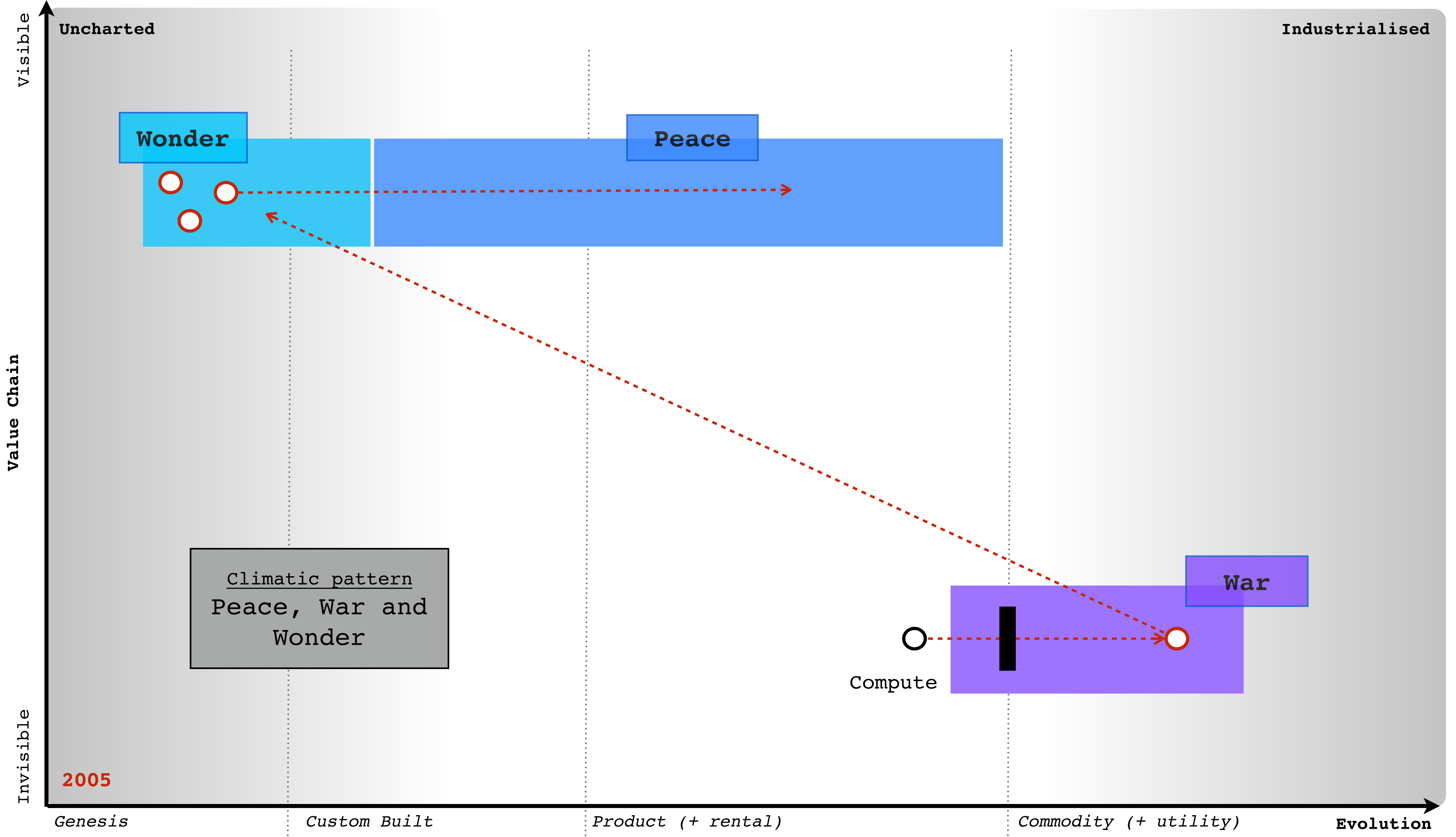
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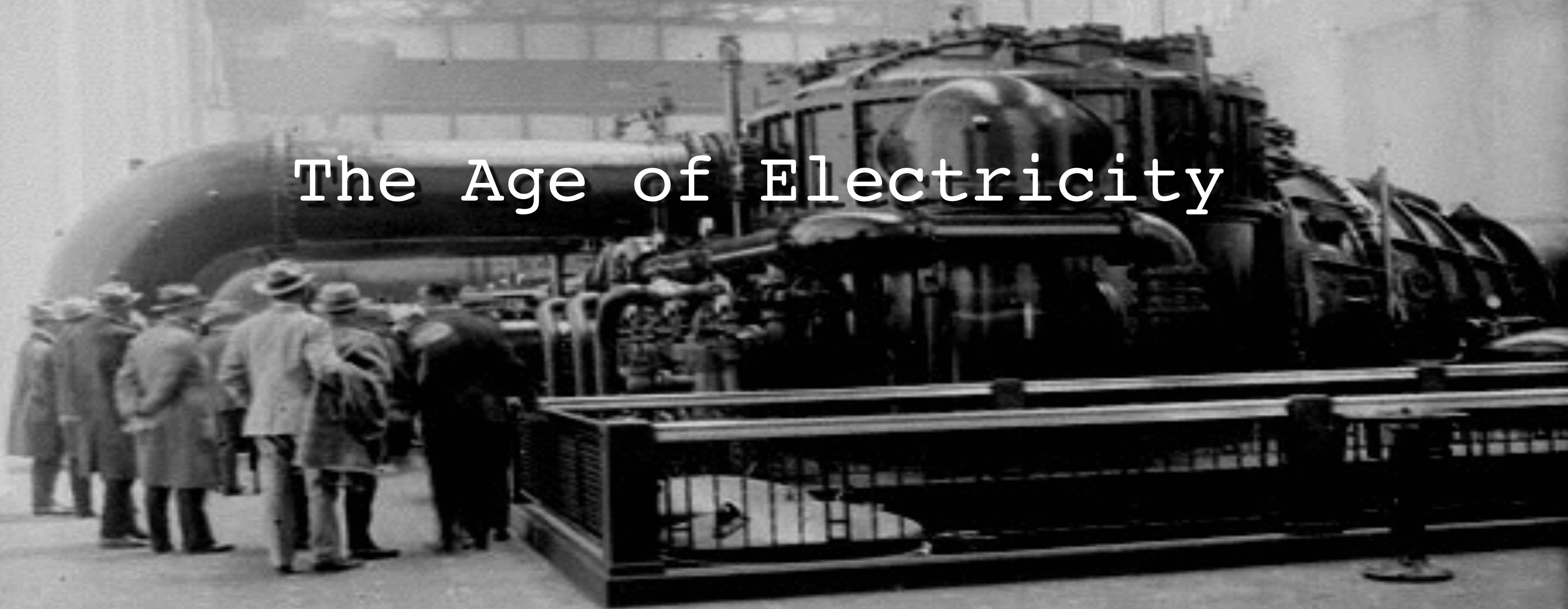




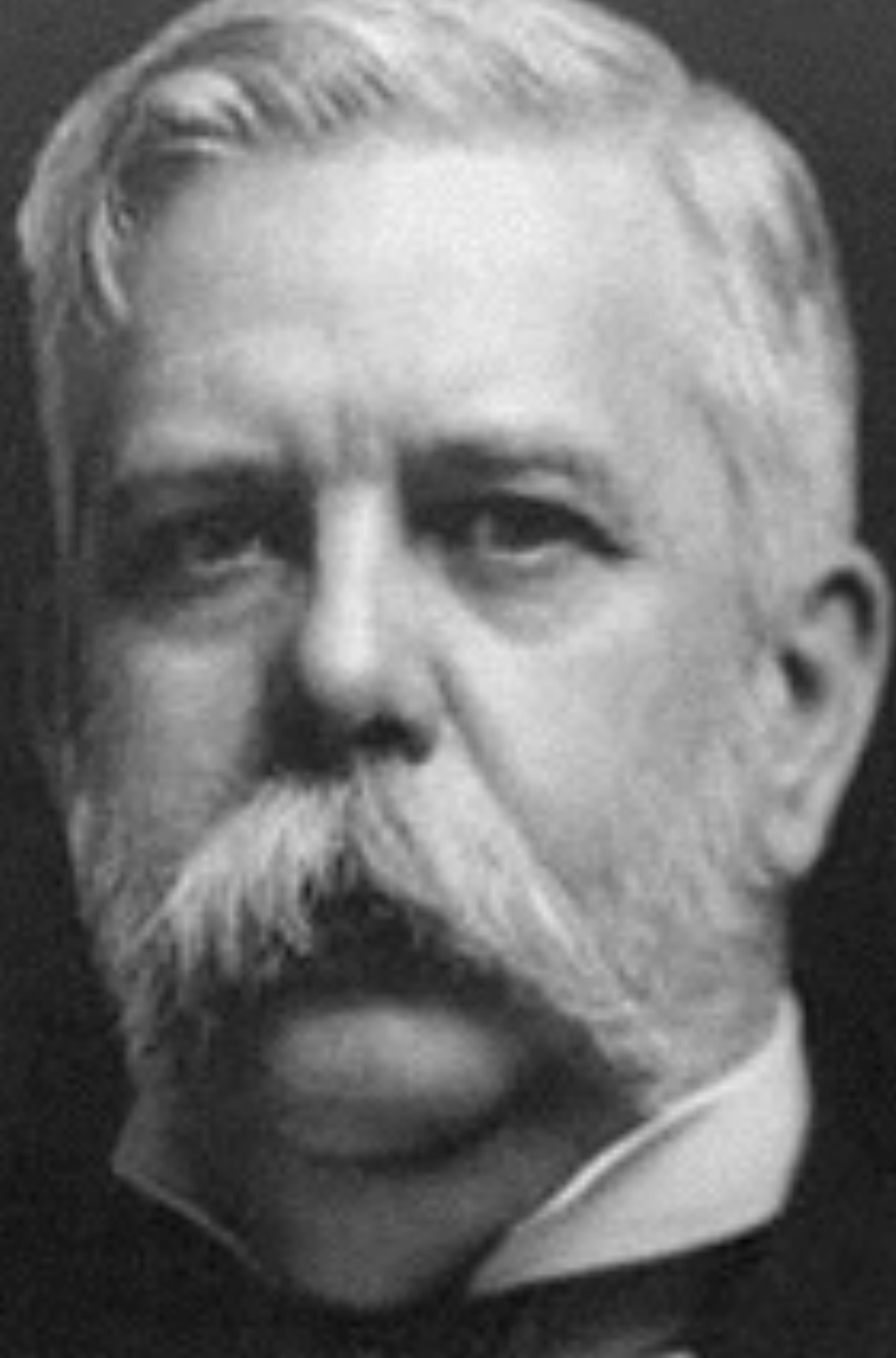




The Age of Electricity













NEW
CATECHISM
OF
ELECTRICITY,
A Practical Treatise,

BY
N. HAWKINS, M. E.,

*Author of Hand Book of Calculations for Engineers; Maximum
and Instructions for the Boiler Room; Aids to Engineers'
Examinations with Questions and Answers; Steam
Engineering Miscellany, Etc., Etc.*



RELATING TO THE DYNAMO AND MOTOR; WIRING; THE
ELECTRIC RAILWAY; ELECTRIC BELL FITTING; ELECTRIC
LAMPS; ELECTRIC ELEVATORS; ELECTRIC LIGHTING;
ELECTRO PLATING; THE TELEGRAPH AND TELE-
PHONE; ELECTRIC ELEVATOR, TABLES
AND MEASUREMENTS.

THEO. AUDEL & COMPANY, PUBLISHERS,
69 FIFTH AVENUE, COR. 13TH STREET, NEW YORK.

1898.

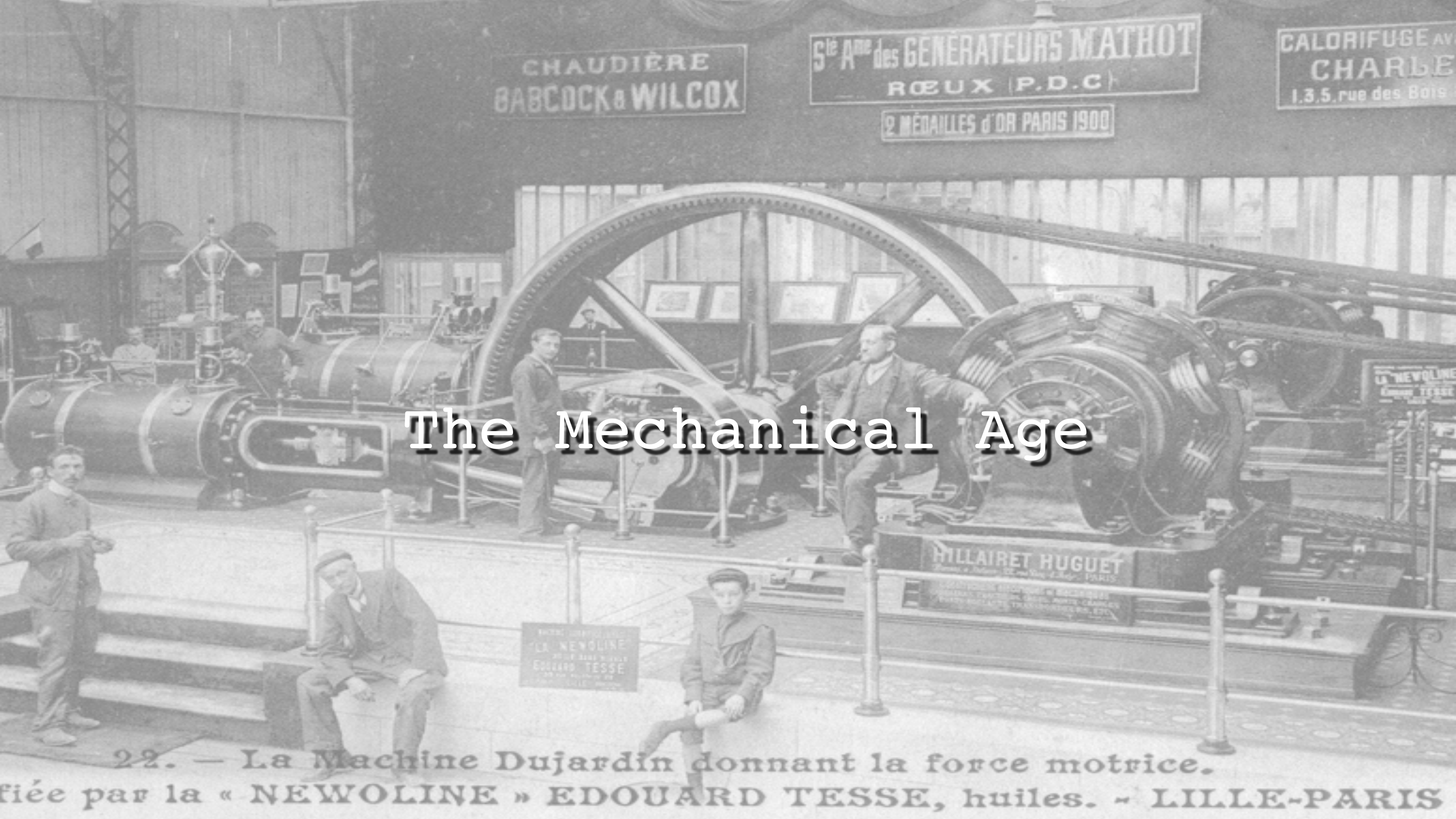
Dreams of
magic, a time
of wonder

Electricity is a powerful
constitutional tonic

American Electrotherapeutic Association, 1892







CHAUDIÈRE
BABCOCK & WILCOX

5^e ANNÉE des GÉNÉRATEURS MATHOT
RÈUX P.D.C.

2 MÉDAILLES d'OR PARIS 1900

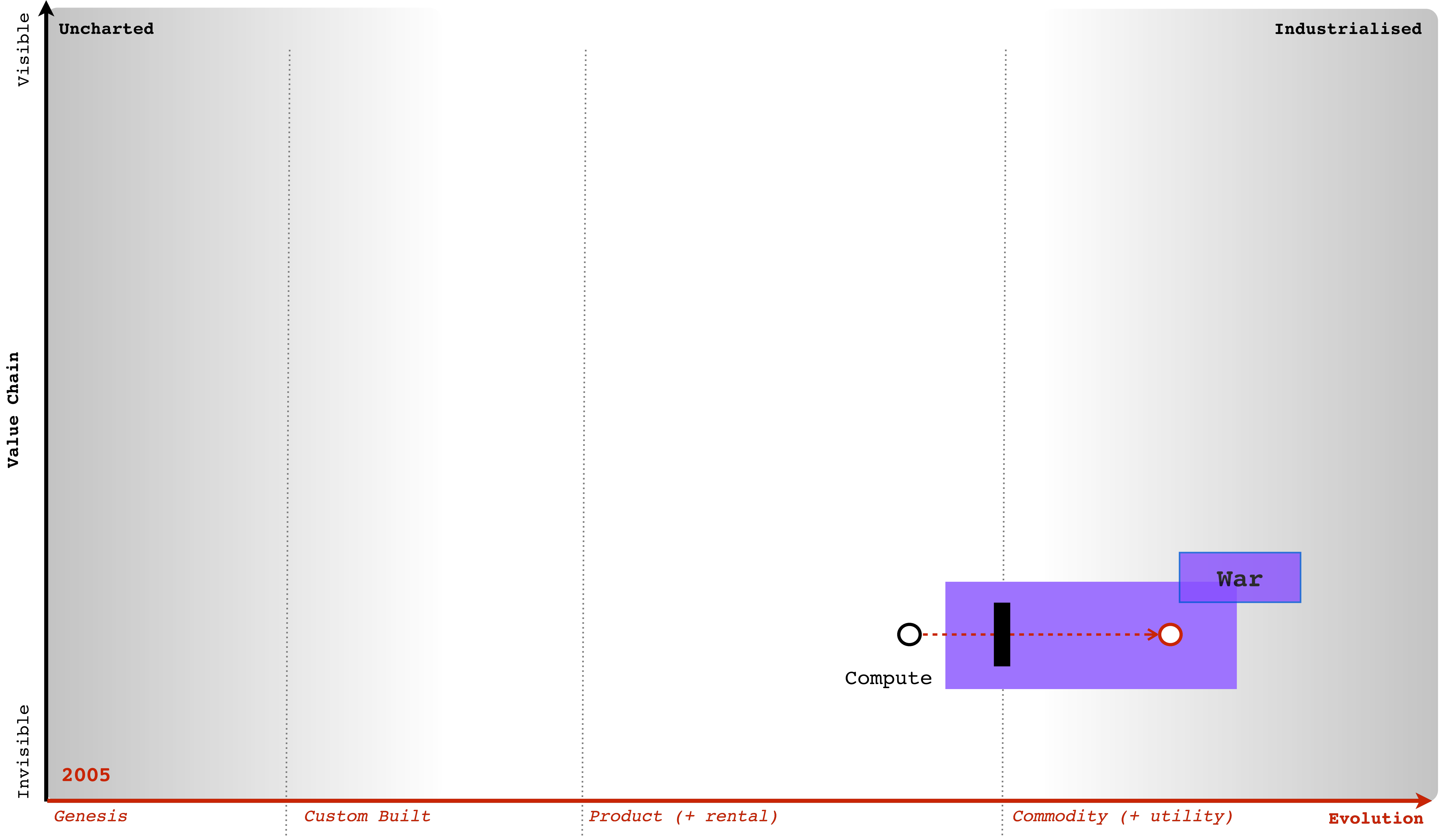
CALORIFUGE AV.
CHARLE
1.3.5. rue des Bois

