

# Situational Awareness

@swardley

<https://leadingedgeforum.com/>



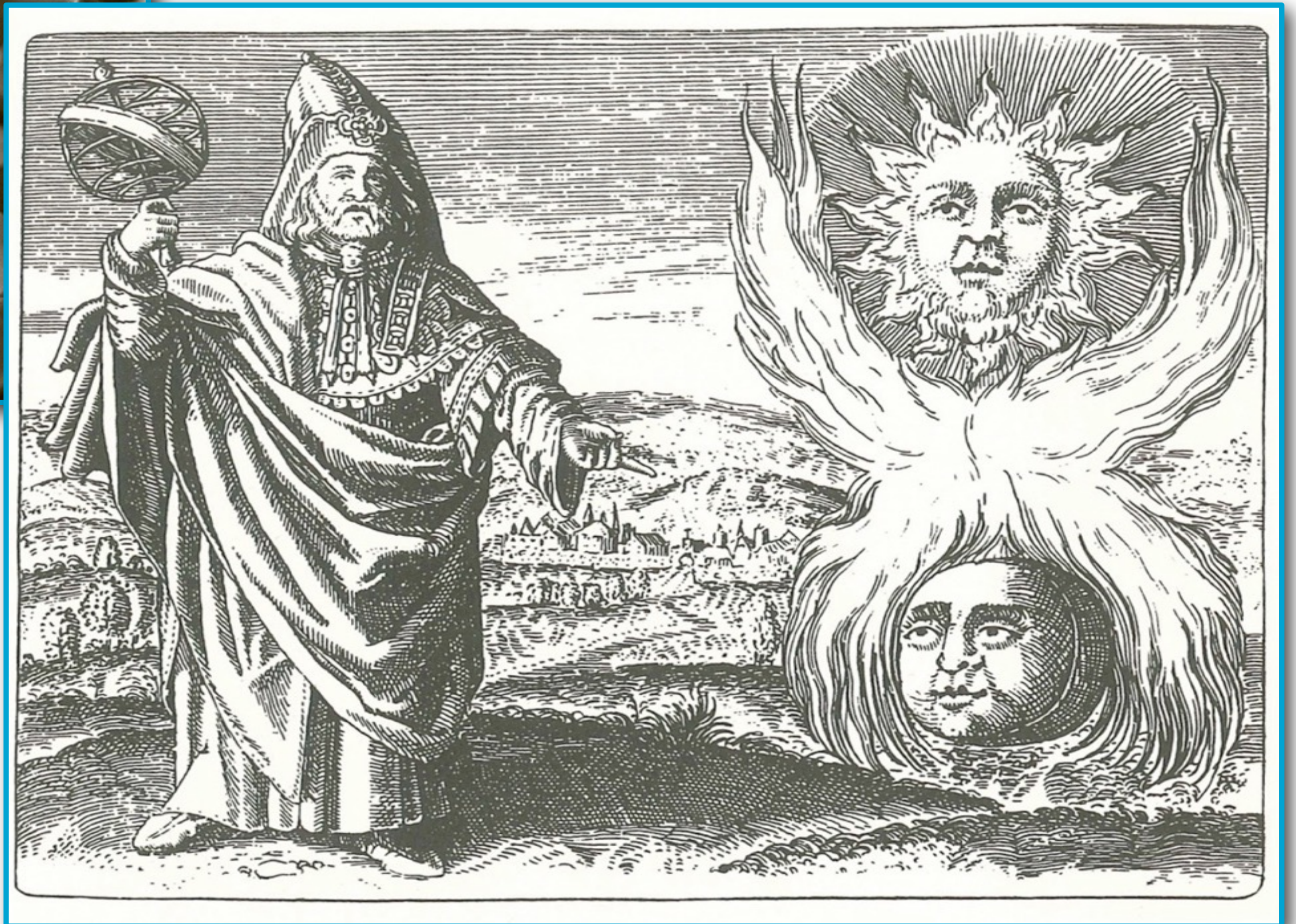
## Question

**Will Big Data improve your  
company strategy?**





**Versus**





**So what?**

**Learning**

**Gameplay**

**How to?**

**Why?**



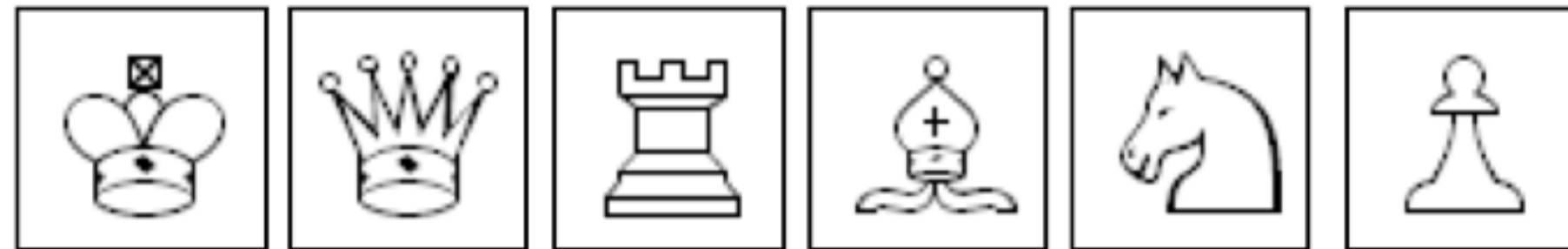


## Two Examples

Chess World

Thermopylae

## White



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