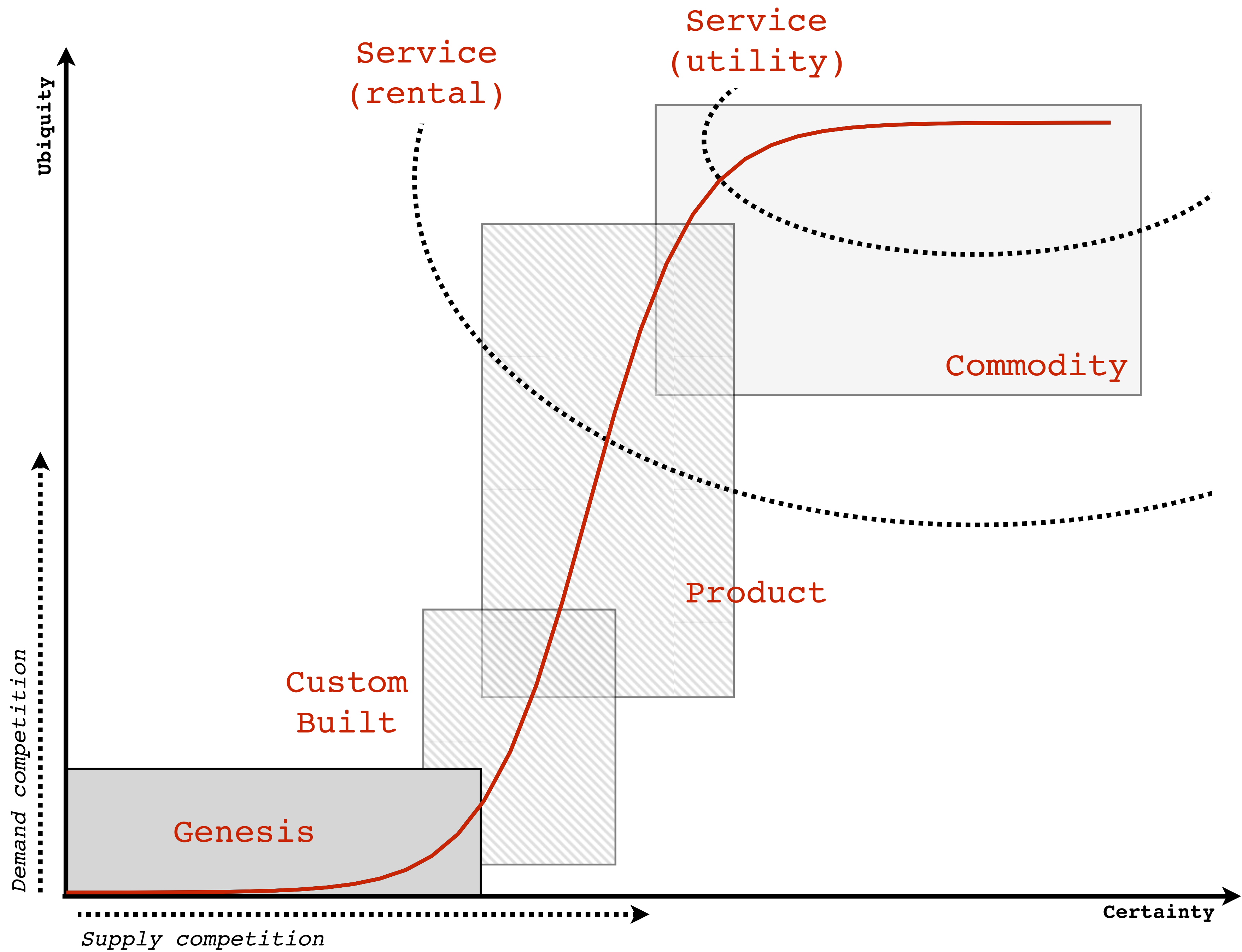
The Mechanical Age

HILLAIRET HUGUET
PARIS

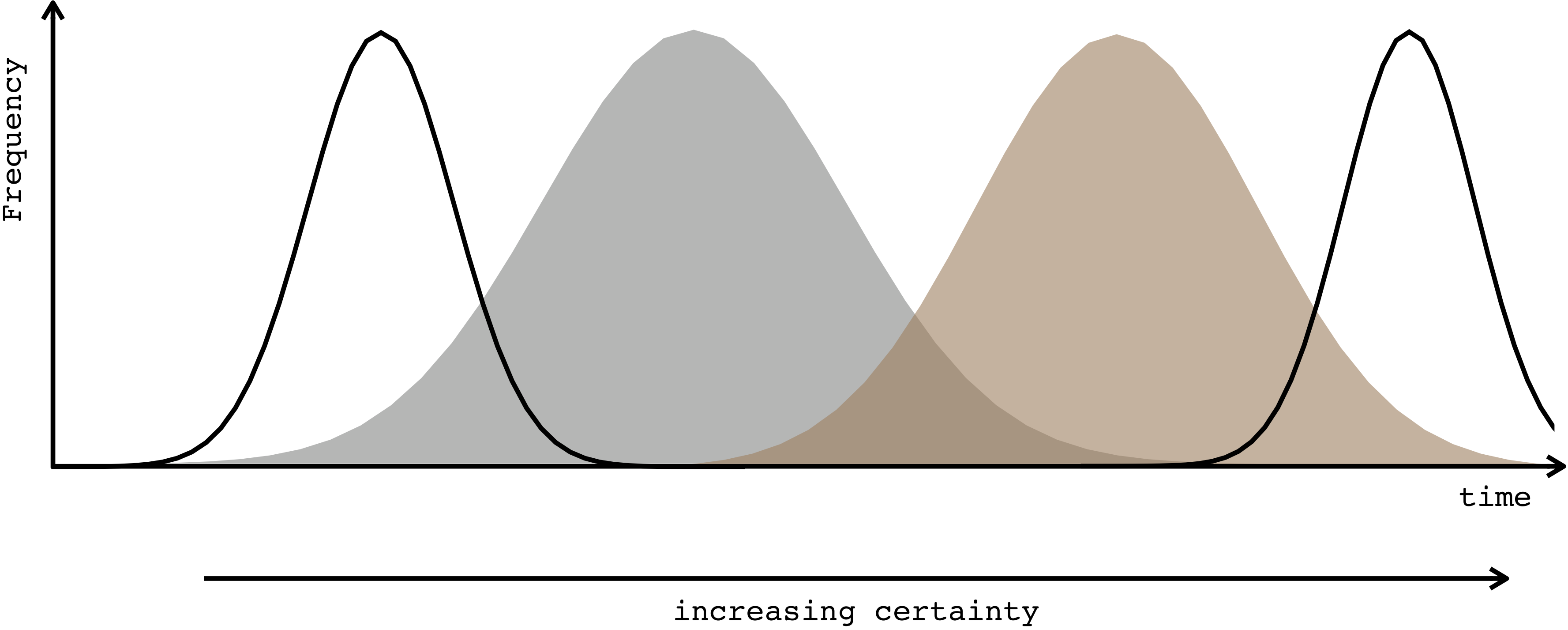
LA NEWOLINE
EDOUARD TESSE

22. — La Machine Dujardin donnant la force motrice.
fiée par la « NEWOLINE » EDOUARD TESSE, huiles. — LILLE-PARIS





Stage	I	II (key)	III (key)	IV
Publication Type	Wonder	building, construction and awareness	operation, maintenance and feature differences	use



THE TELEPHONE

and How We Use It



BELL TELEPHONE SYSTEM

HOW TO TALK ON THE TELEPHONE

When using the telephone, hold the receiver close to your ear. The receiver is the end without the cord.



Talk directly into the mouthpiece.
This way.



Not this way.



Not this way.

Speak in a natural, clear voice.

You do not have to shout. Speak as though the other person were in the same room.



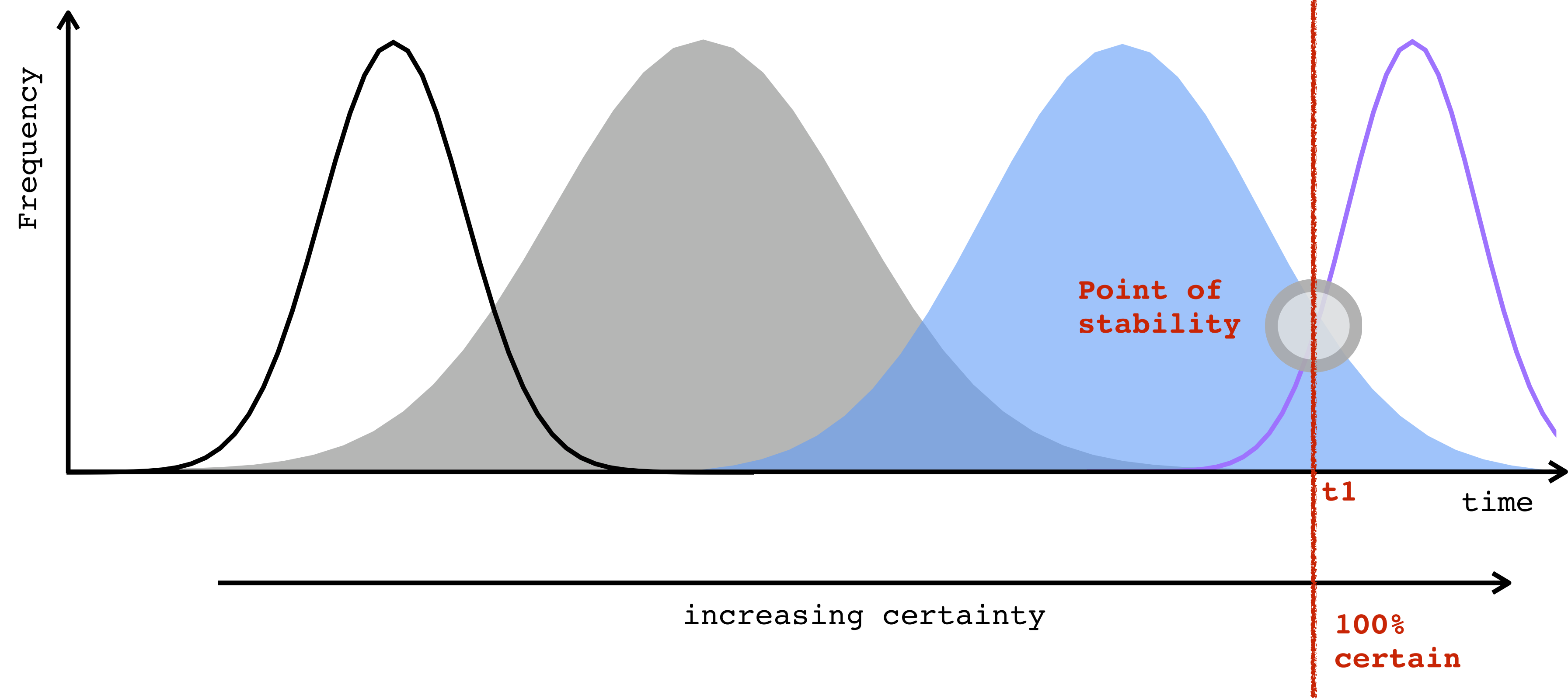
This Room Is Equipped With

Edison Electric Light.

Do not attempt to light with
match. Simply turn key
on wall by the door.

The use of Electricity for lighting is in no way harmful
to health, nor does it affect the soundness of sleep.

				Peace	War
Stage	I	II (key)	III (key)	IV	
Publication Type	Wonder	building, construction and awareness	operation, maintenance and feature differences	use	



Points of Change	2014
	Now
IaaS	War
PaaS	War
SaaS	War
Big Data	
Robotics	
Currency (blockchain)	
Sensor as a Service	
IoT	
Immersive	
3D printing	
Social Change	
GMO	
Genetic Engineering	
Intelligent Agents	
Printed Electronics	
Hybrid Printing	
Bio Manufacturing	
Epigenetics	
Materials	

2015-2020	2020-2025	2025-2030
Near		
War		
	War	
	War	
	War	
		War
		War
		War
		War

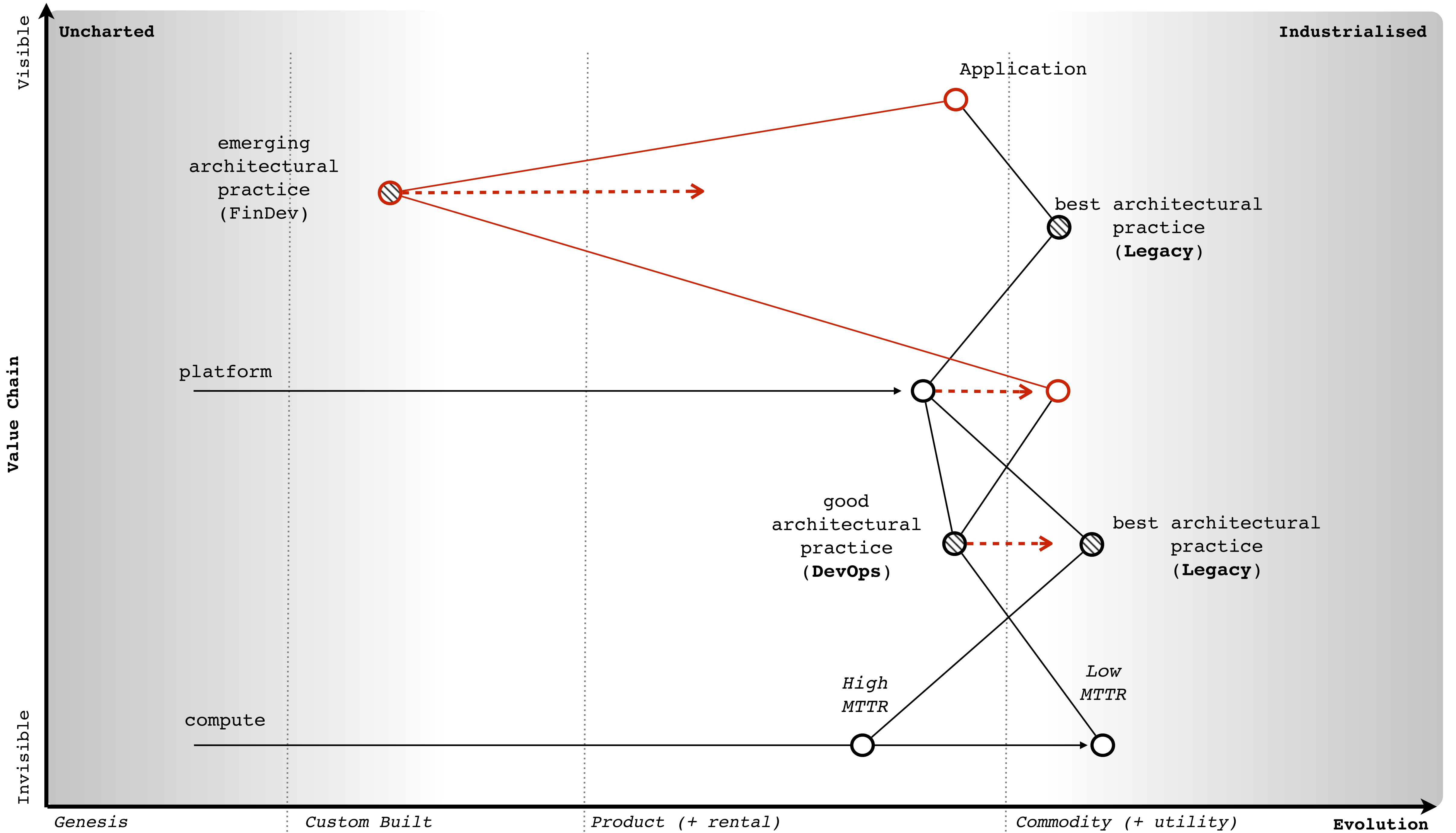
2030-2035	2035-2040	2040-2045	2045-2050
Far			
War			
War			
	War		
	War		
	War		
	War		

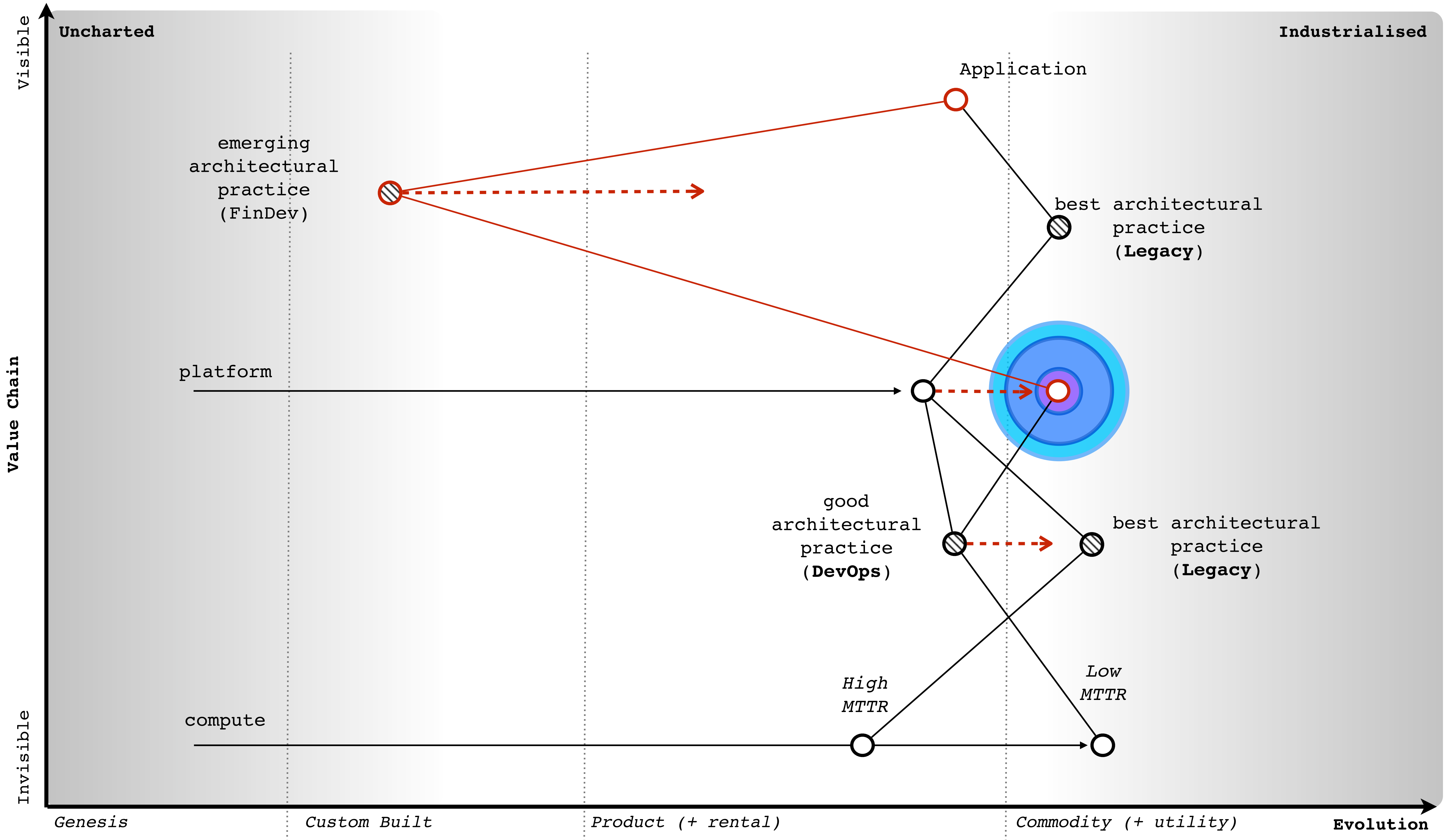


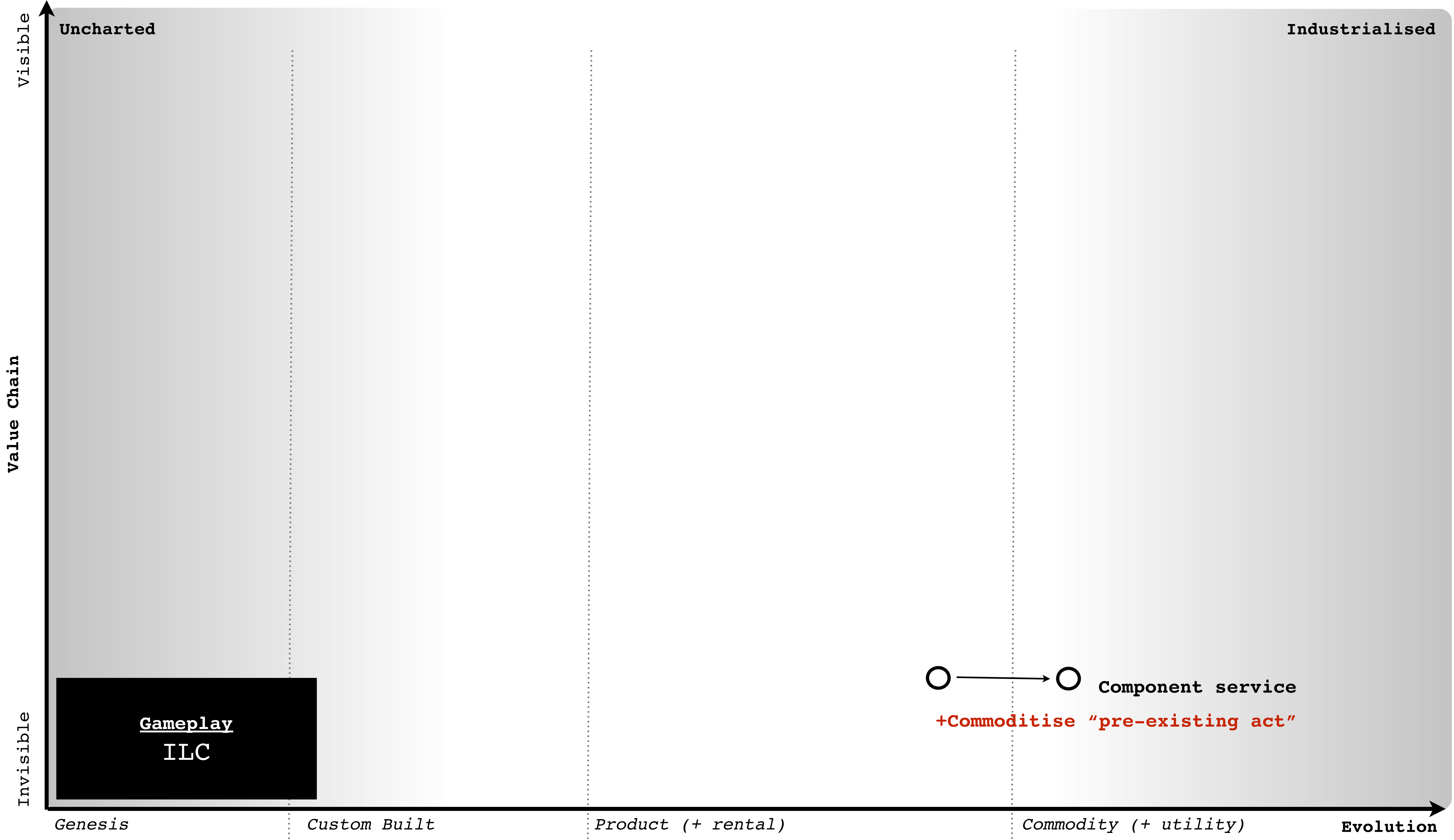
Points of Change	2014	2015-2020	2020-2025	2025-2030	2030-2035	2035-2040	2040-2045	2045-2050
	Now	Near			Far			
IaaS	War							
PaaS	War							
SaaS	War							
Big Data		War						
Robotics			War					
Currency (blockchain)			War					
Sensor as a Service			War					
IoT				War				
Immersive				War				
3D printing				War				
Social Change				War				
GMO				War				
Genetic Engineering				War				
Intelligent Agents					War			
Printed Electronics					War			
Hybrid Printing						War		
Bio Manufacturing						War		
Epigenetics						War		
Materials						War		

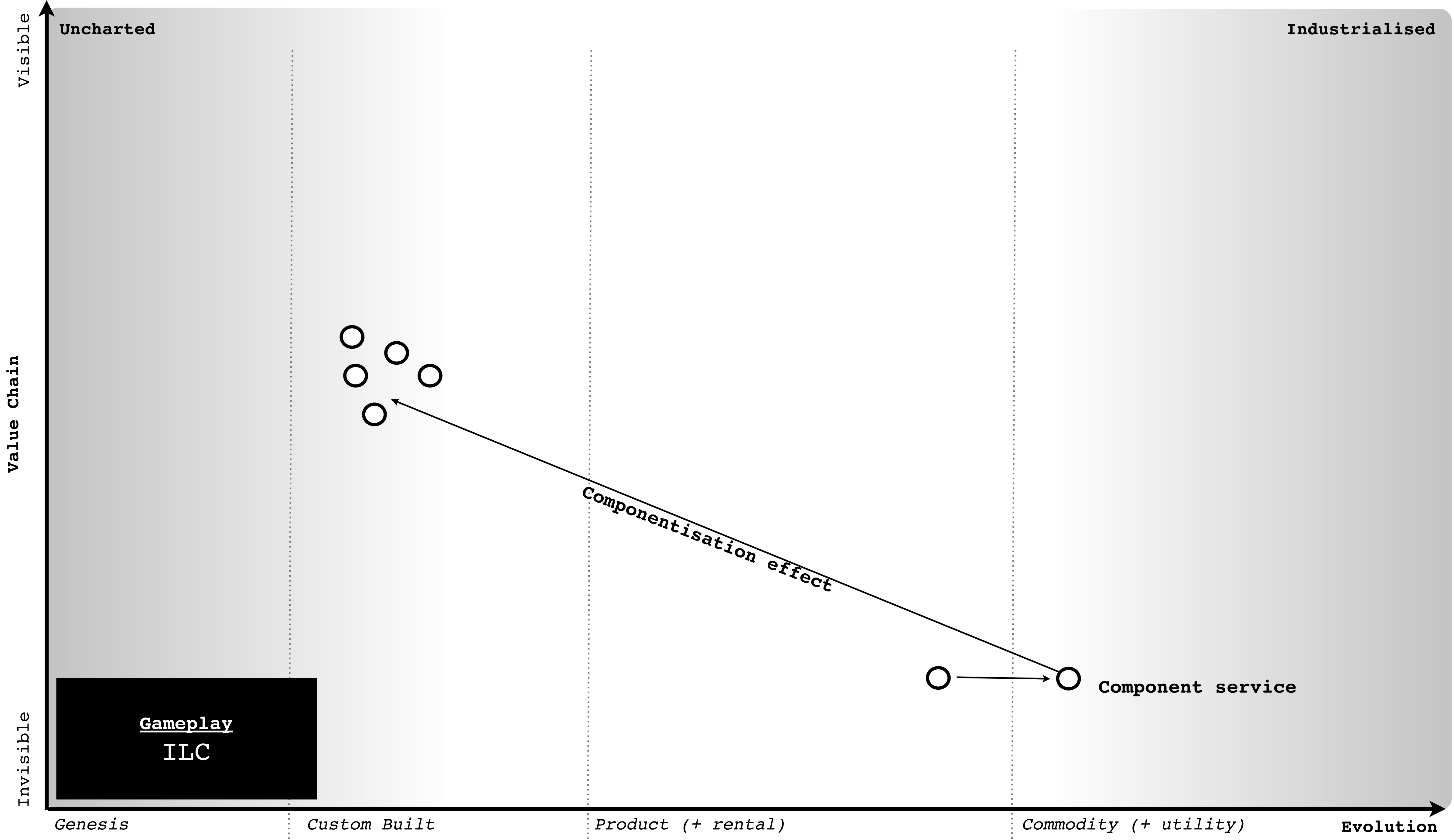


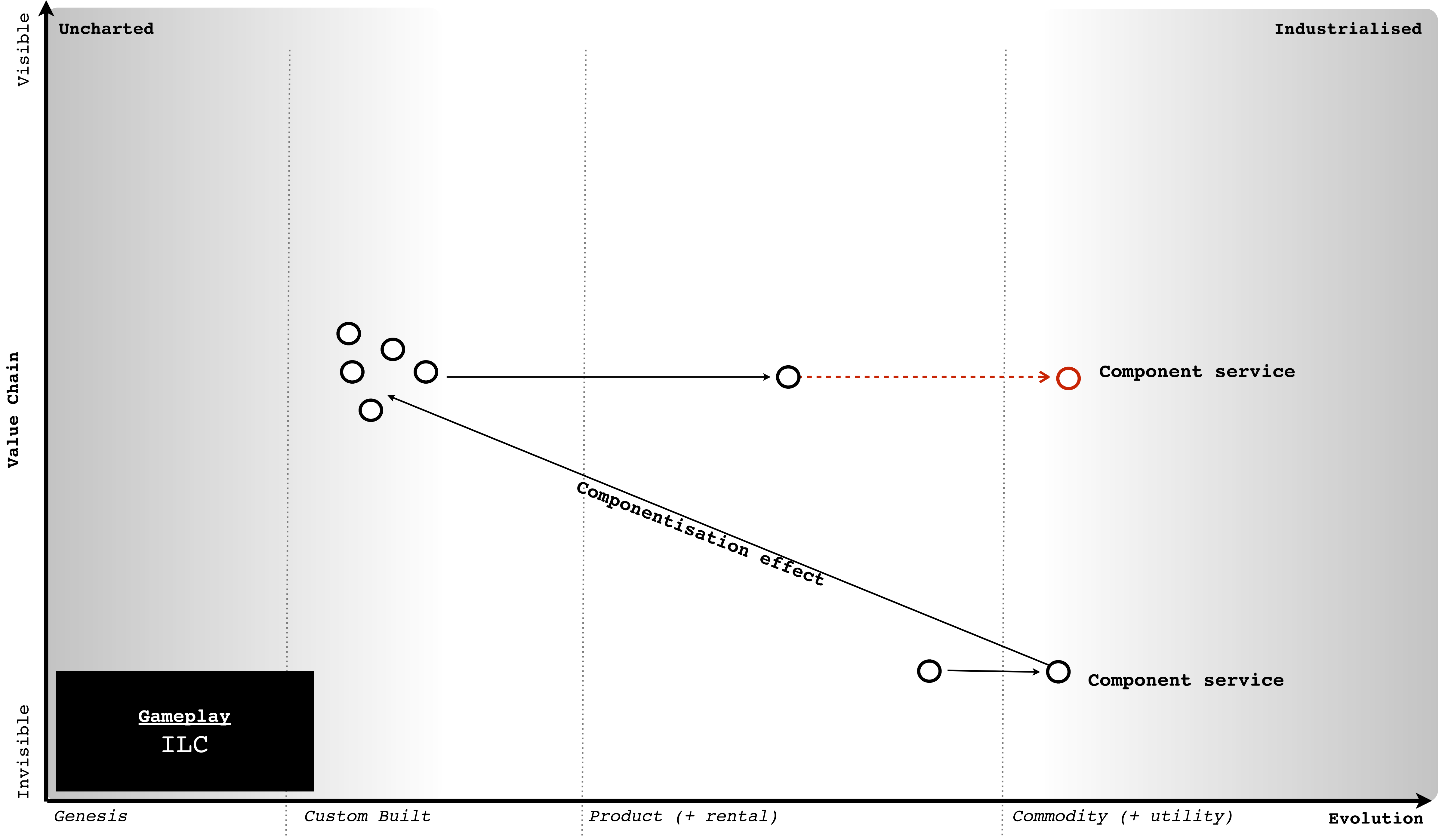
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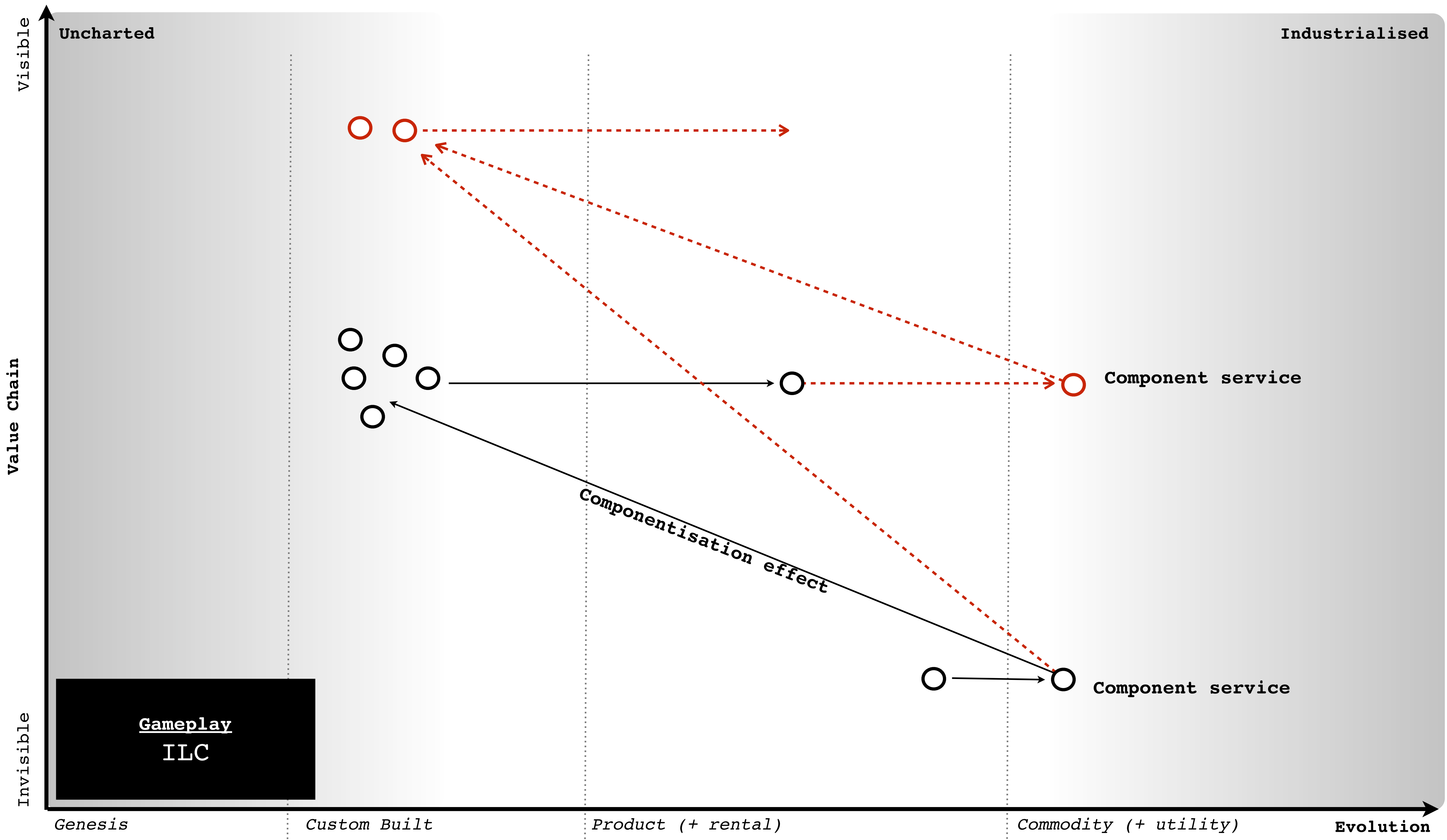