## Black



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



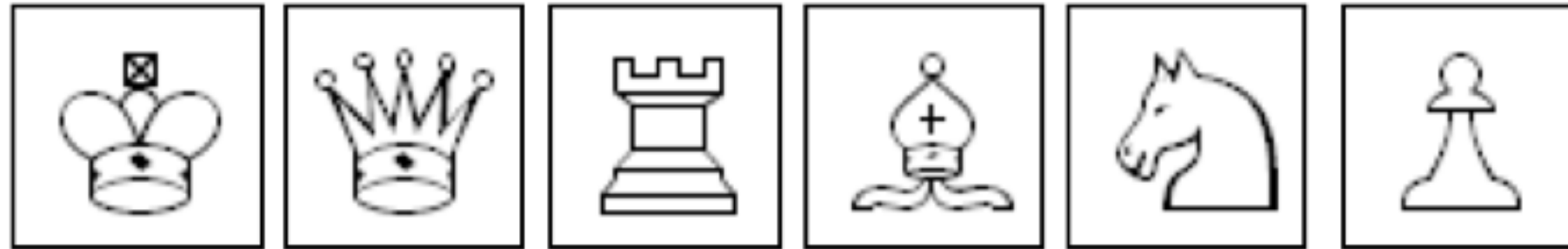
## Backward Causality

If player A does B and is  
successful then ...

If I do B, I also will be  
successful!

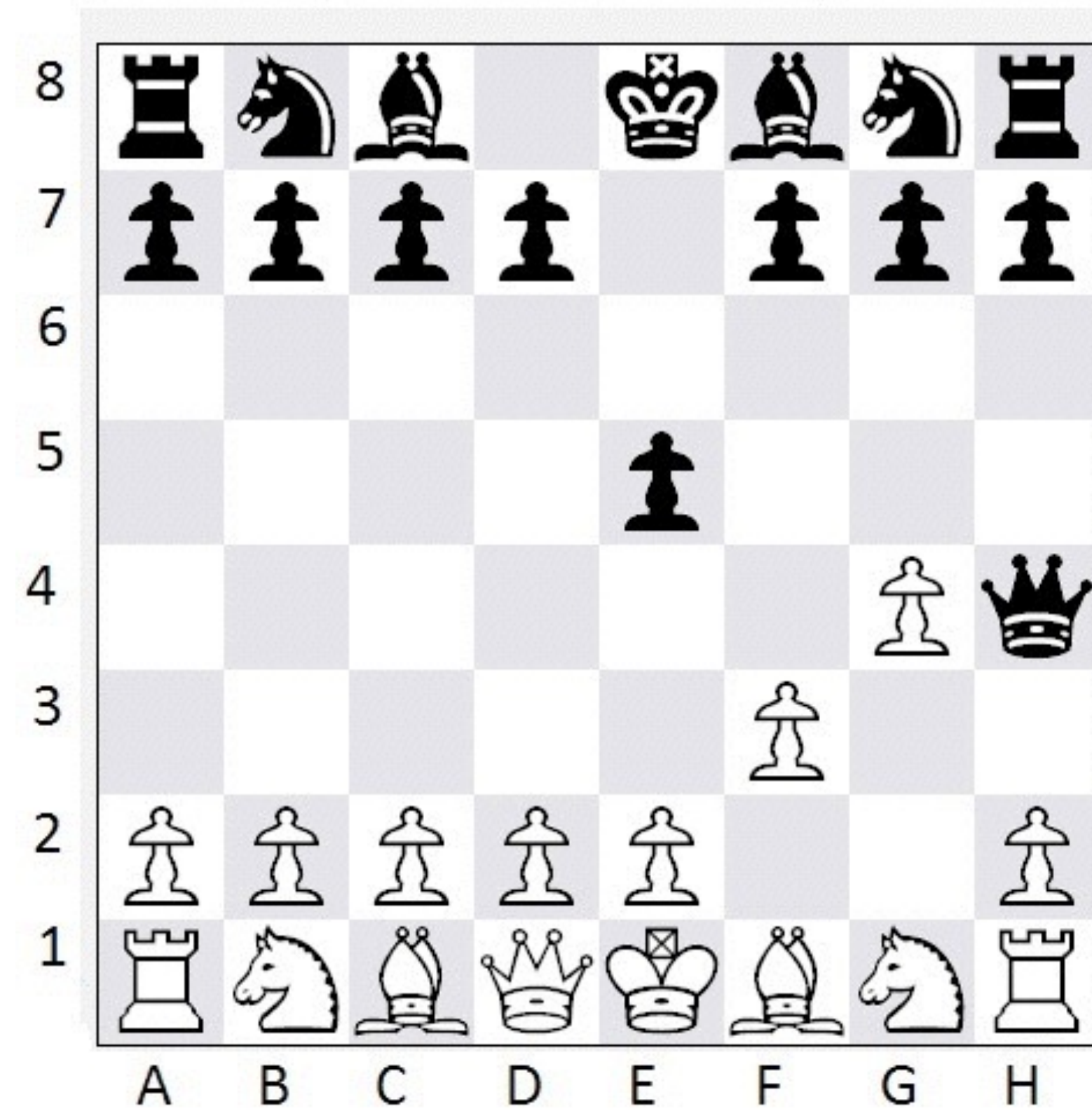


# White



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

# Black



f3, e5, g4, Qh4 ... WIN.