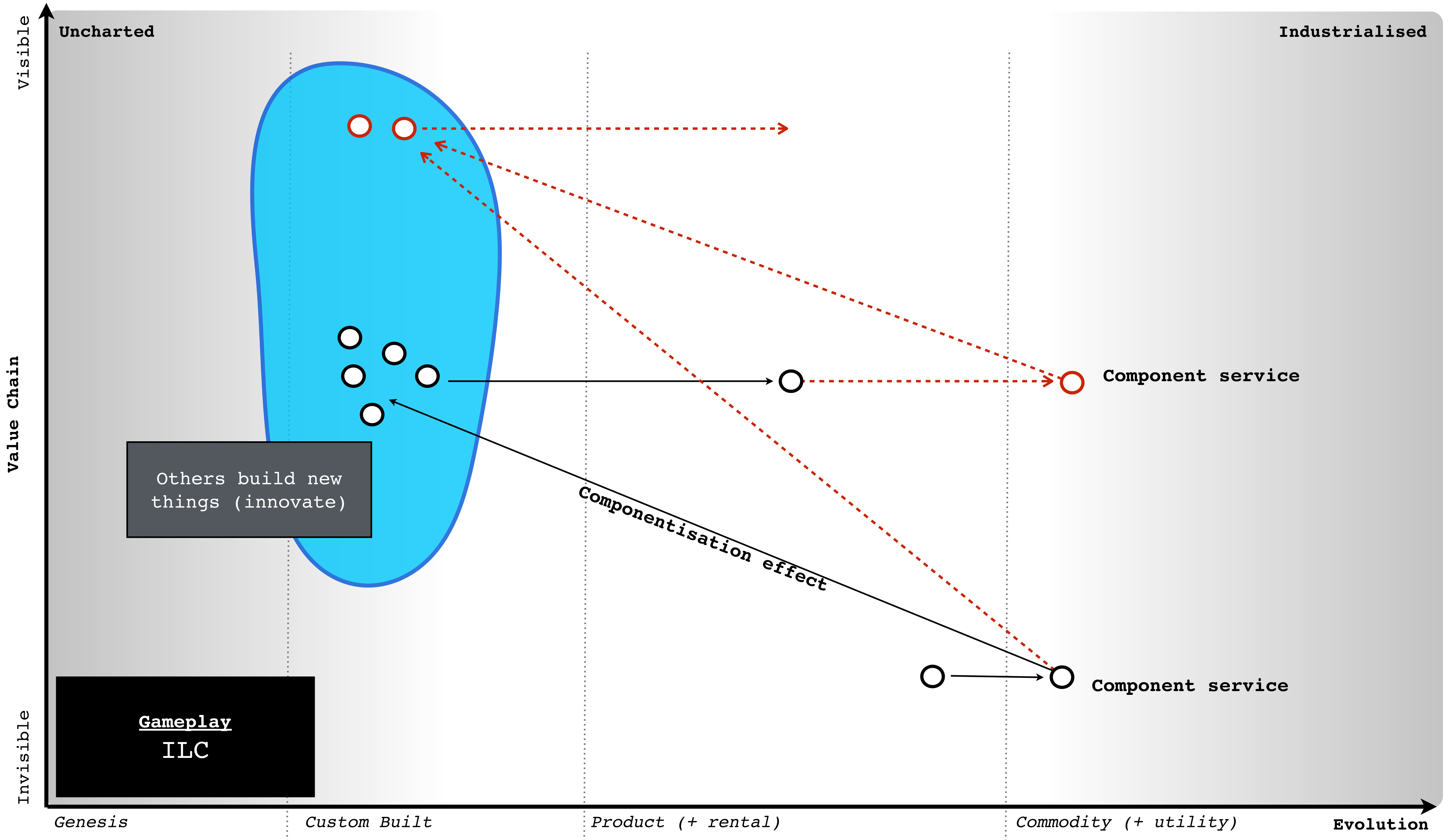


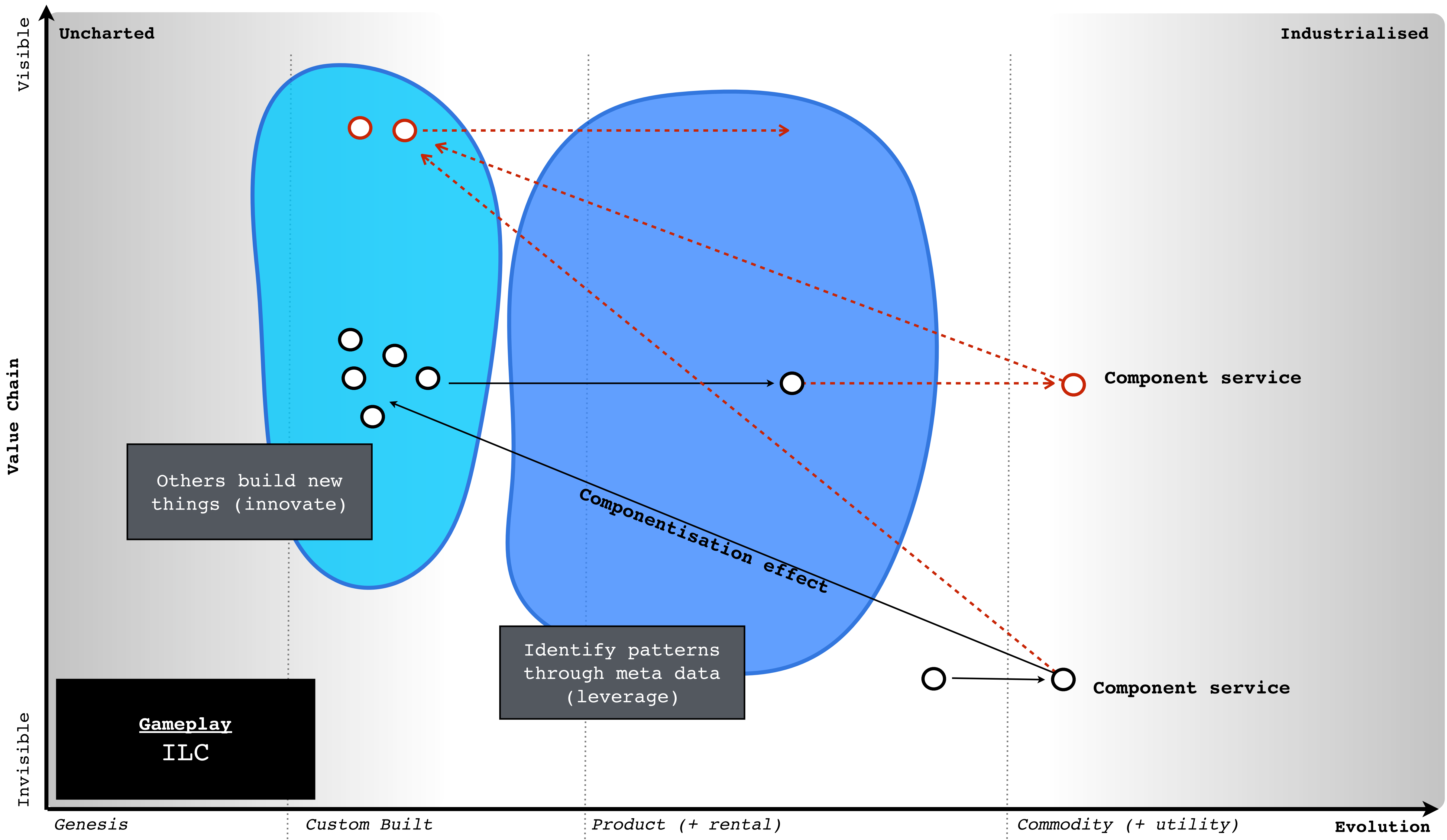


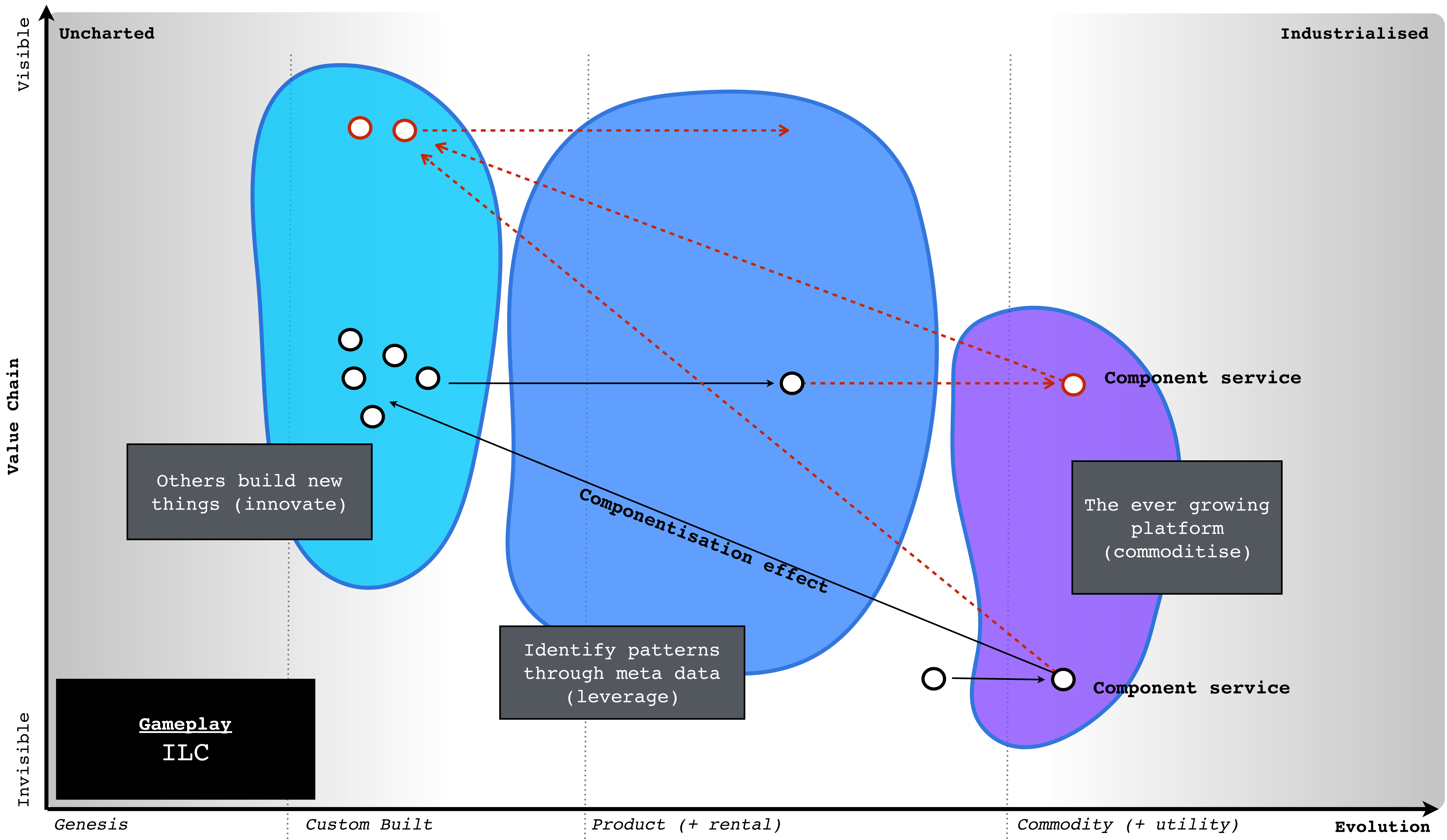


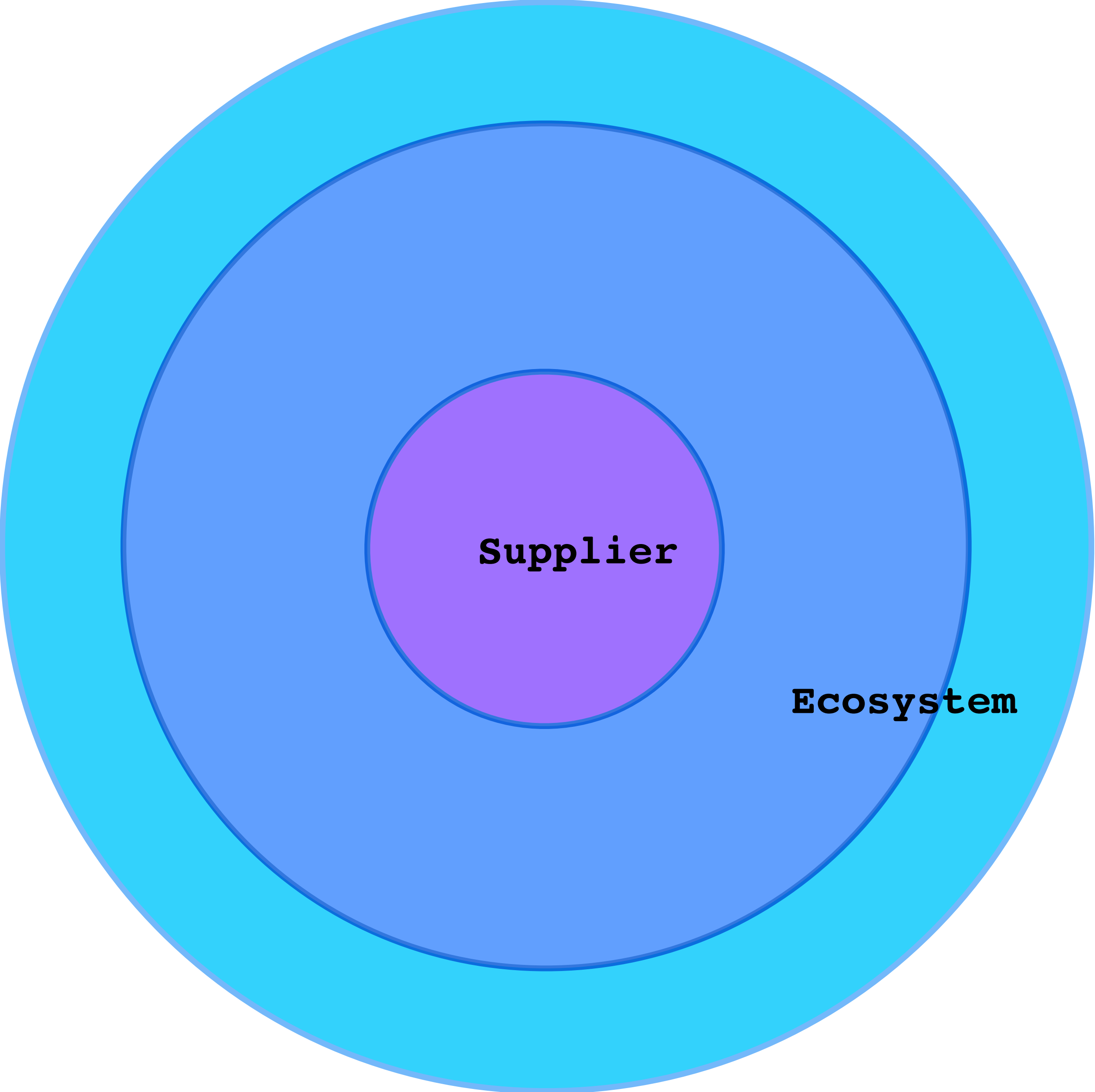


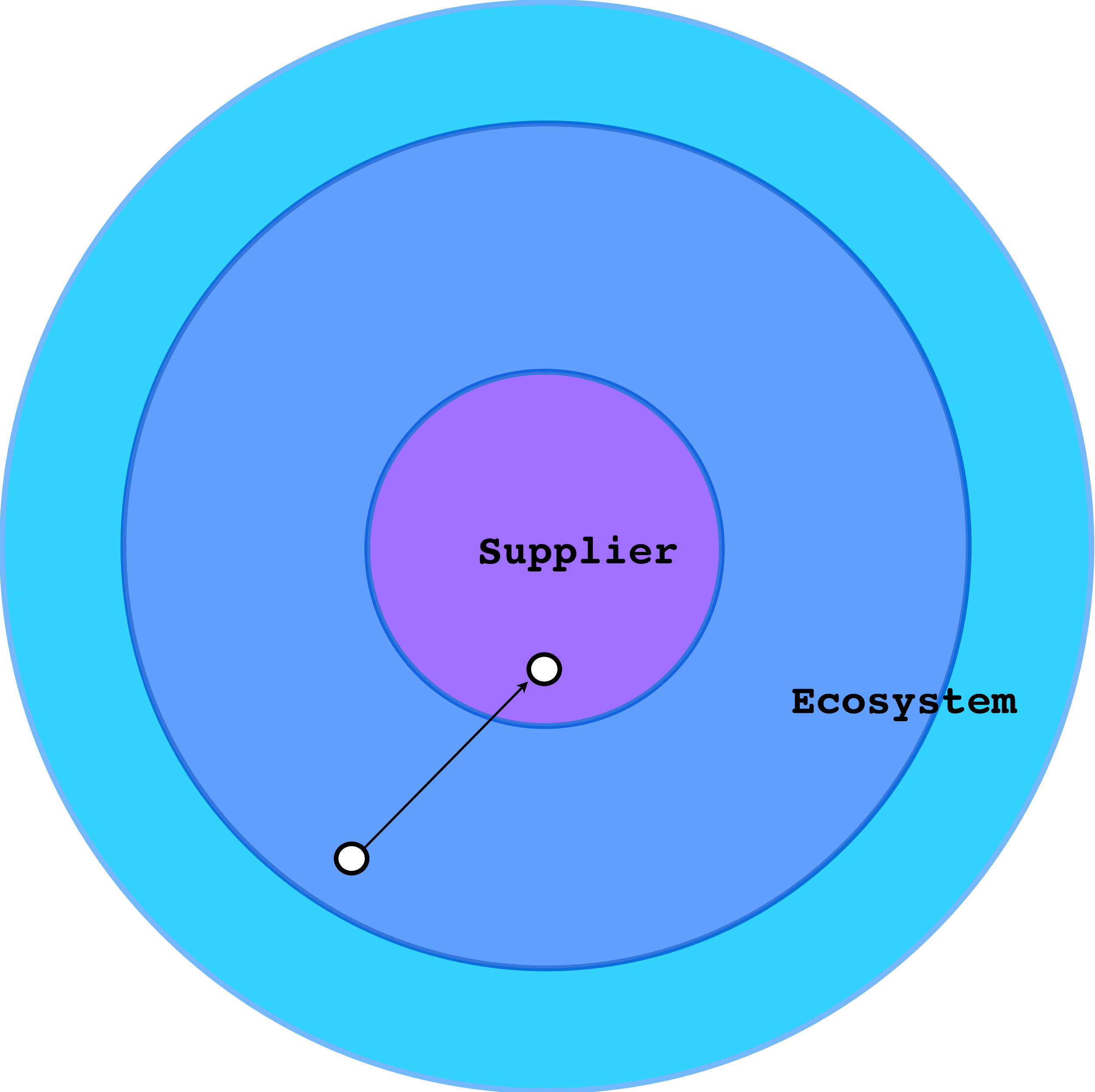


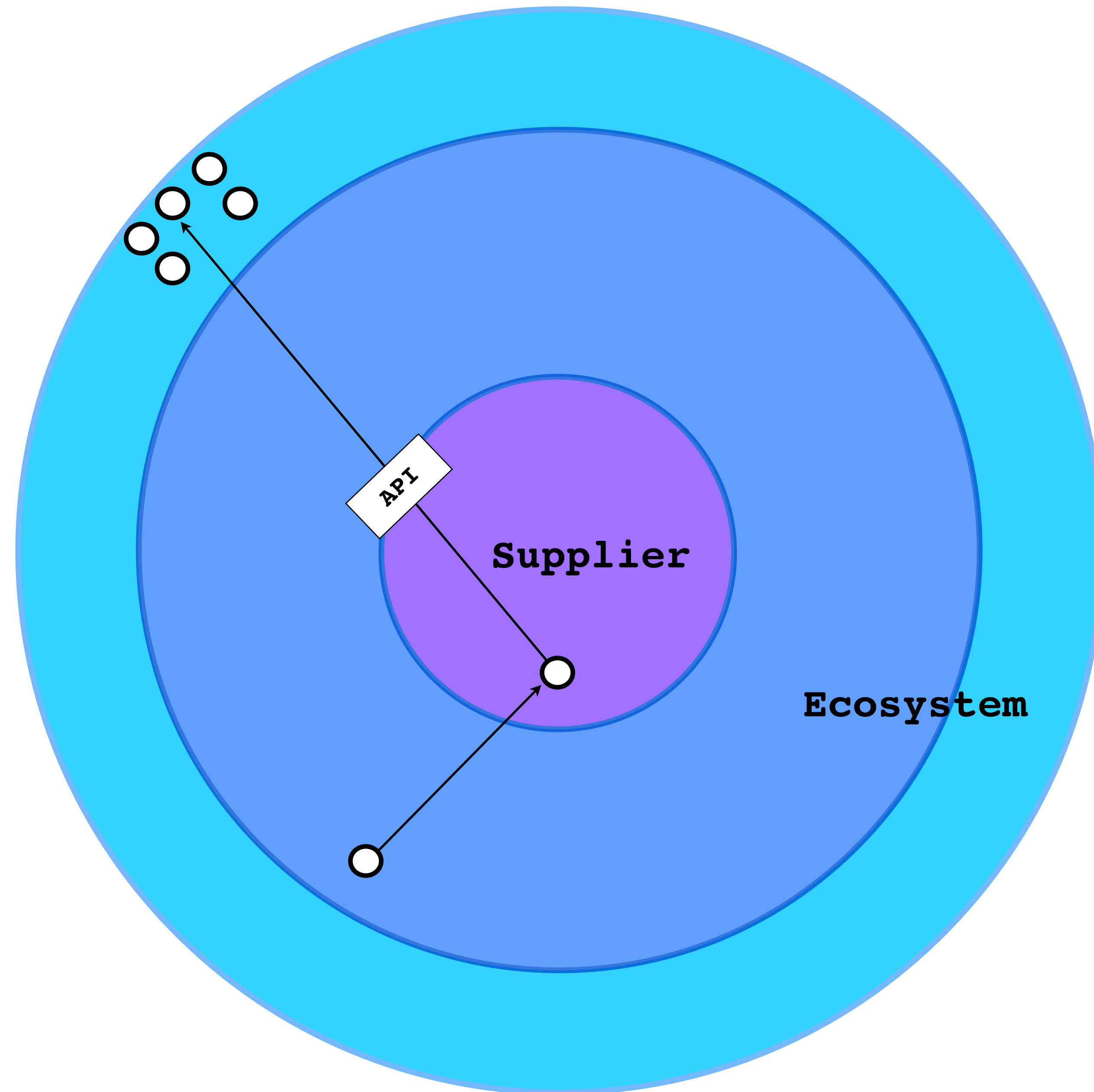


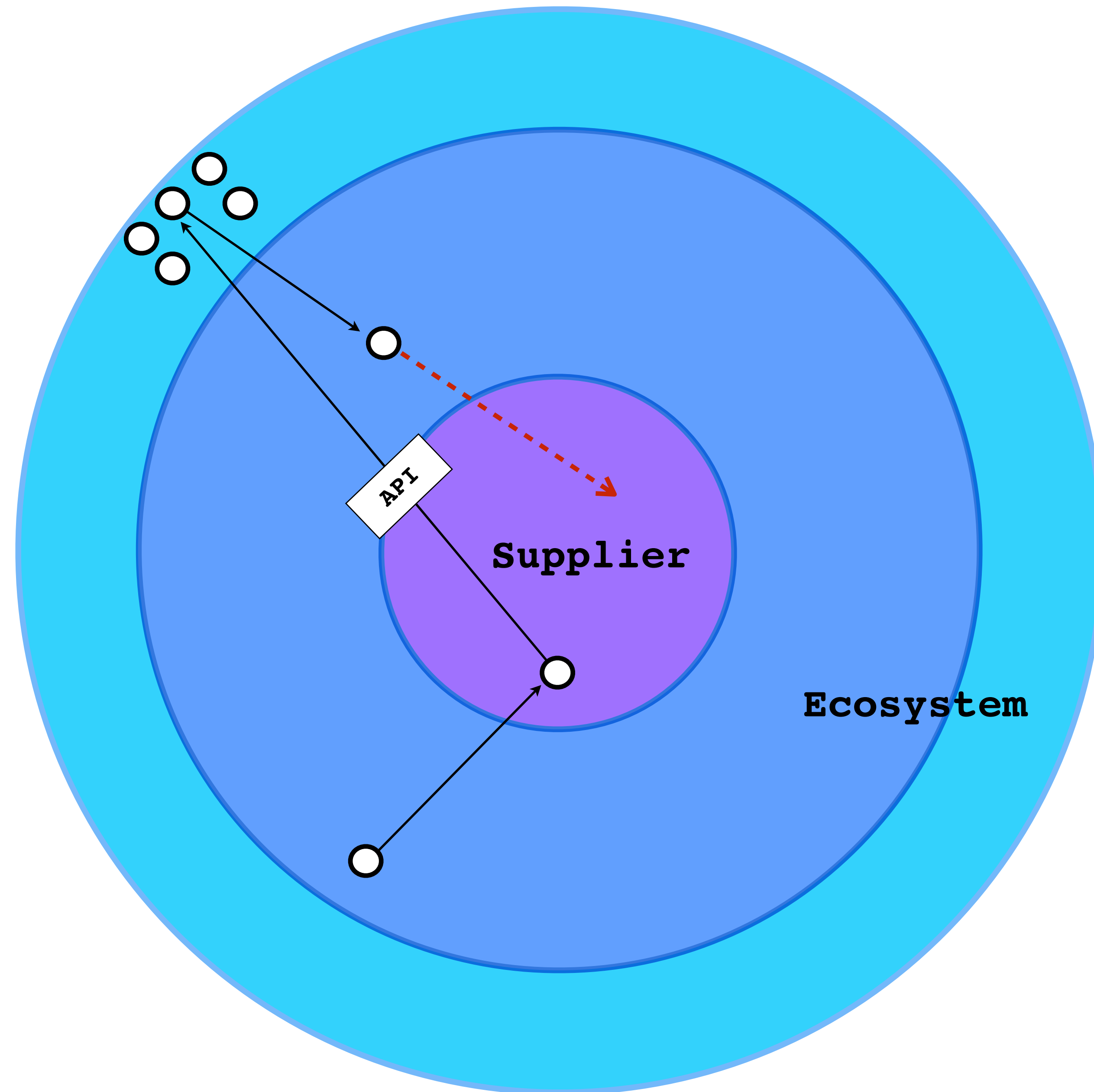


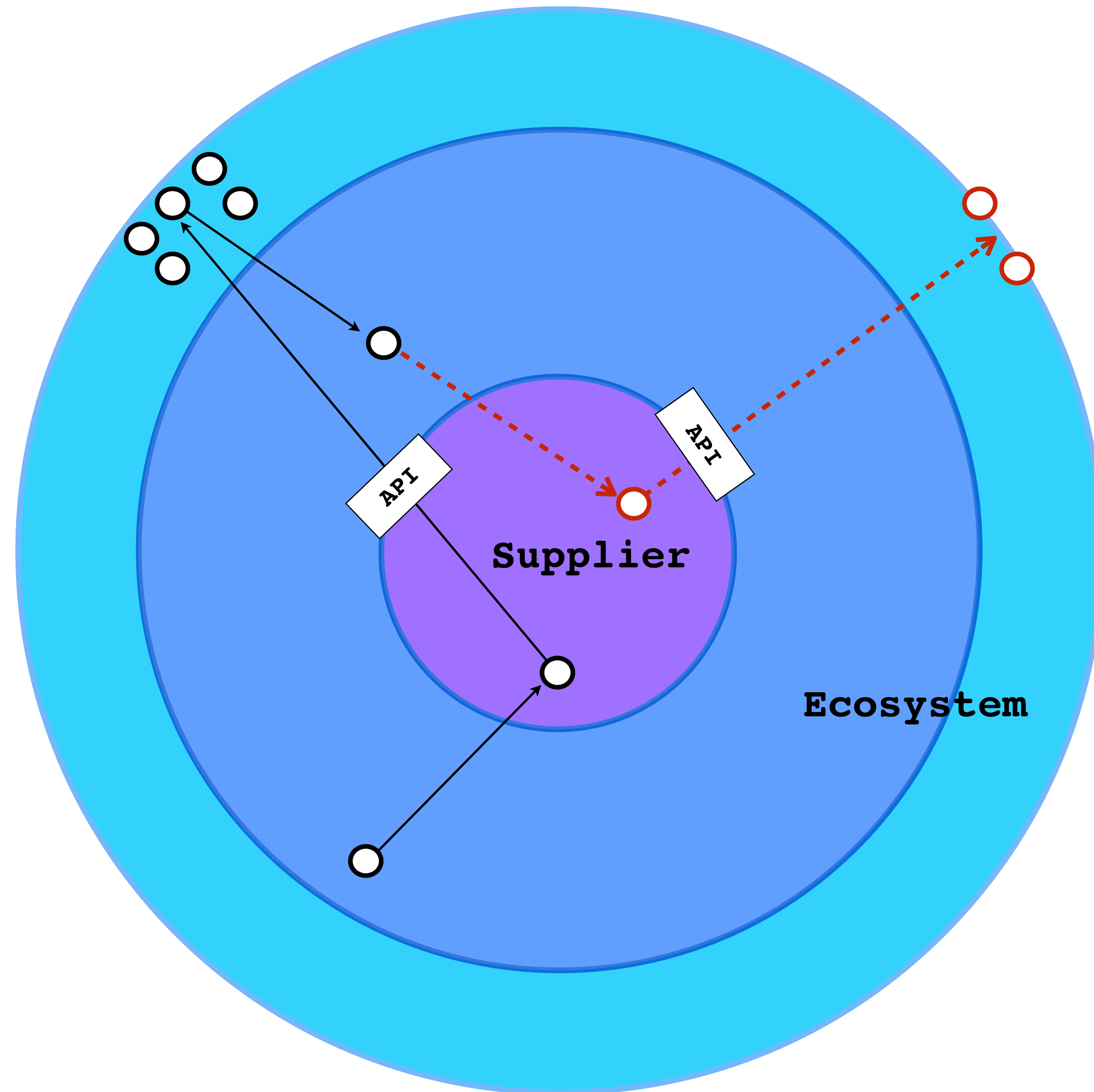


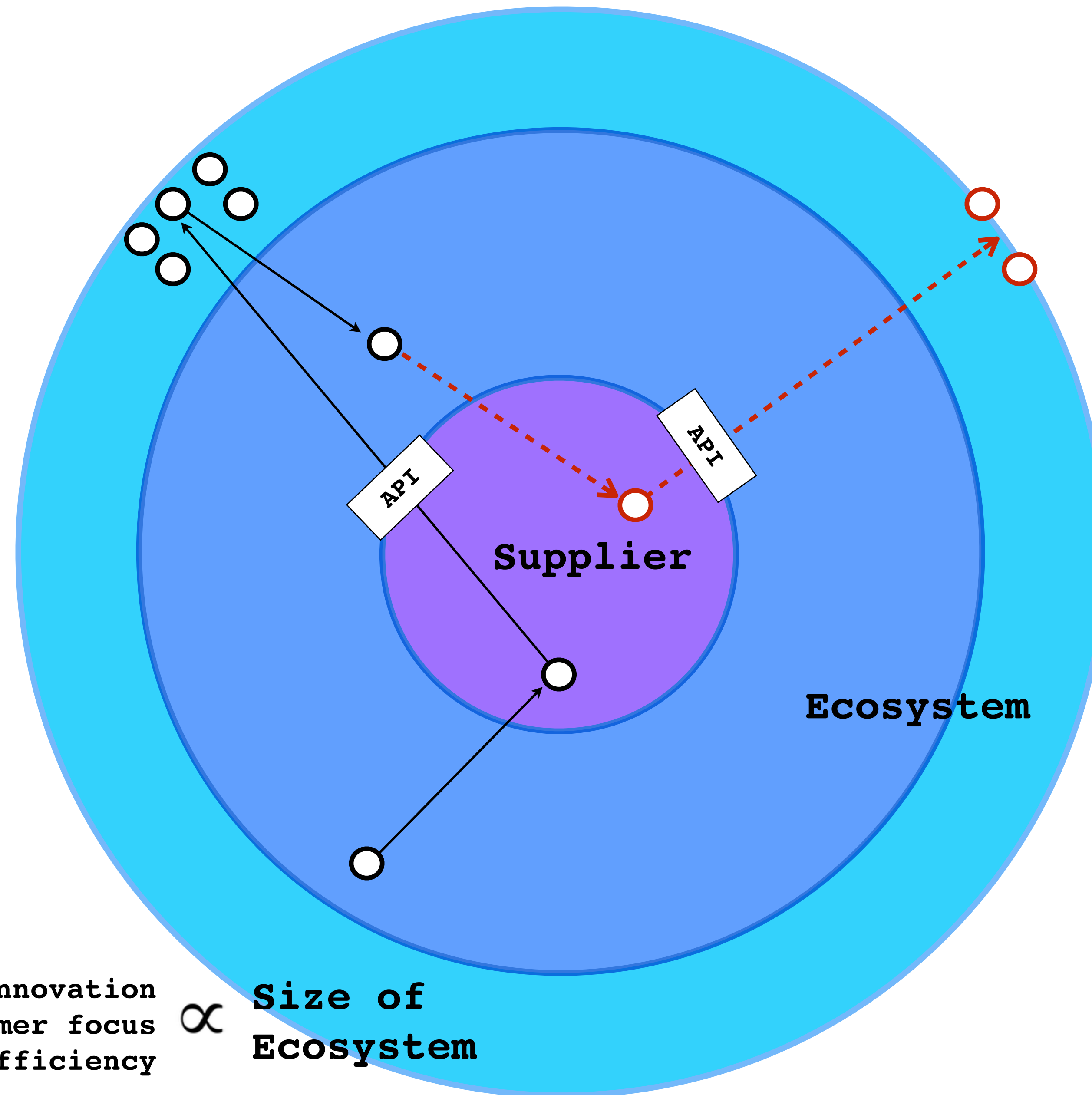




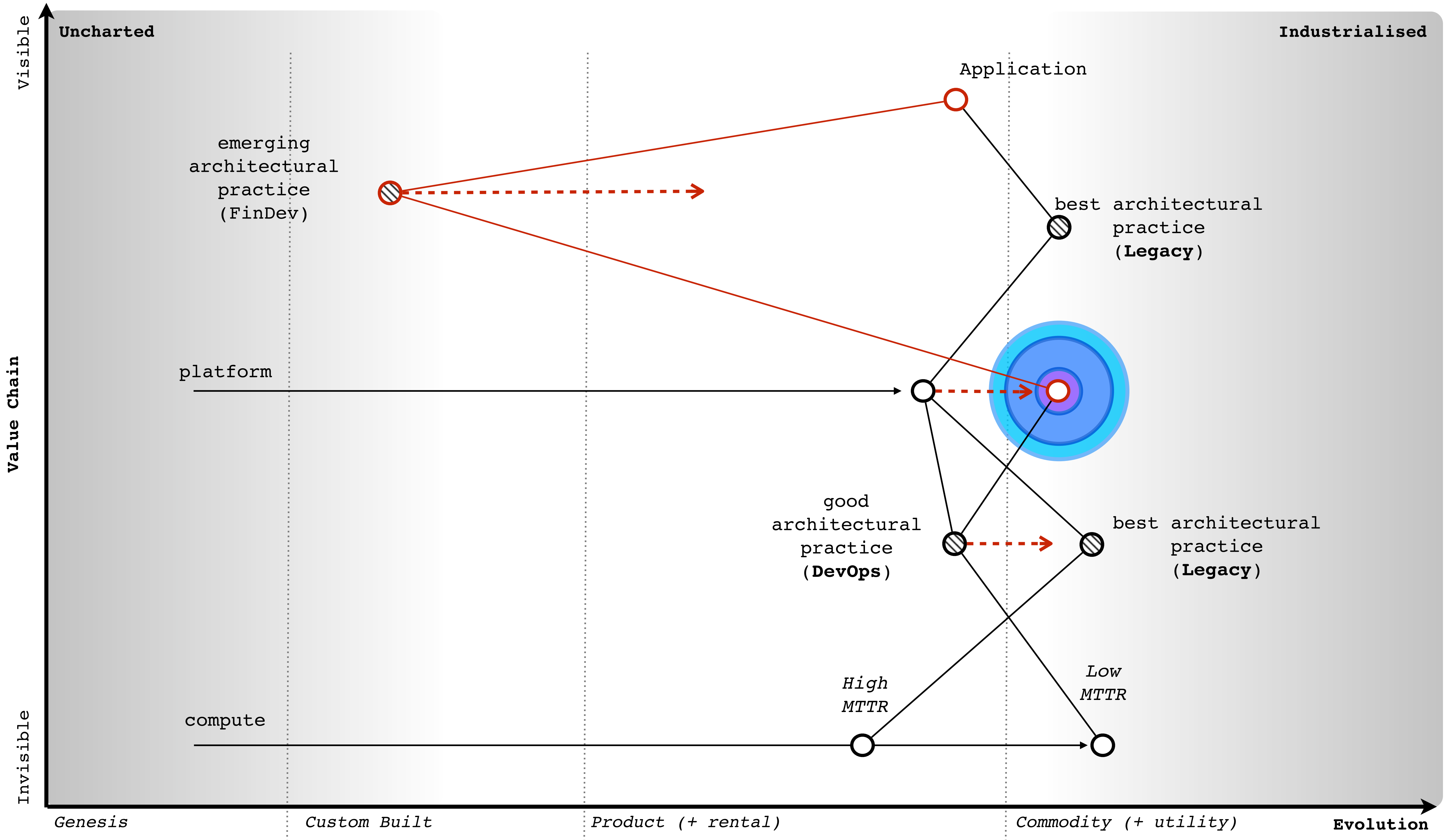




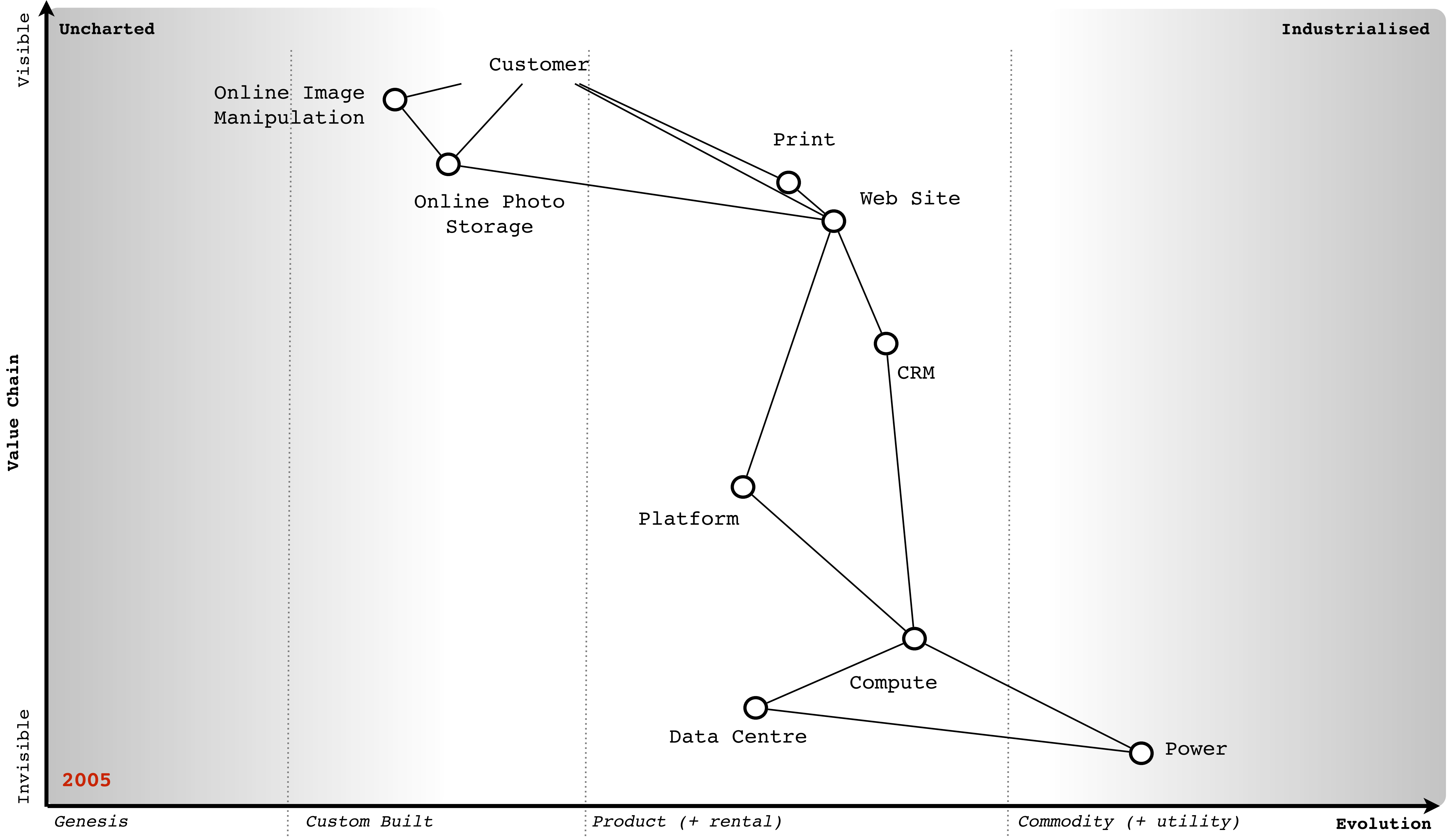