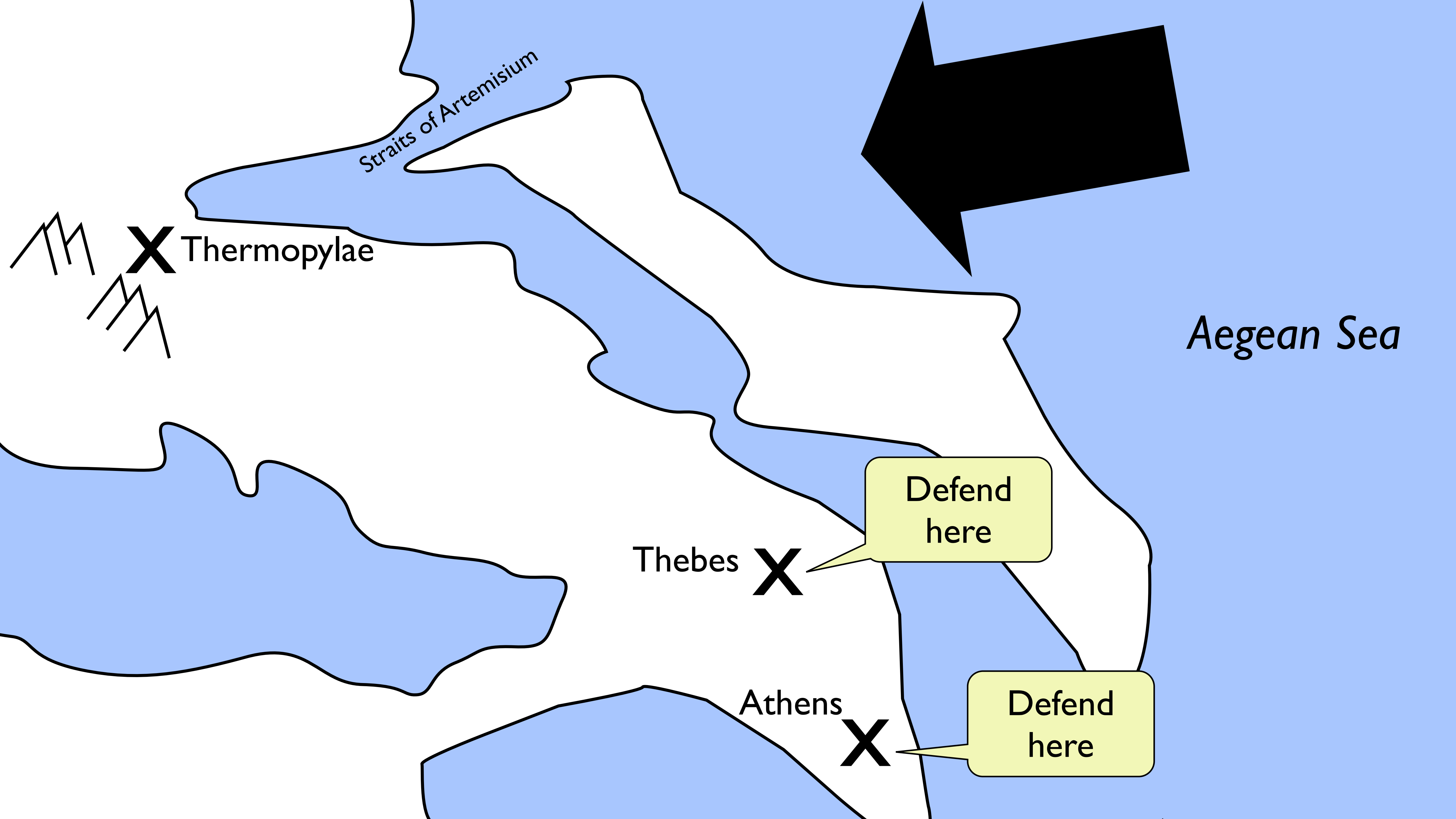


**Themistocles**

**524 - 429BC**

*Politician & General*





Straits of Artemisium

Aegean Sea

Thermopylae

Thebes

Athens

Defend here

Defend here



Force opponents  
along path

Straits of Artemisium

Block here

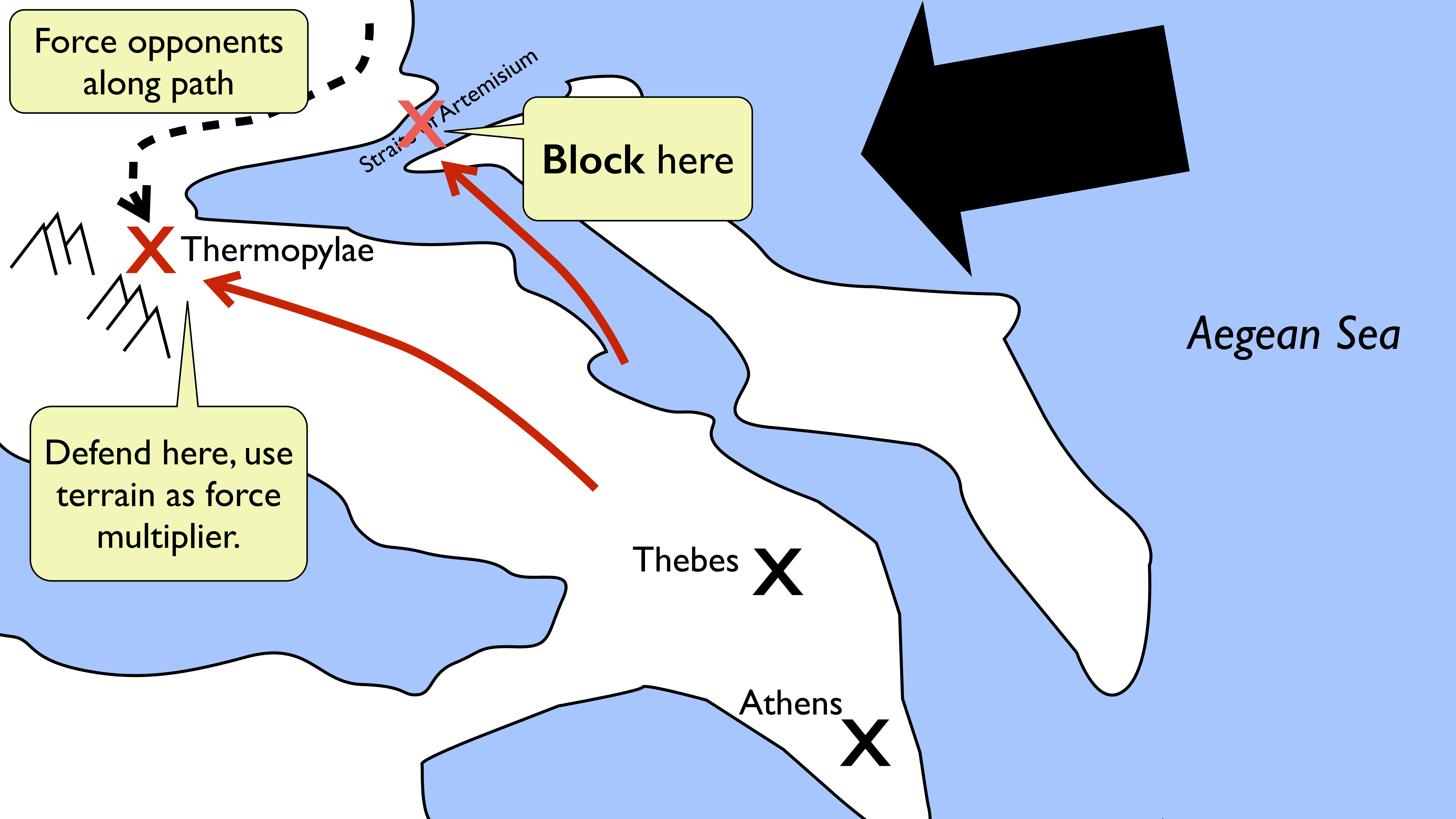
Aegean Sea

Thermopylae

Defend here, use  
terrain as force  
multiplier.

Thebes X

Athens X





## 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

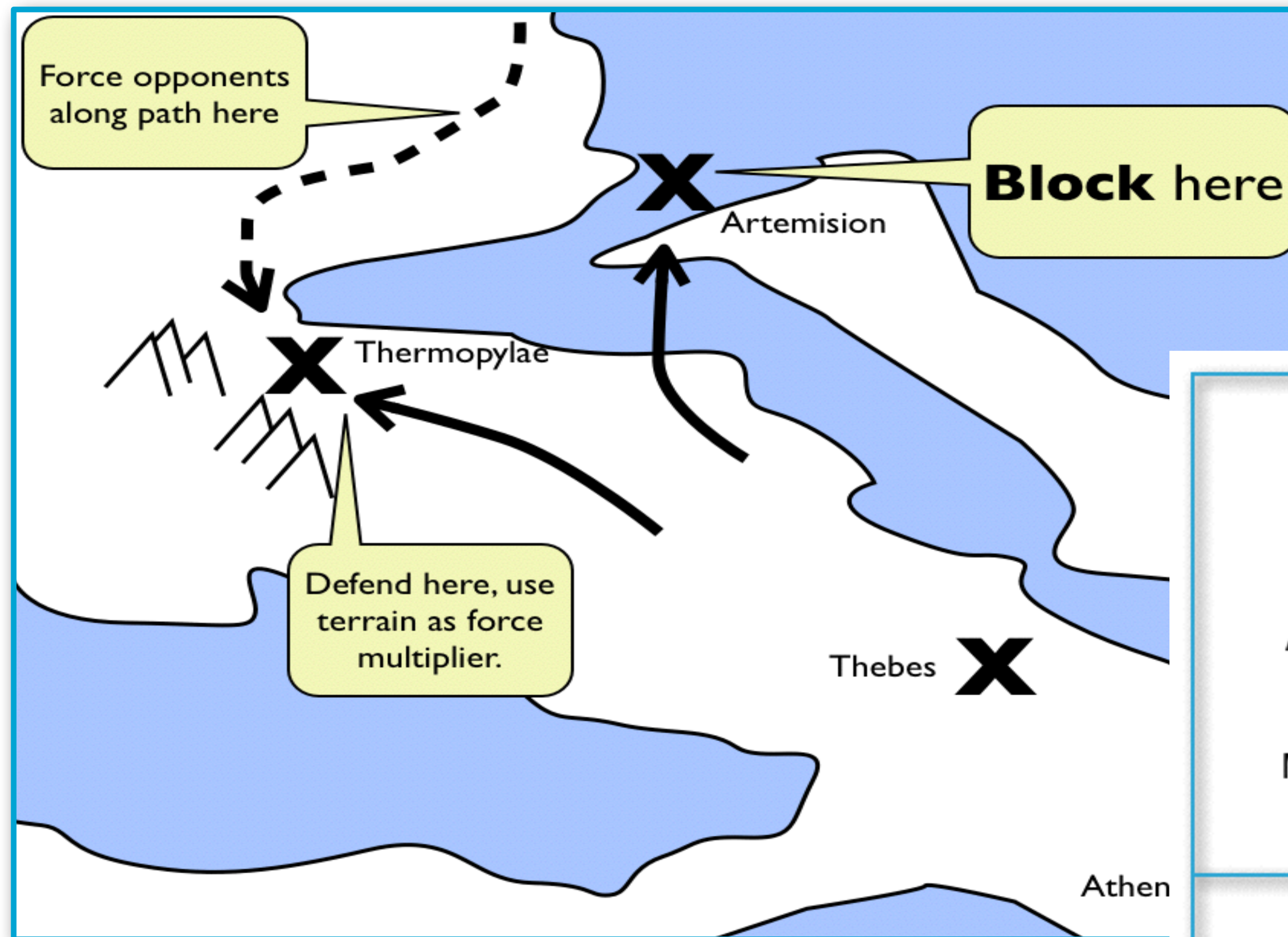


## Threats

Persians get rid of us

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





# Versus

## Strengths

- A well trained Spartan army
- A high level of motivation not to become a Persian slave
- Most of the Persian army are mercenaries and slaves