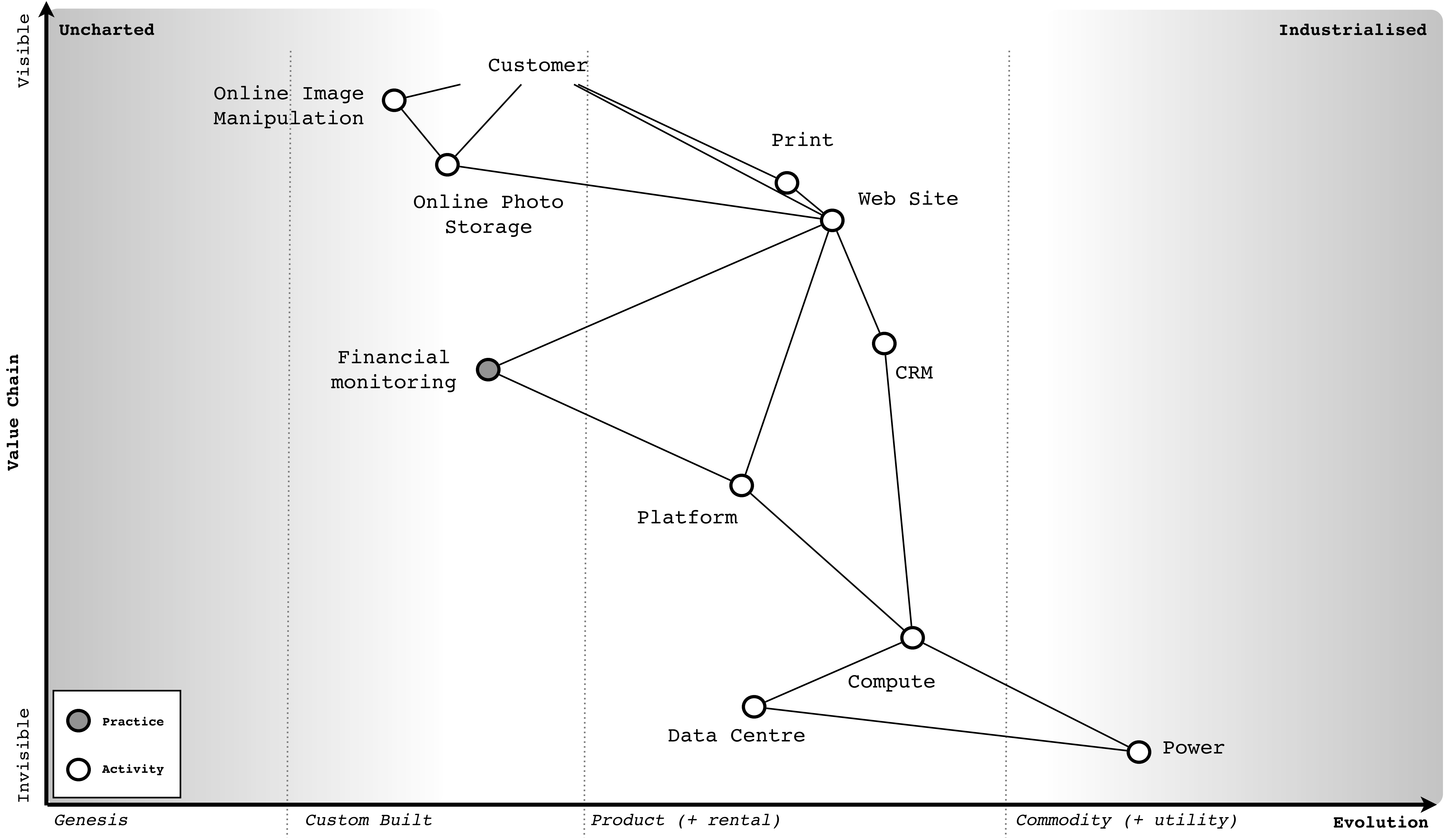
(Apparent) rate of innovation
customer focus
efficiency \propto Size of
Ecosystem



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Brexit



Stage of Evolution Type	I	II	III	IV
	Genesis	Custom	Product + Rental Services	Commodity + Utility Services
Activities				
Practices	Novel	Emerging	Good	Best
Data	Unmodelled	Divergent	Convergent	Modelled
Knowledge	Concept	Hypothesis	Theory	Accepted

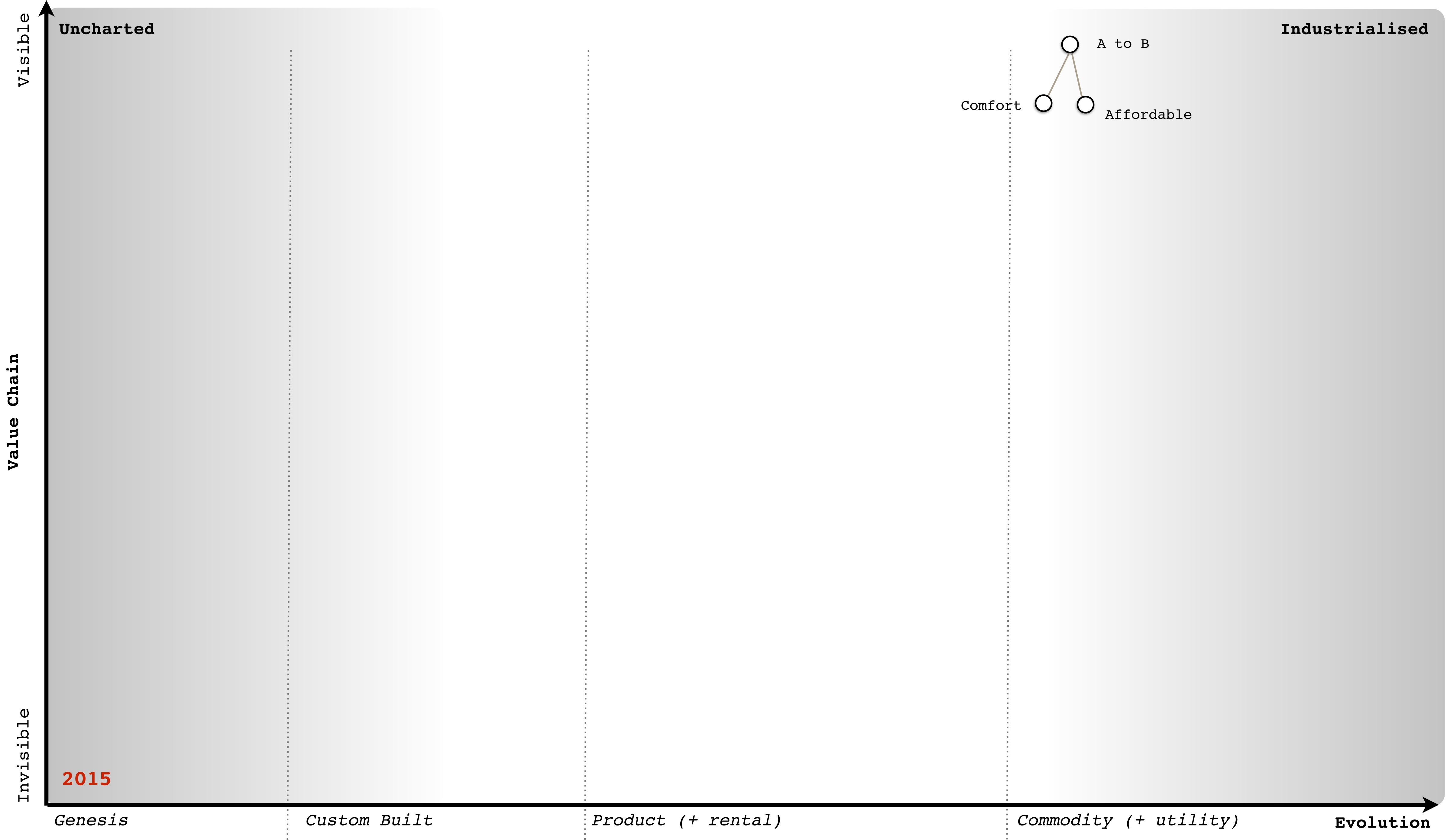


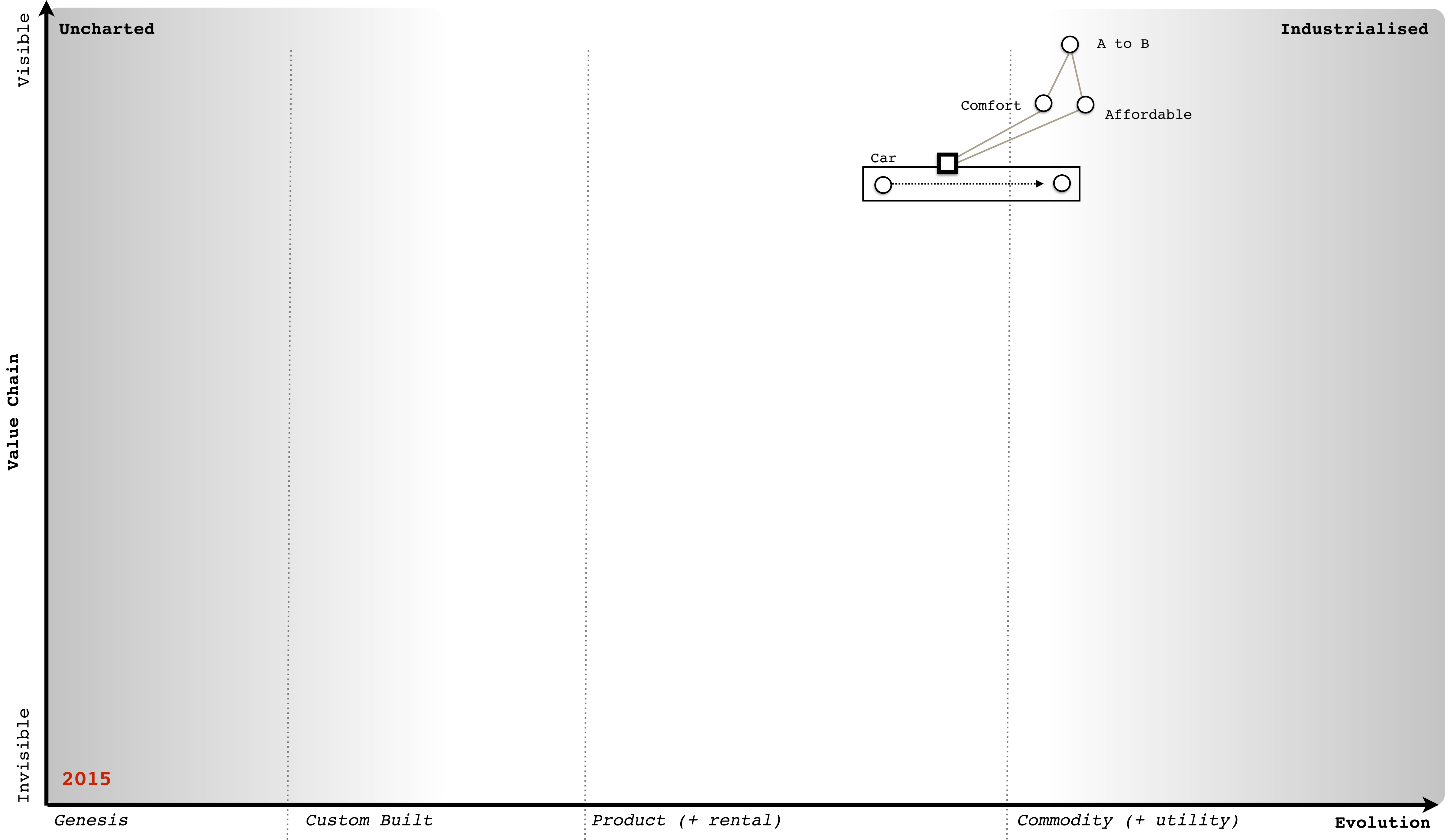
Stage	I	II	III	IV
Activity	Genesis	Custom	Product (+rental)	Commodity (+utility)
Data	Unmodelled	Divergent	Convergent	Modelled
Practice	Novel	Emerging	Good	Best
Knowledge	Concept	Hypothesis	Theory	Universally Accepted
Characteristics				
Ubiquity	Rare	Slowly increasing	Rapidly increasing	Widespread in the applicable market / ecosystem
Certainty	Poorly understood / exploring the unknown	Rapid increases in learning / discovery becomes refining	Rapid increases in use / increasing fit for purpose	Commonly understood (in terms of use)
Publication Types	Describe the wonder of the thing / the discovery of some marvel / a new land / an unknown frontier	Focused on build / construct / awareness and learning / many models of explanation / no accepted forms / a wild west.	Maintenance / operations / installation / comparison between competing forms / feature analysis e.g. merits of one model over another	Focused on use / increasingly an accepted, almost invisible component
General Properties				
Market	Undefined market	Forming market / an array of competing forms and different models of understanding	Growing market / consolidation to a few competing but more accepted forms.	Mature market / stabilised to an accepted form
Knowledge management	Uncertain	Learning on use / focused on testing prediction	Learning on operation / using prediction / verification	known / accepted
Market (Ecosystem) Perception	Chaotic (non linear) / Domain of the "crazy"	Domain of "experts"	Increasing expectation of use / Domain of "professionals"	Ordered (appearance of being linear) / trivial / formula to be applied
User perception	Different / confusing / exciting / surprising / dangerous	Leading edge / emerging / uncertainty over results	Increasingly common / disappointed if not used or available / feeling left	Standard / expected / feeling of shock if not used
Perception in Indusry	Future source of competitive advantage / unpredictable / unknown	Seen as a competitive advantage / a differential / looking for ROI and case examples	Advantage through implementation / features / this model is better than that	Cost of doing business / accepted / specific defined models
Focus of value	High future worth but immediate investment	Seeking ways to profit and a ROI / seeking confirmation of value	High profitability per unit / a valuable model / a feeling of understanding / focus on exploitation	High volume / reducing margin / important but invisible / an essential component of something more complex
Understanding	Poorly understood / unpredictable	Increasing understanding / development of measures	Increasing education / constant refinement of needs / measures	Believed to be well defined / stable / measurable
Comparison	Constantly changing / a differential / unstable	Learning from others / testing the water / some evidential support	Competing models / feature difference / evidential support	Essential / any advantage is operational / accepted norm
Failure	High / tolerated / assumed to be wrong	Moderate / unsurprising if wrong but disappointed	Not tolerated / focus on constant improvement / assumed to be in the right direction / resistance to changing the model	Surprised by failure / focus on operational efficiency
Market action	Gambling / driven by gut	Exploring a "found" value	Market analysis / listening to	Metric driven / build what is needed
Efficiency	Reducing the cost of change (experimentation)	Reducing cost of waste (Learning)	Reducing cost of waste (Learning)	Reducing cost of deviation (Volume)
Decision Drivers	Heritage / culture	Analysis & synthesis	Analysis & synthesis	Previous experience

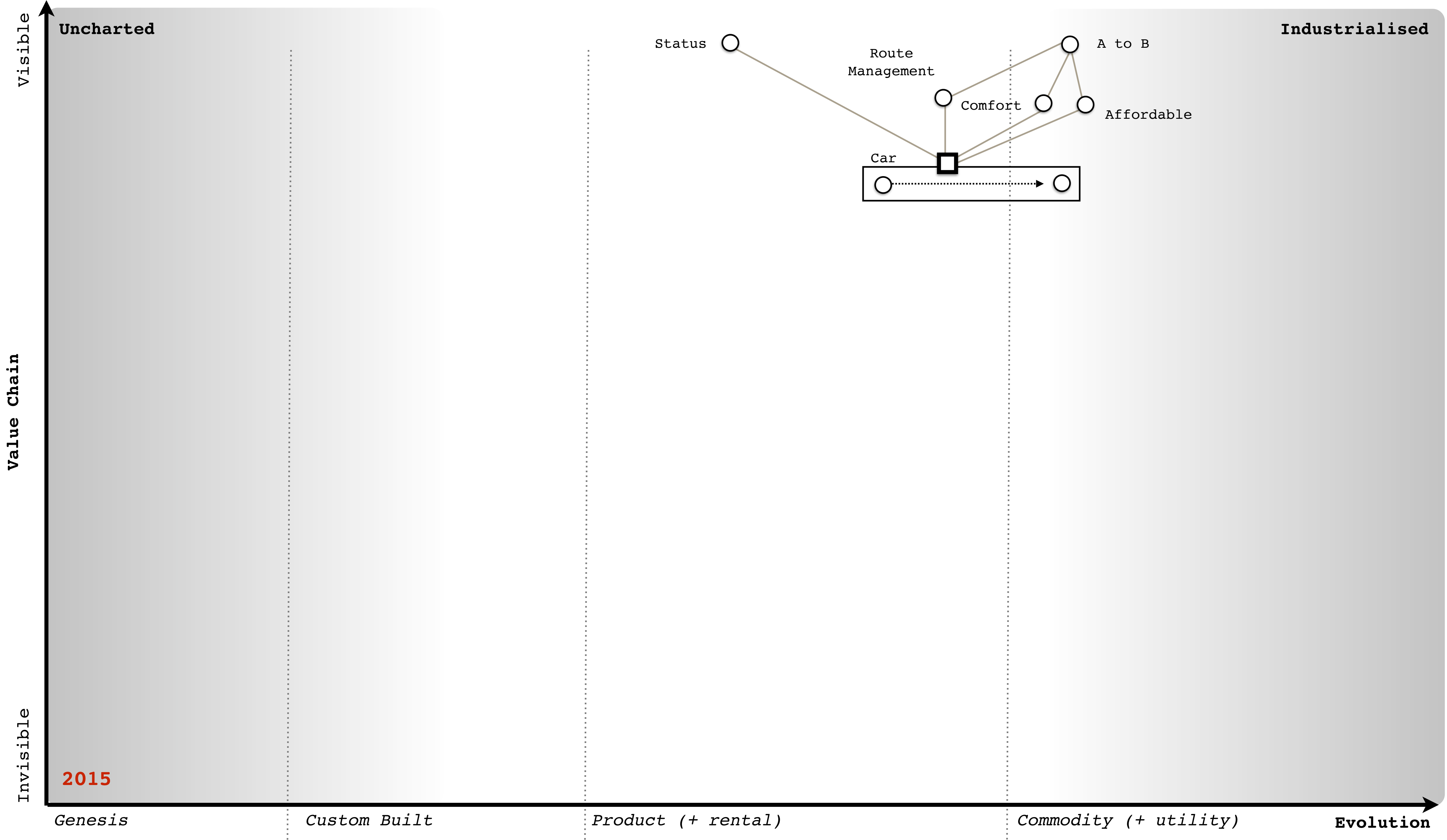
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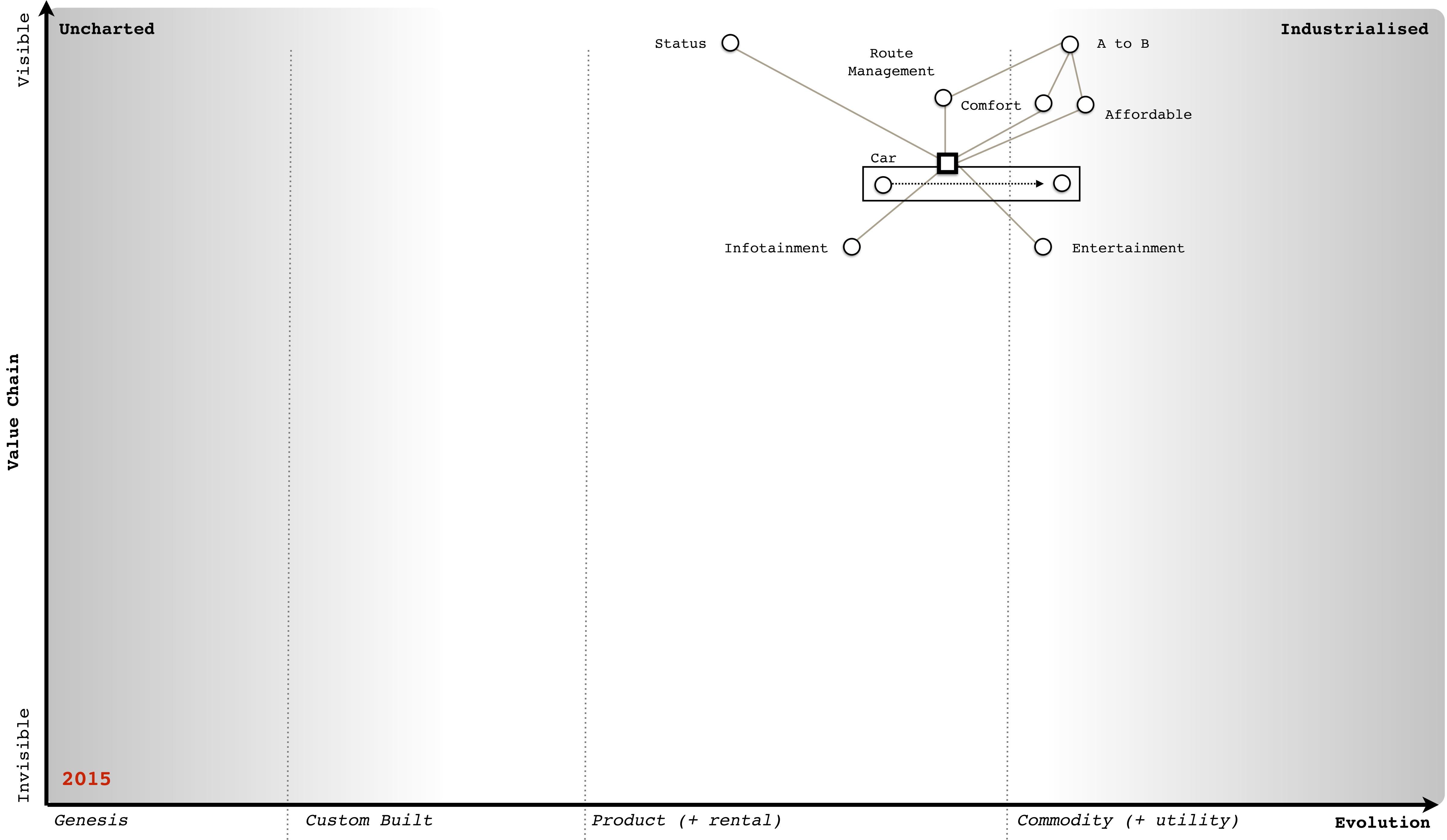