## Weaknesses

- The rest of the Greeks aren't well trained
- The Ephors might stop the Spartans turning up
- A truck load of Persians ARE turning up

## Opportunities

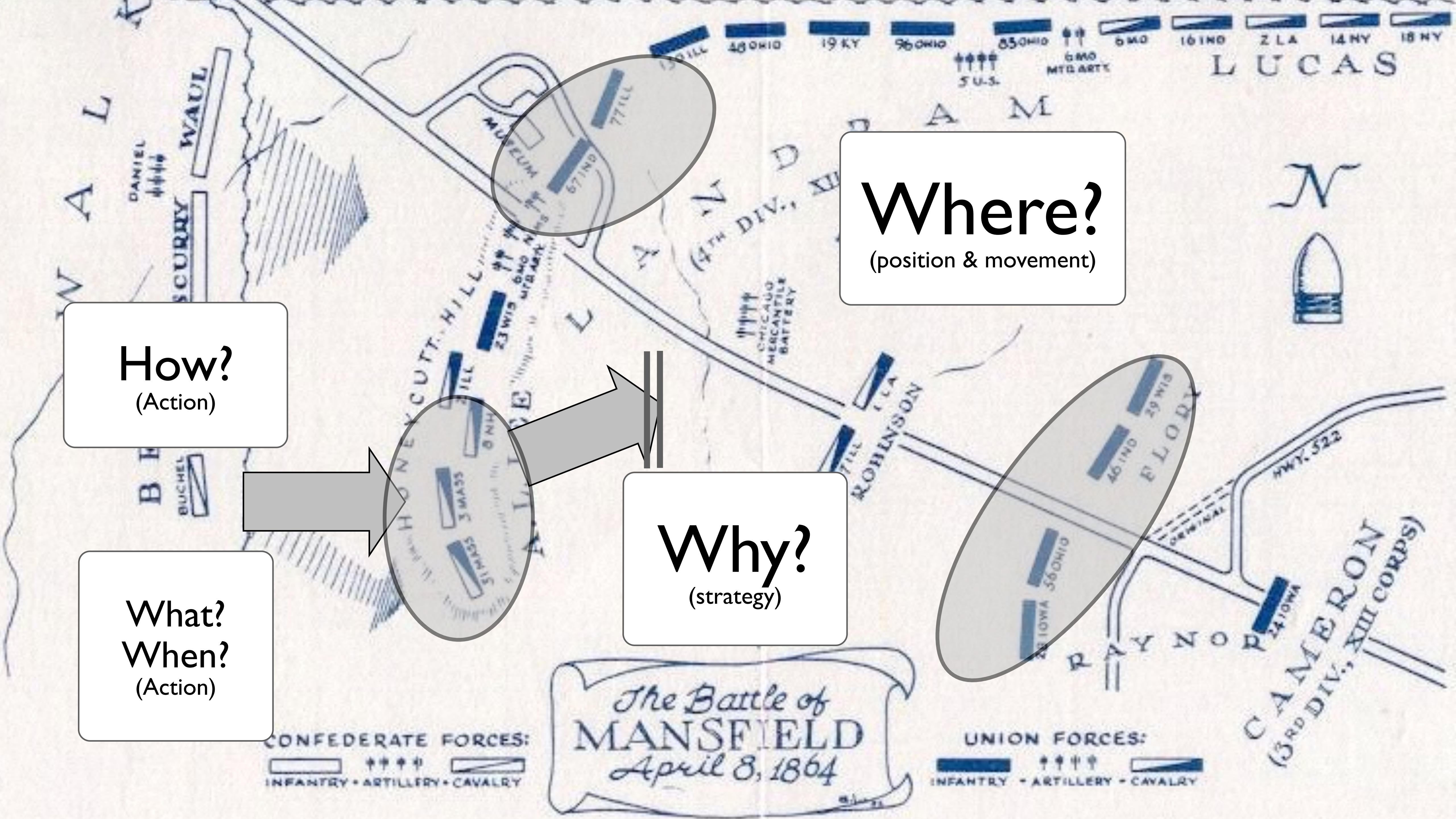
- Get rid of the Persians
- Get rid of the Spartans
- Become a Legend



## Threats

- Persians get rid of us
- The Oracle says a really dodgy film might be produced over 2,000 years later