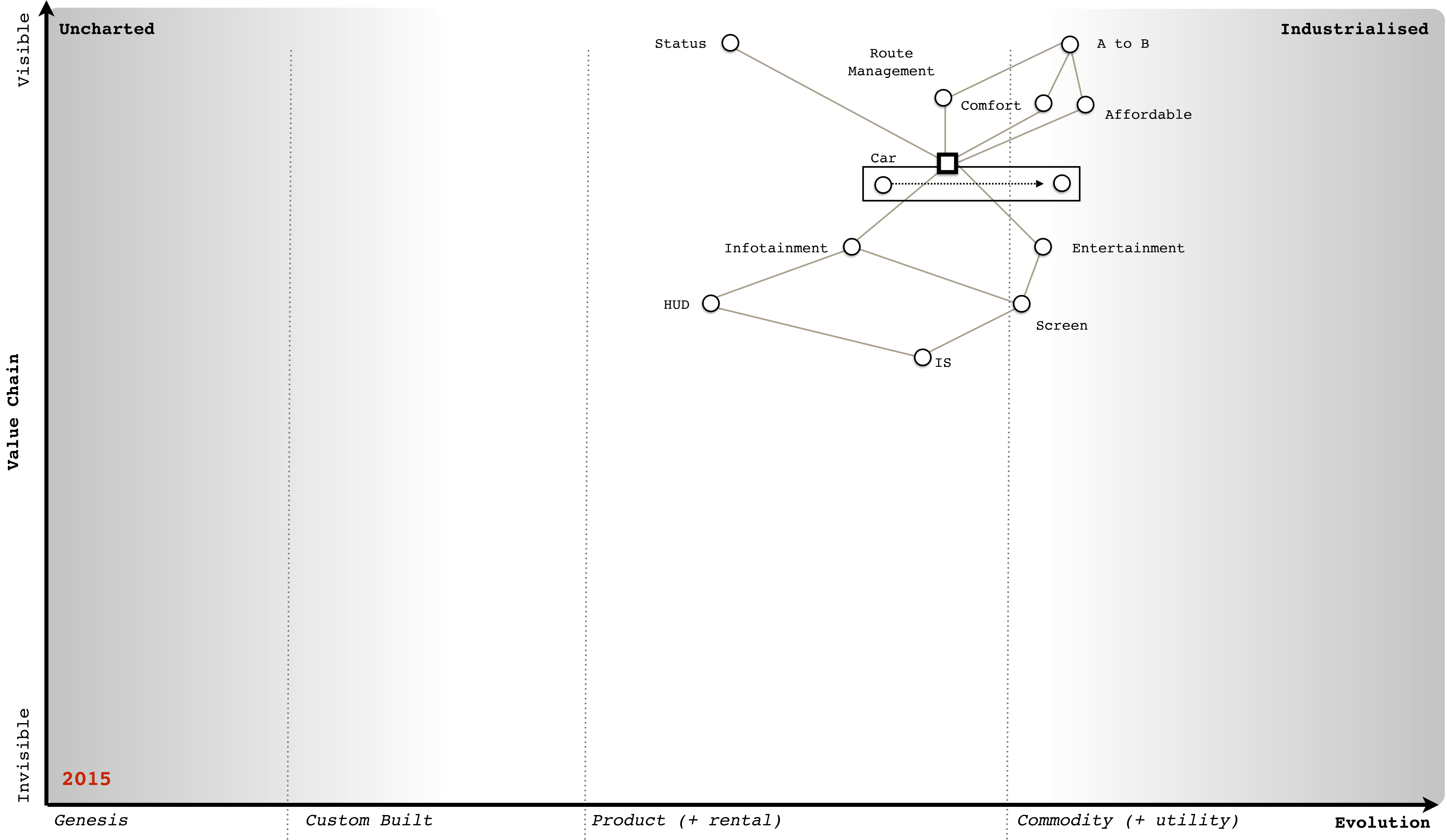
Self
driving car

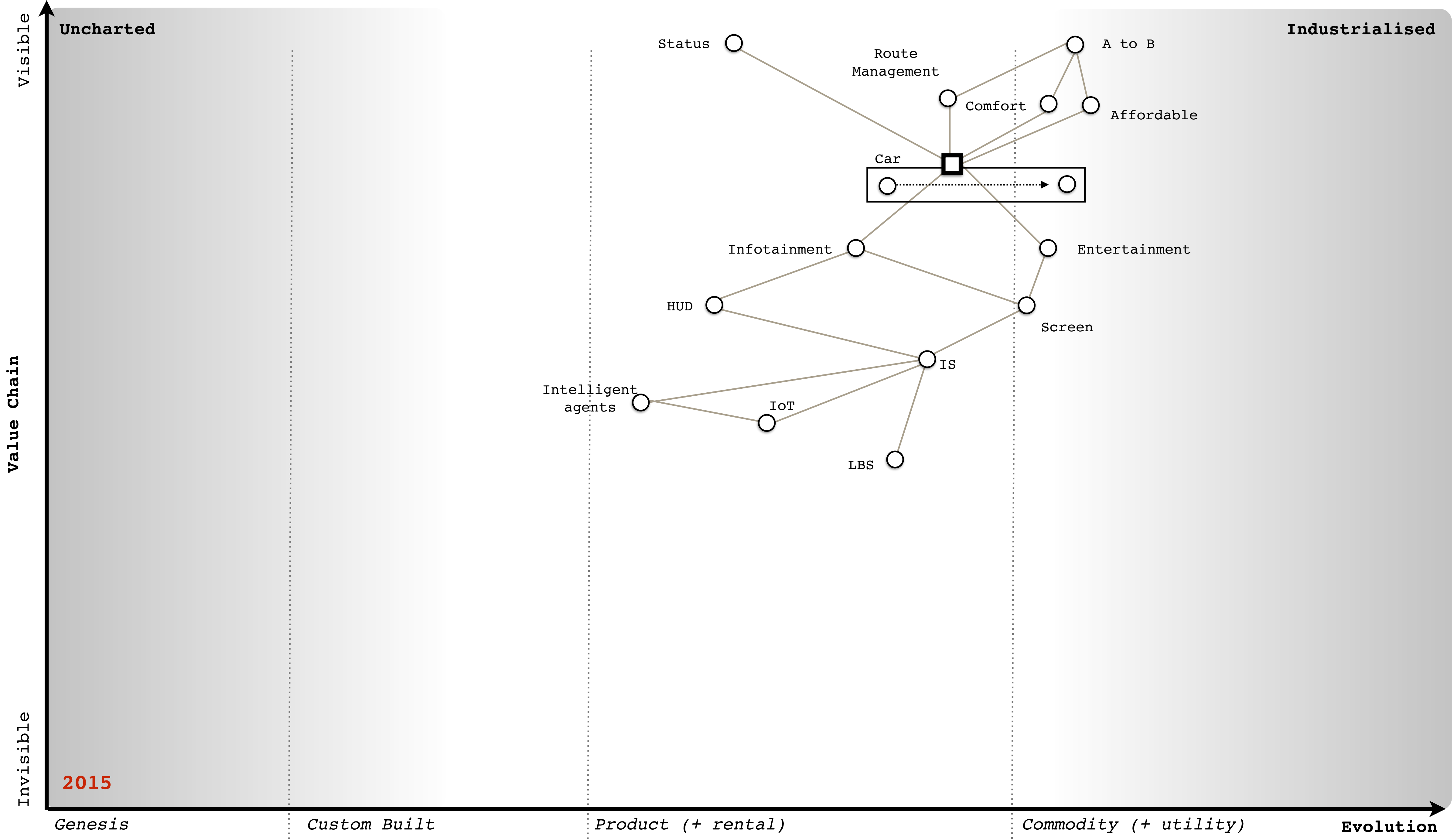


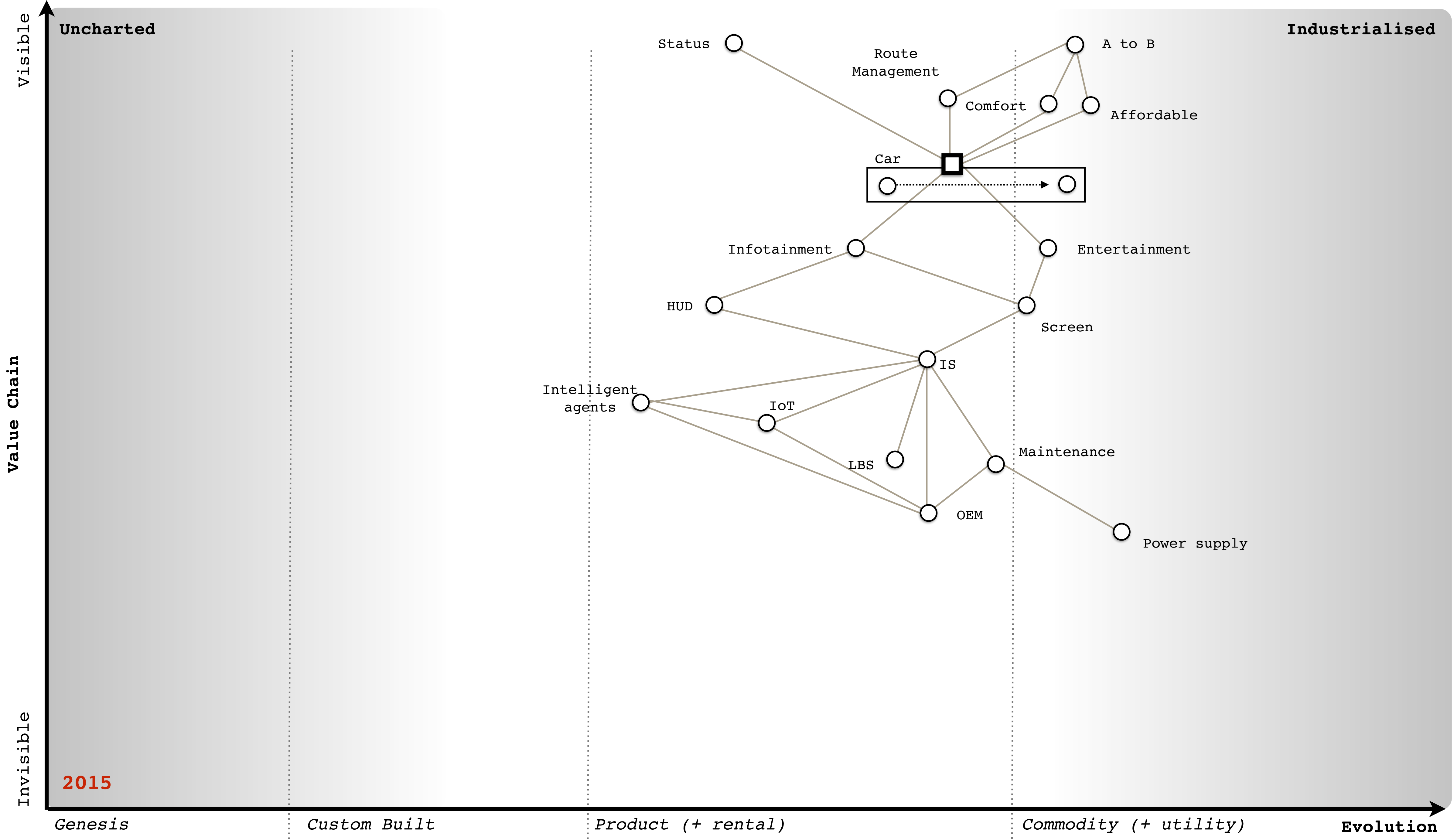


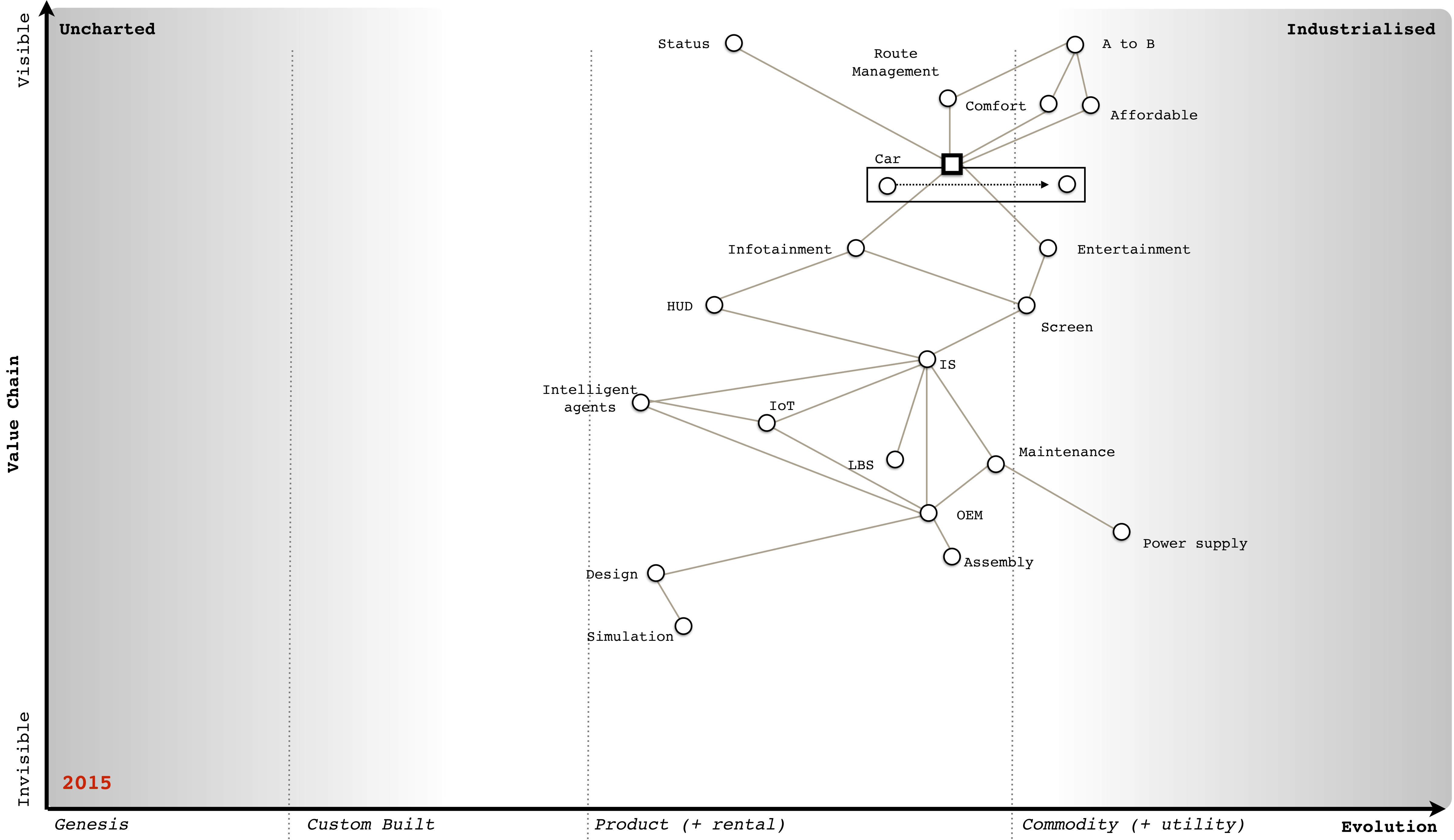


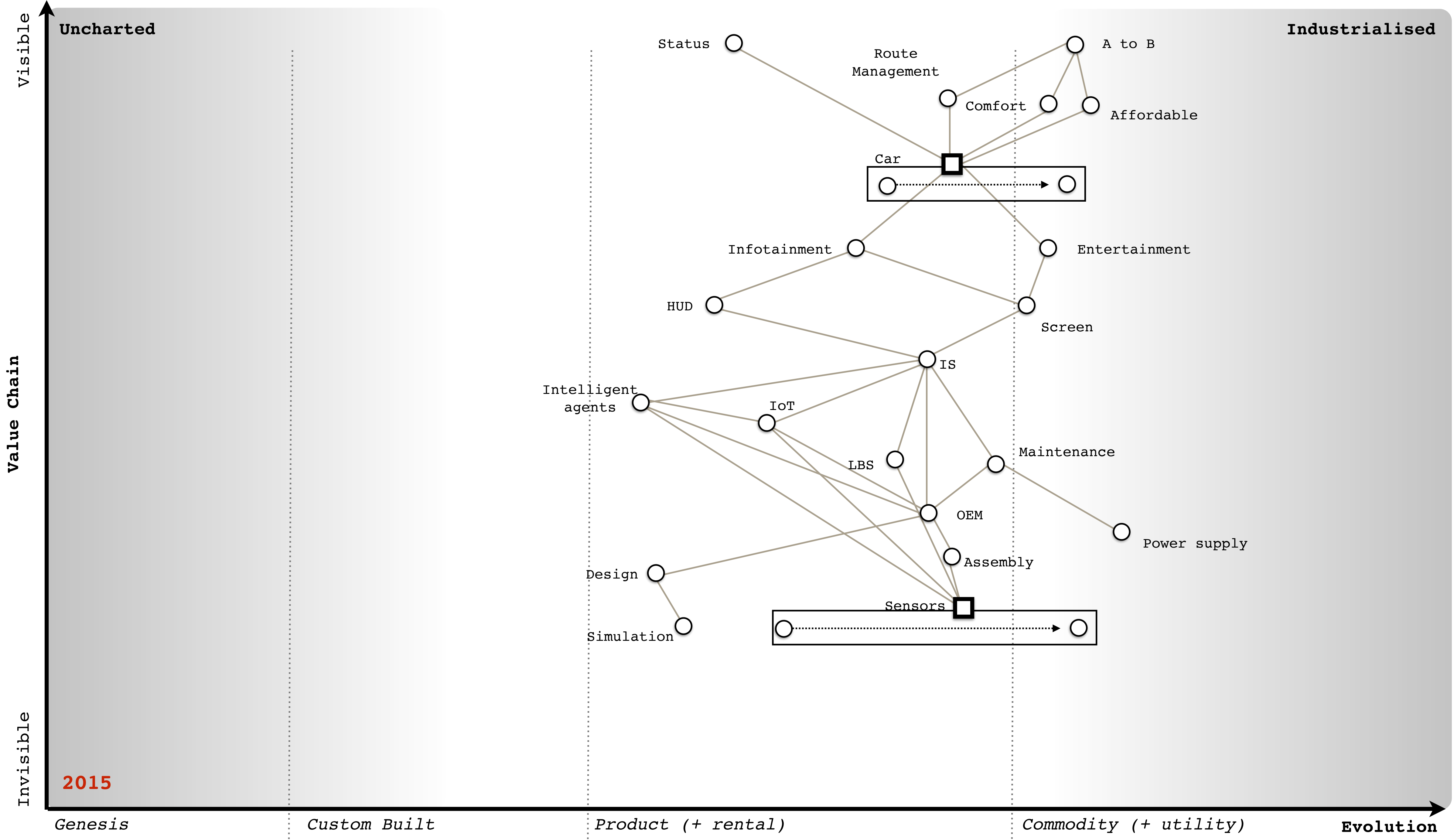


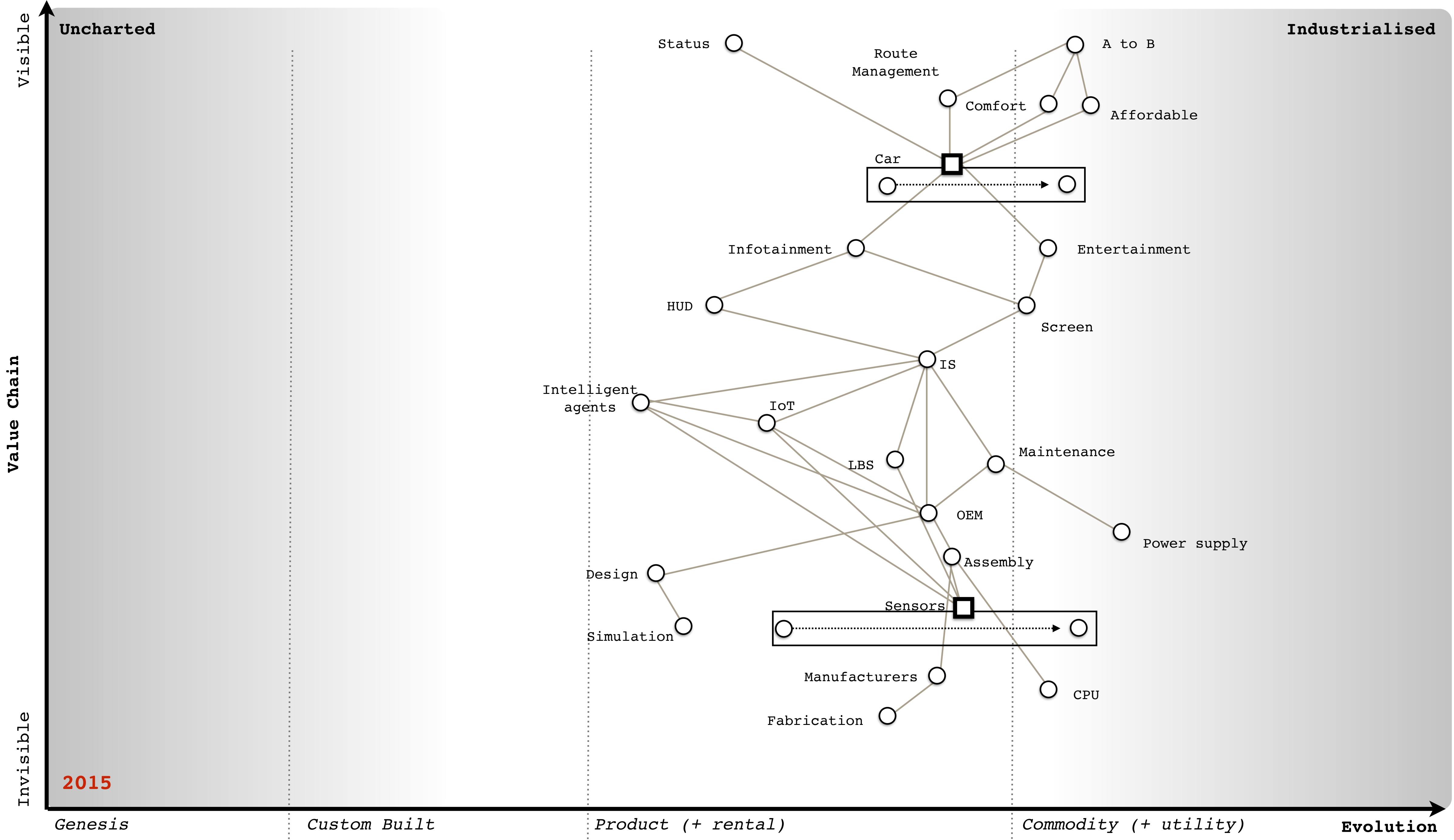


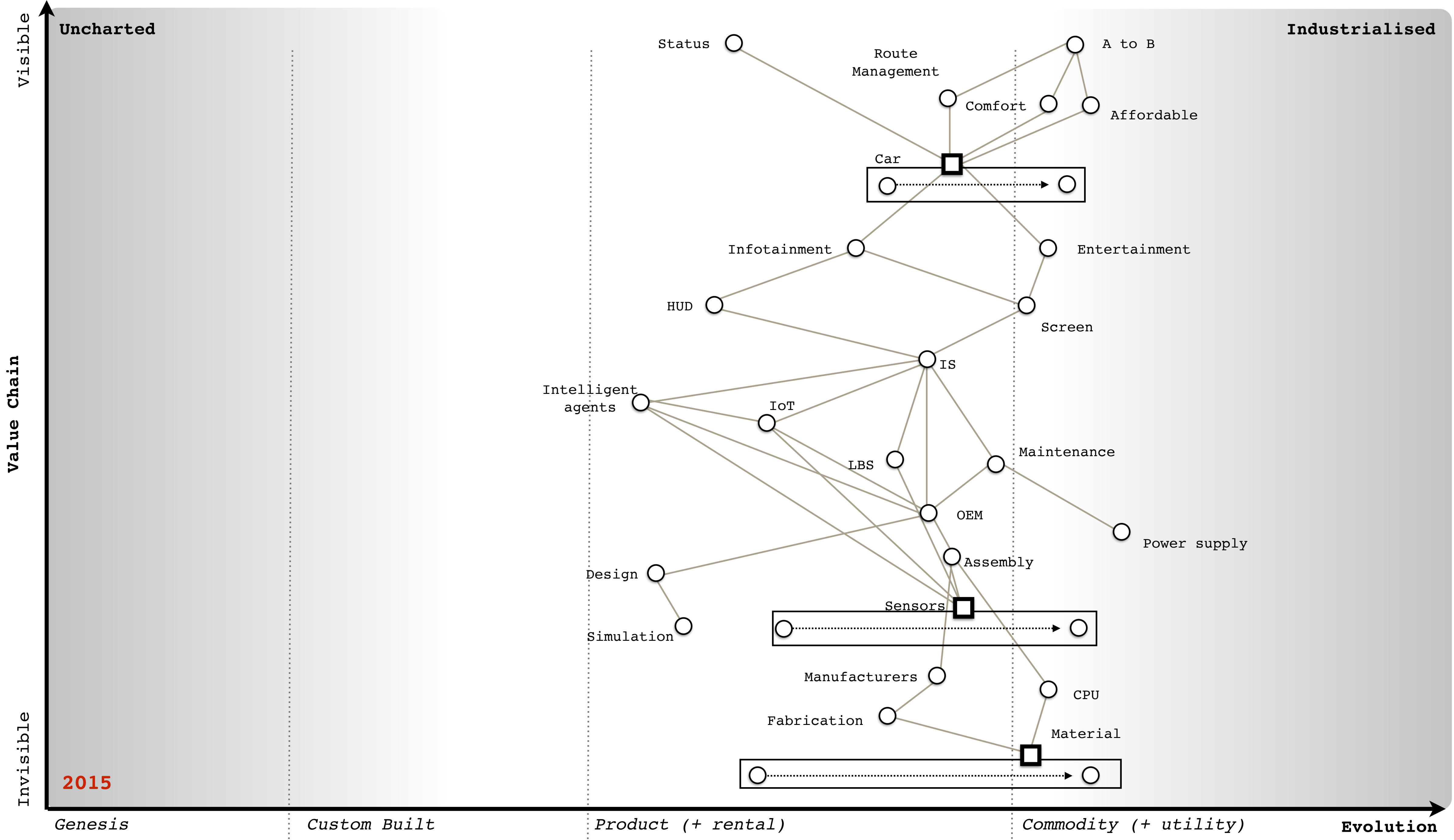


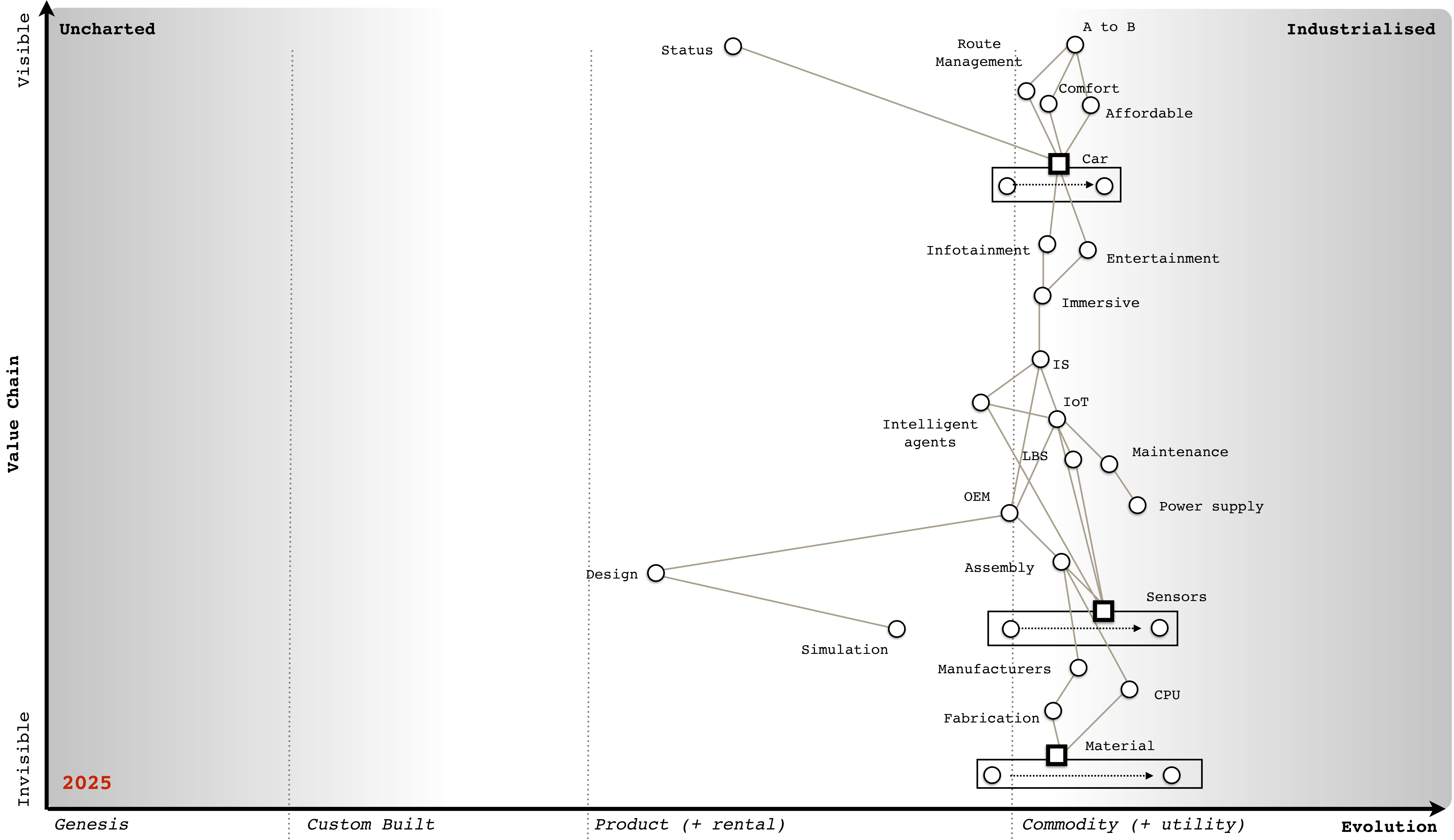