**Where?**  
(position & movement)

**How?**  
(Action)

**What?**  
**When?**  
(Action)

**Why?**  
(strategy)



# In Military ...

**Where?**  
(position & movement)

**Why?**  
(strategy)

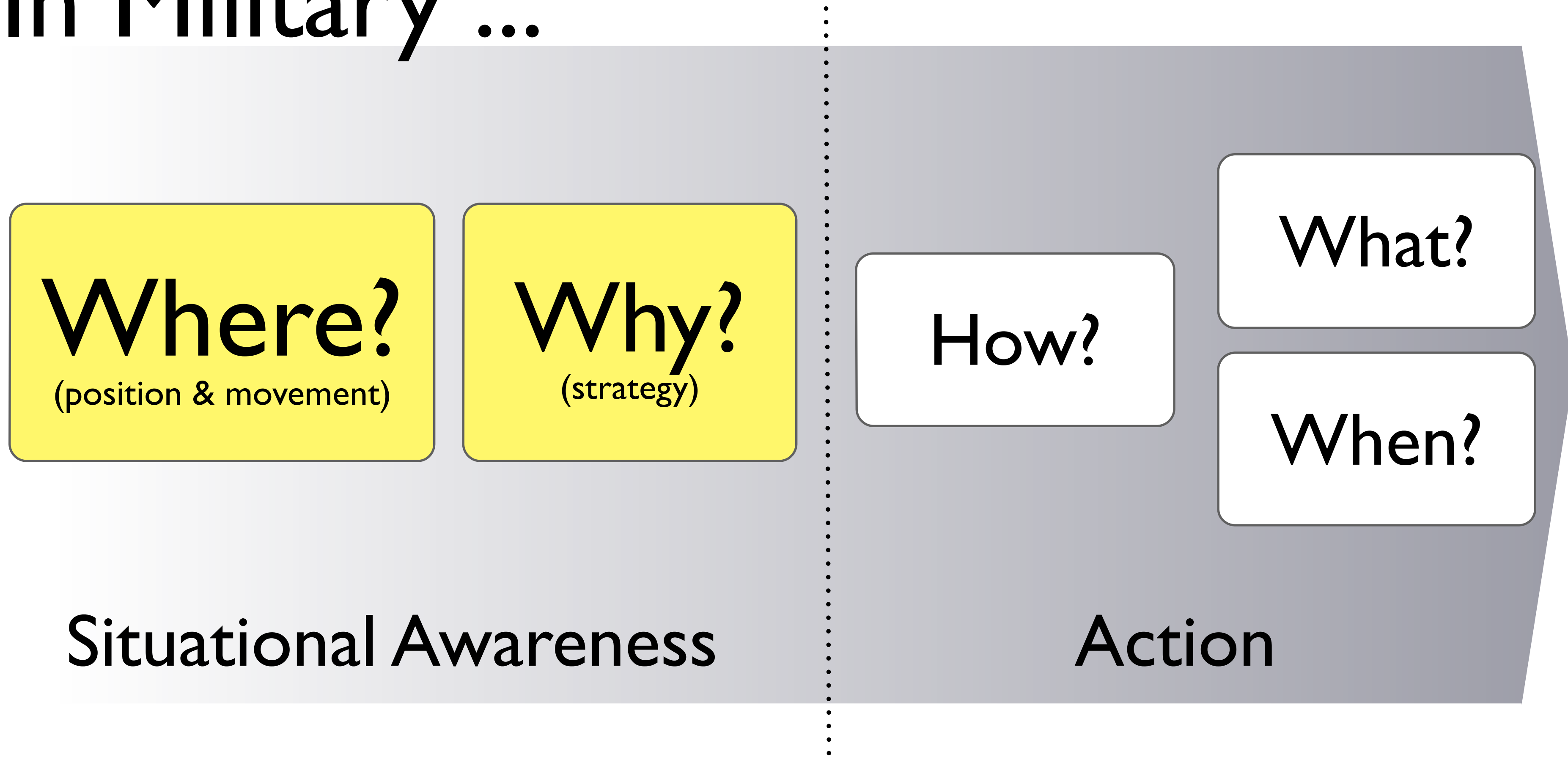
Situational Awareness

**How?**

**What?**

**When?**

Action





STRATEGY

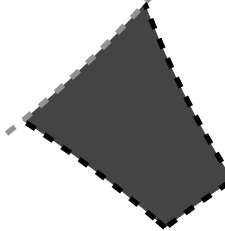


**Tactical  
Choices**  
(BYOD)

**Purchasing  
Decisions**  
(Oracle vs SAP)

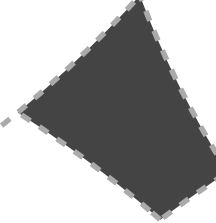
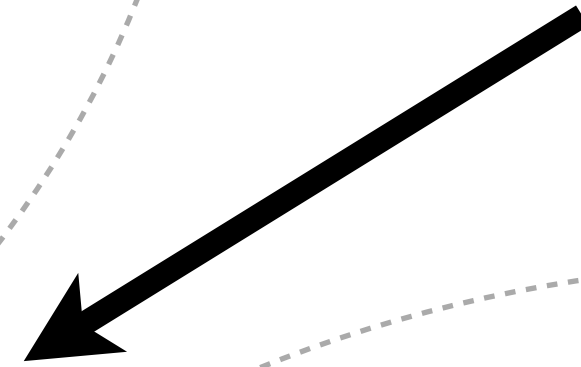
**Implementation  
Details**  
(Private vs Public)

**Operational  
Details**  
(SLAs)



Why?

Vague





## The Realities of Decision-Making with Big Data

By [B2B Insights](#)  
[Contributor](#)

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A survey by the [SAS Institute](#) found that 67% of companies are now using big data in order to gain an edge over their competitors. Their use of analytics has enabled 46% to streamline operations, 36% to identify target customers, and 29% to evaluate employees.

Your business's software systems already collect vast amounts of data, and these tools are fully capable of parsing this data into meaningful, useful, and actionable information. Are you utilizing all the information you have at your fingertips in order to make better decisions?

### Using Big Data in Sales

Your business's [POS software system](#) is a natural repository for big data. Think of all the numbers you can pull from your system: what you're selling, how much you're selling it for, who you're selling it to, and when you sell the most. You can pull sales information for the past year, the past month, or the past three days. The things you can do with this information include:

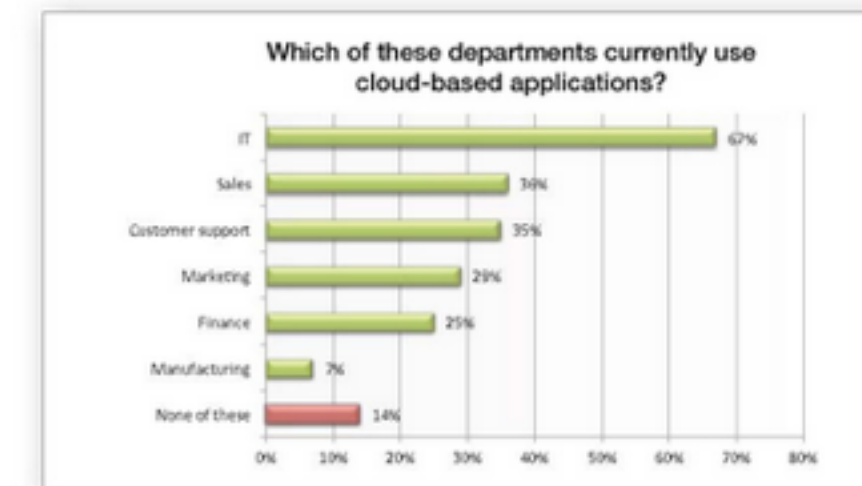


## Survey: CIOs Bullish on Cloud Benefits, But Worry About SaaS Data Silos

CIOs continue to grow more and more bullish about cloud solutions, with a whopping 92% saying that cloud provides business benefits, according to a recent survey. Nonetheless, IT execs remain concerned over how to avoid SaaS-based data silos. The survey was conducted by [Dimensional Research](#) and commissioned by [Host Analytics](#).

by Vance McCarthy

Tags: [analytics](#), [BI](#), [cloud](#), [data](#), [Host Analytics](#), [integration](#), [SaaS](#), [survey](#),



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The [Host Analytics/Dimensional](#) survey queried some 350 CIOs and IT executives on attitudes, trends and challenges pertaining to cloud

adoption.

Among the sunnier findings for cloud advocates are these results from CIOs and IT executives:

- 92% said the adoption of cloud technologies is good for business
- 67% said cloud technologies help IT deliver better systems for less money
- 62% said SaaS applications give business stakeholders more ownership of key applications
- Cloud is gaining a foothold across many corporate departments, including IT (67%), sales (36%), and customer support (35%)

## 7 Steps For a Successful Social Media Strategy

By [Nick Shin](#)

Published July 21, 2010 [Print](#)

According to the [2010 Social Media Marketing Report](#), 67% of marketers plan to increase their use of social media channels including blogs, Twitter, and Facebook.

As more companies integrate social media into their marketing and communications plans, emphasis needs to be on **creating a social media strategy**. Without a strategy, you'll undoubtedly be sucked into a [social media time sink](#).



1,287

[Tweet](#)

Everyone else is!  
67% of successful  
companies do ...