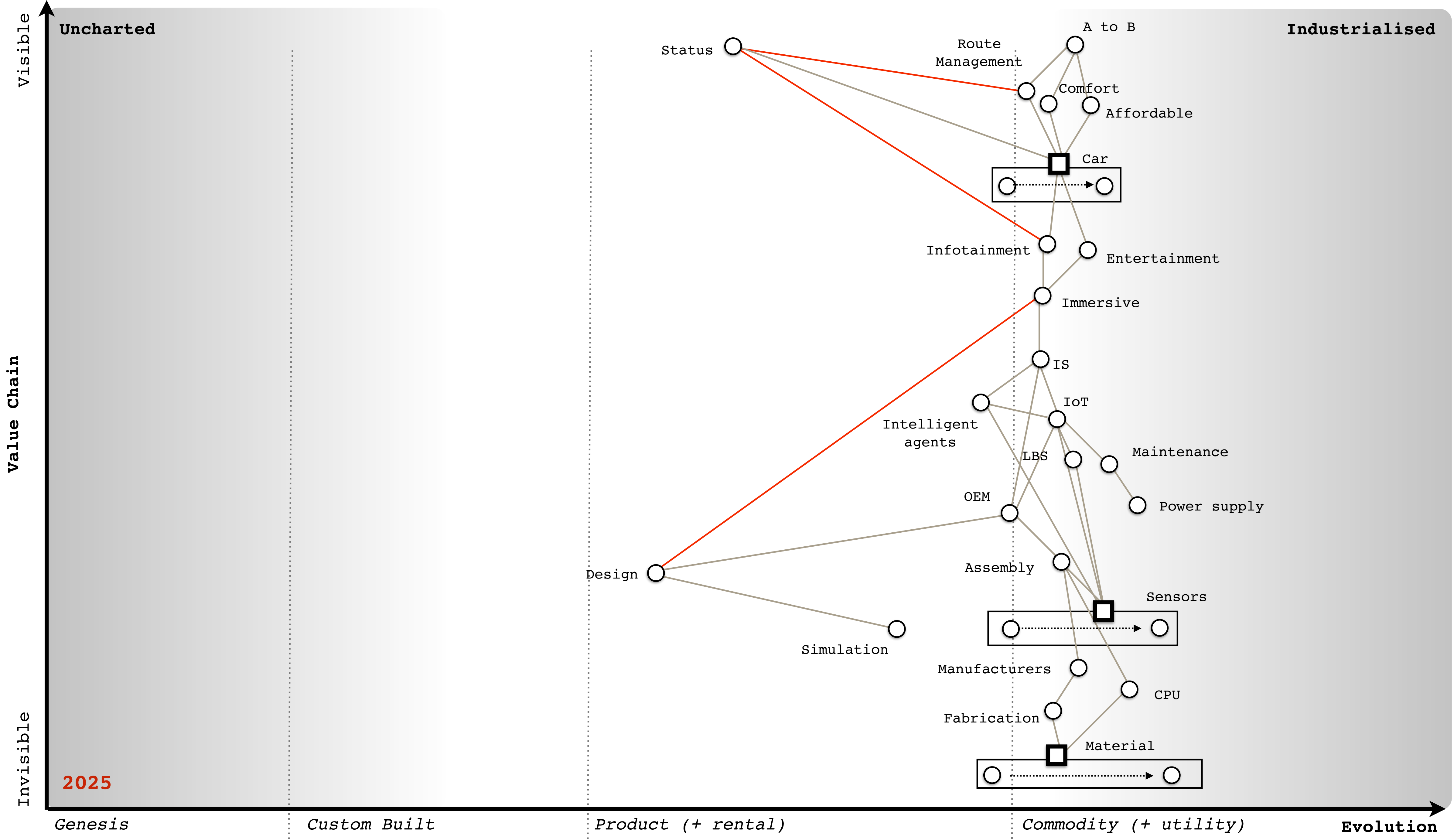


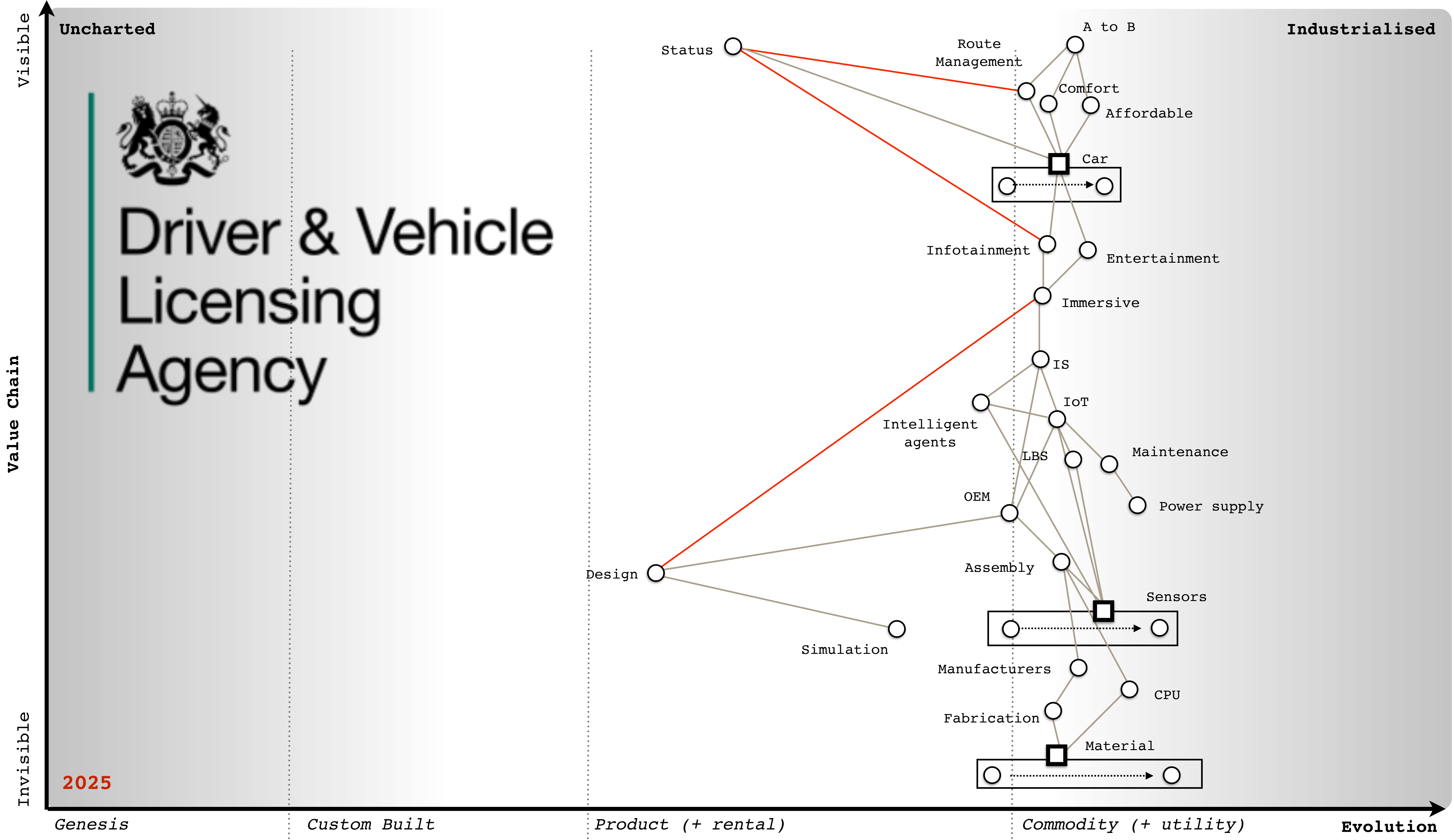


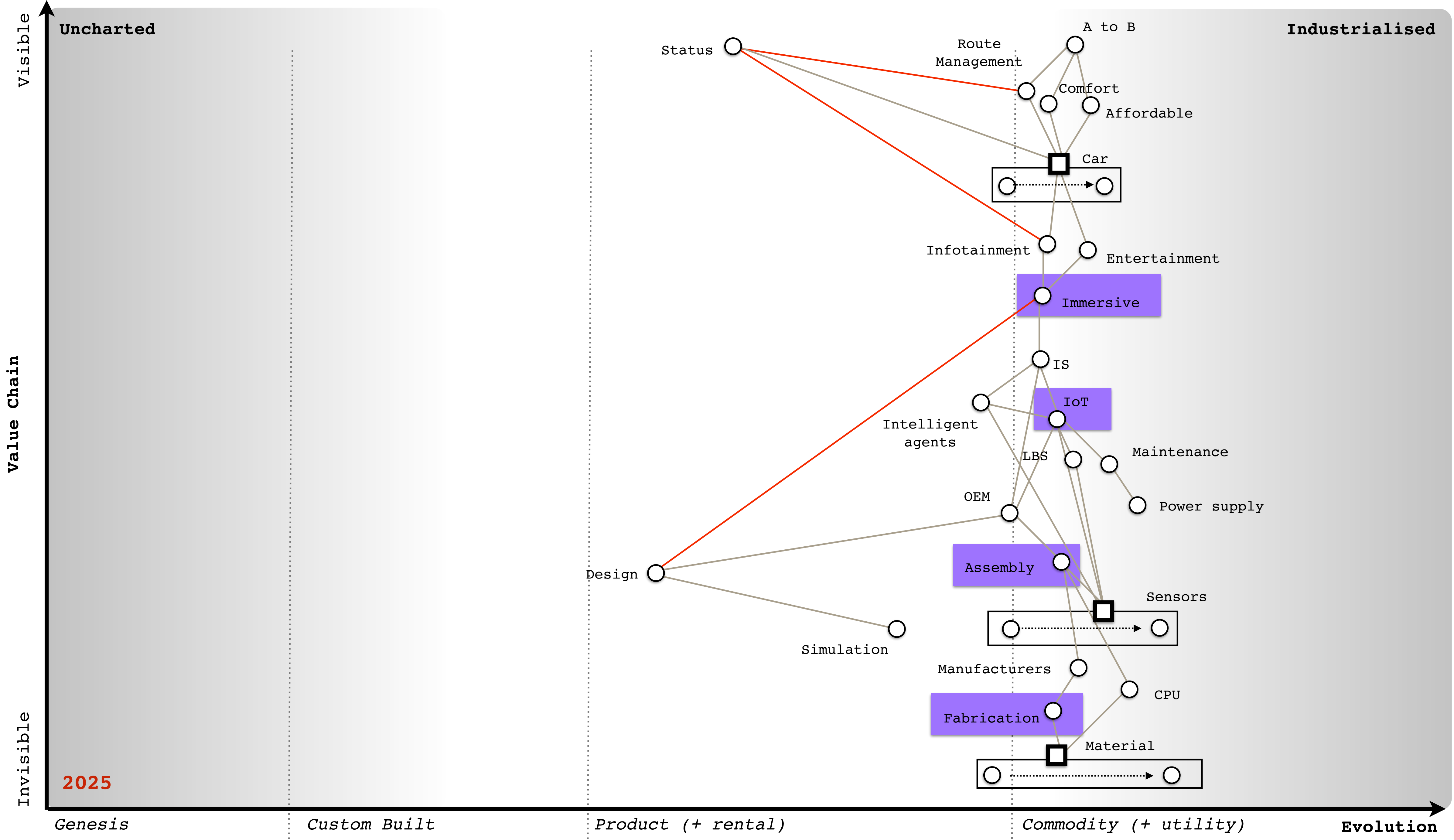


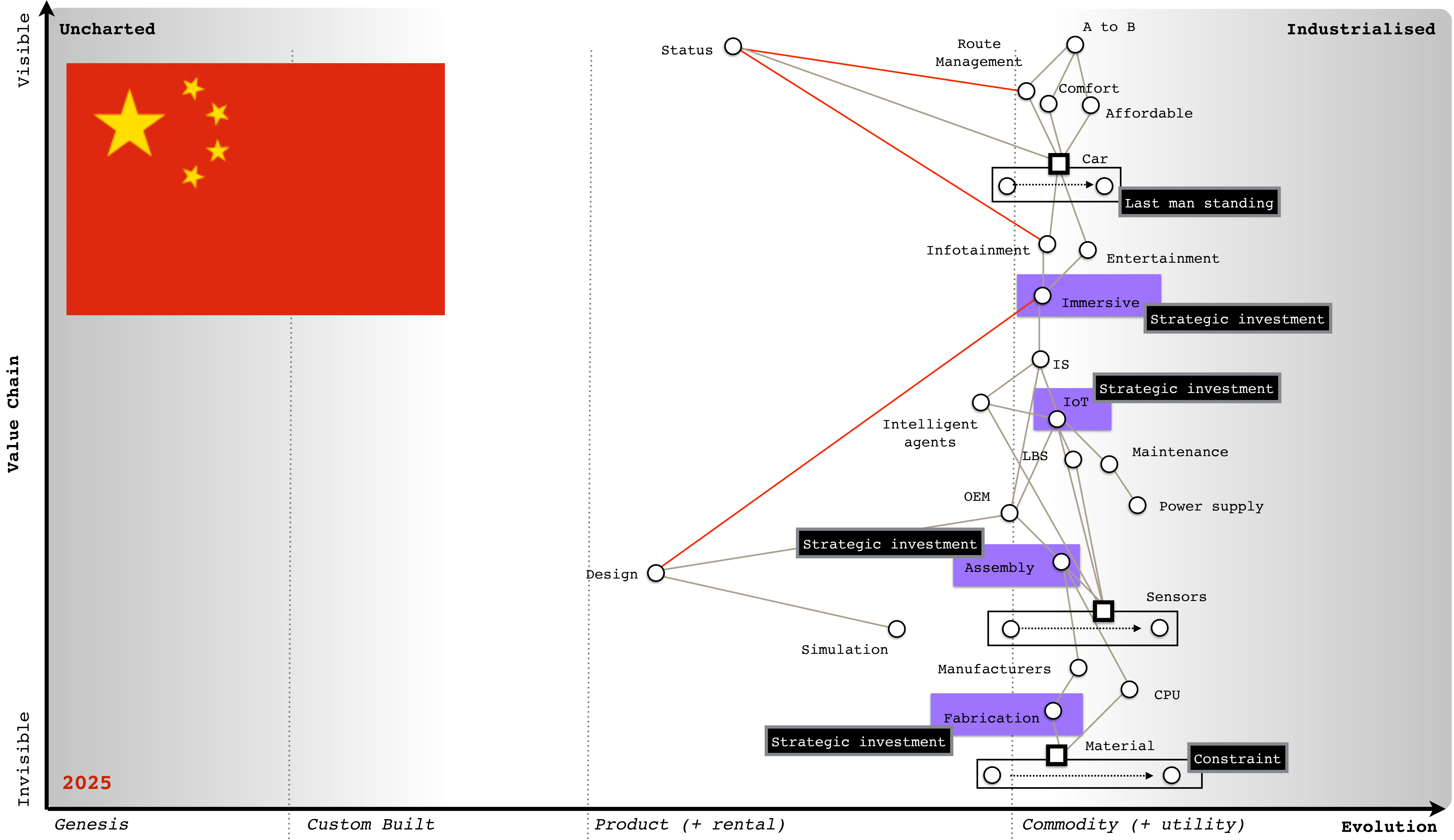


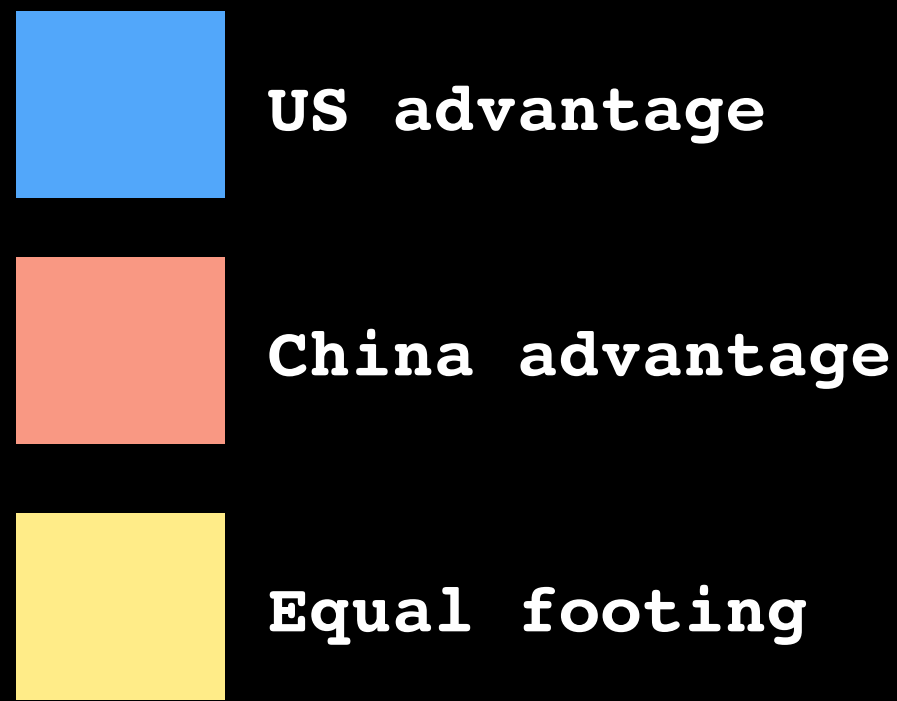
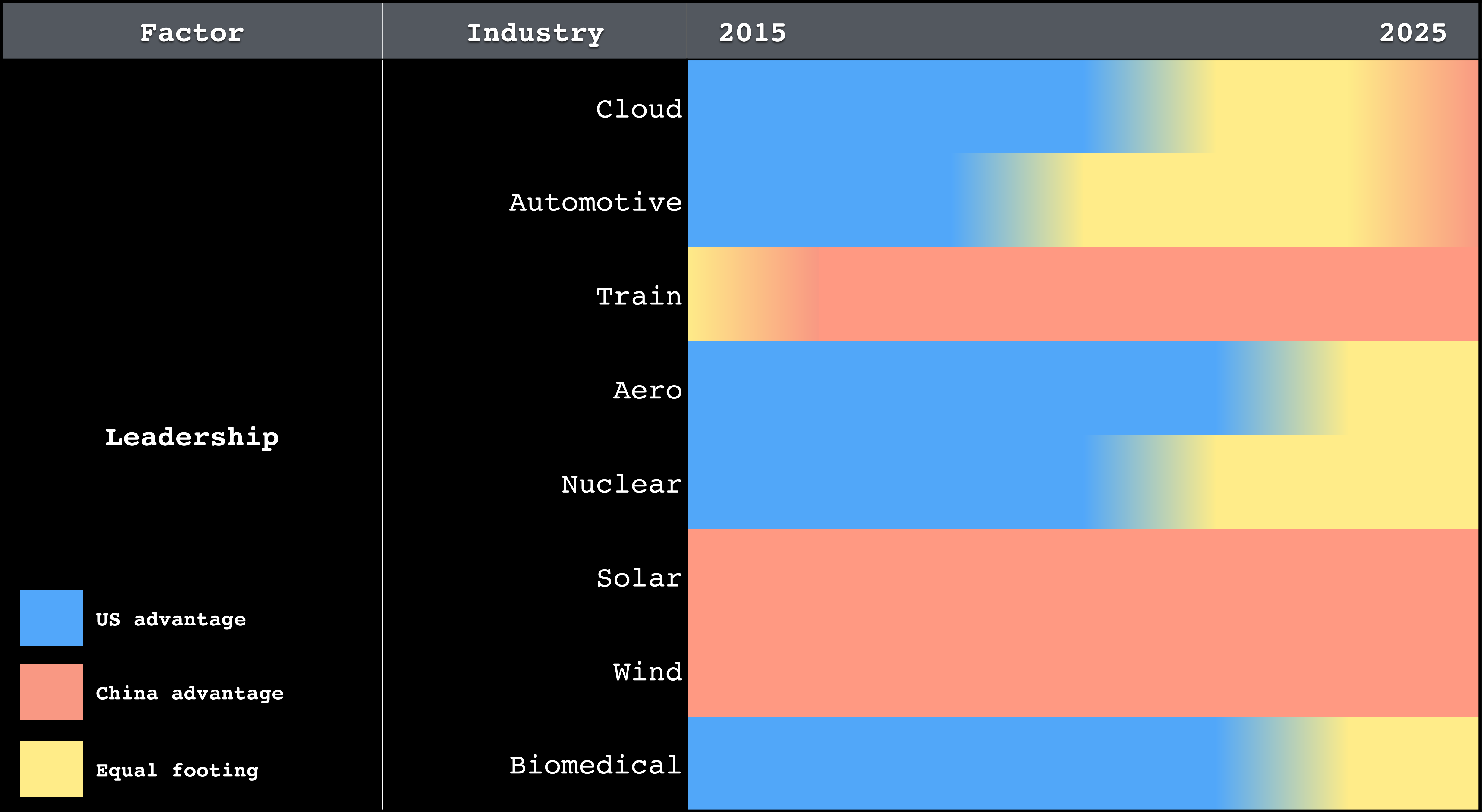














Competition is rarely
a zero sum game.

Learning from China.



Thank you

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