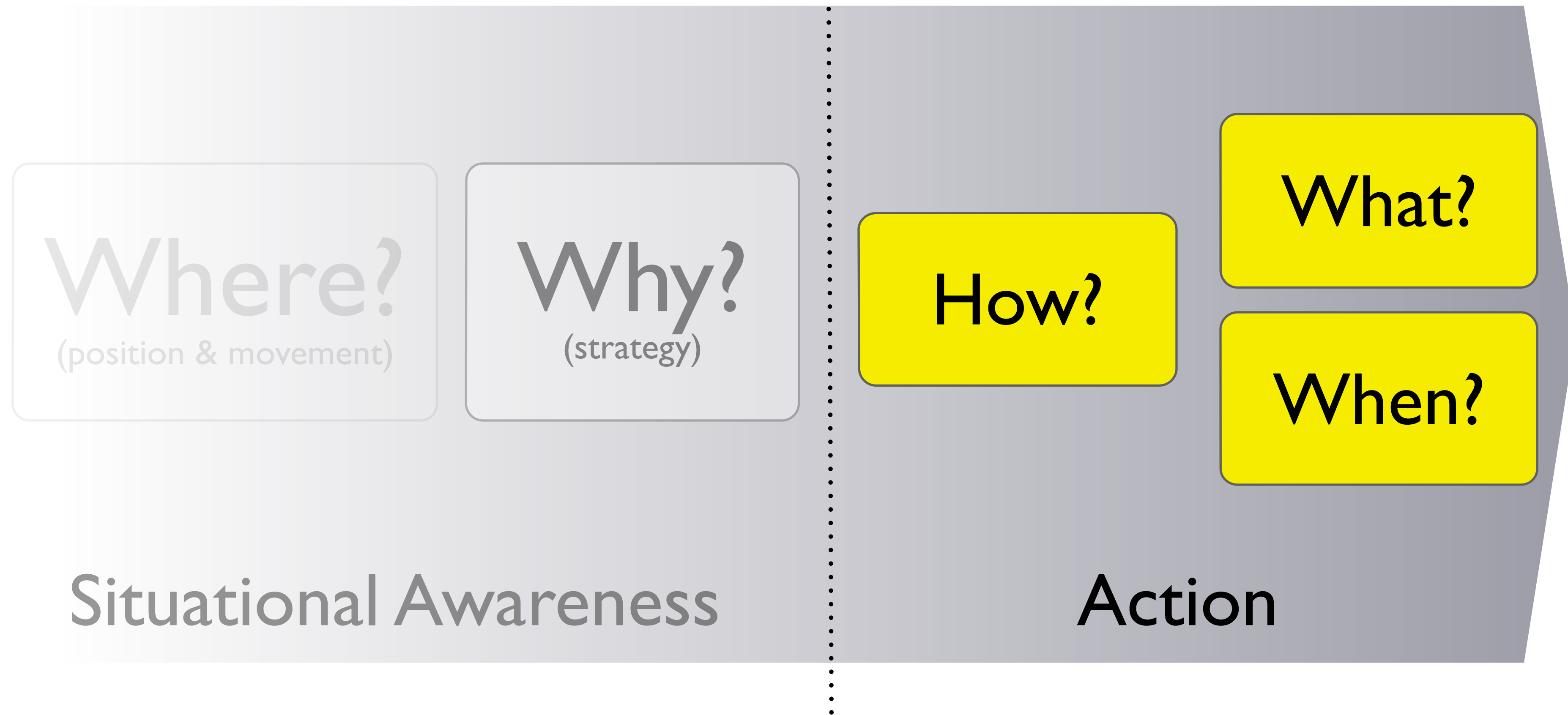


*Our strategy is sustainable. We will lead a collaborative effort of the market through our use of growth and social media to build a competitive advantage. By being both open and digital first, our disruptive approach will drive revolution throughout the organization. Synergies between our insight from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

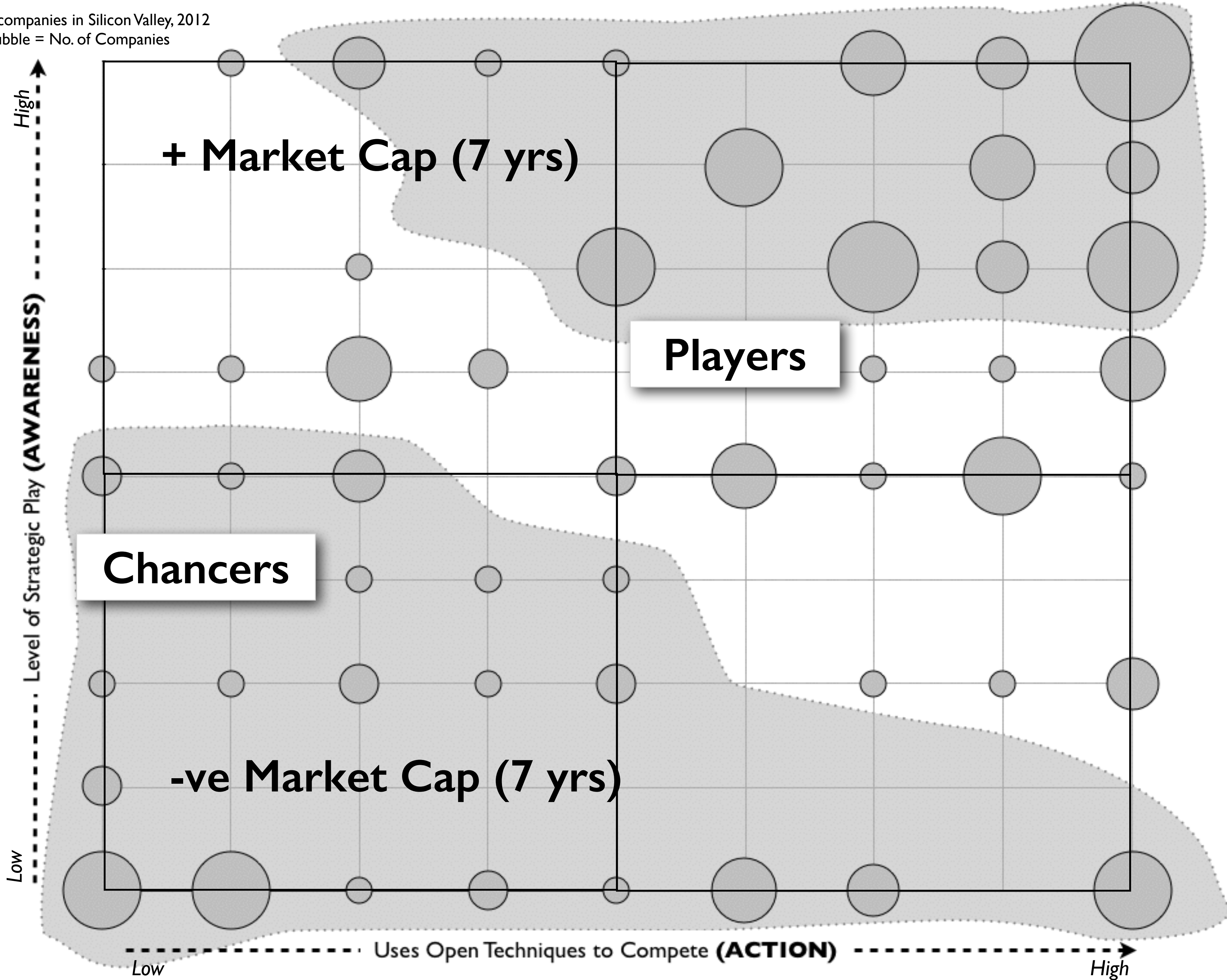
<http://strategy-madlibs.herokuapp.com/>  
by Bill West



# In Business ...



160 Hi-Tech companies in Silicon Valley, 2012  
Size of the bubble = No. of Companies





NB

**97% of execs consider strategy to be critical to  
future success**

**Most business strategy is a tyranny of  
action over  
situational awareness**

**Lack of situational awareness has a negative  
impact on outcome.**



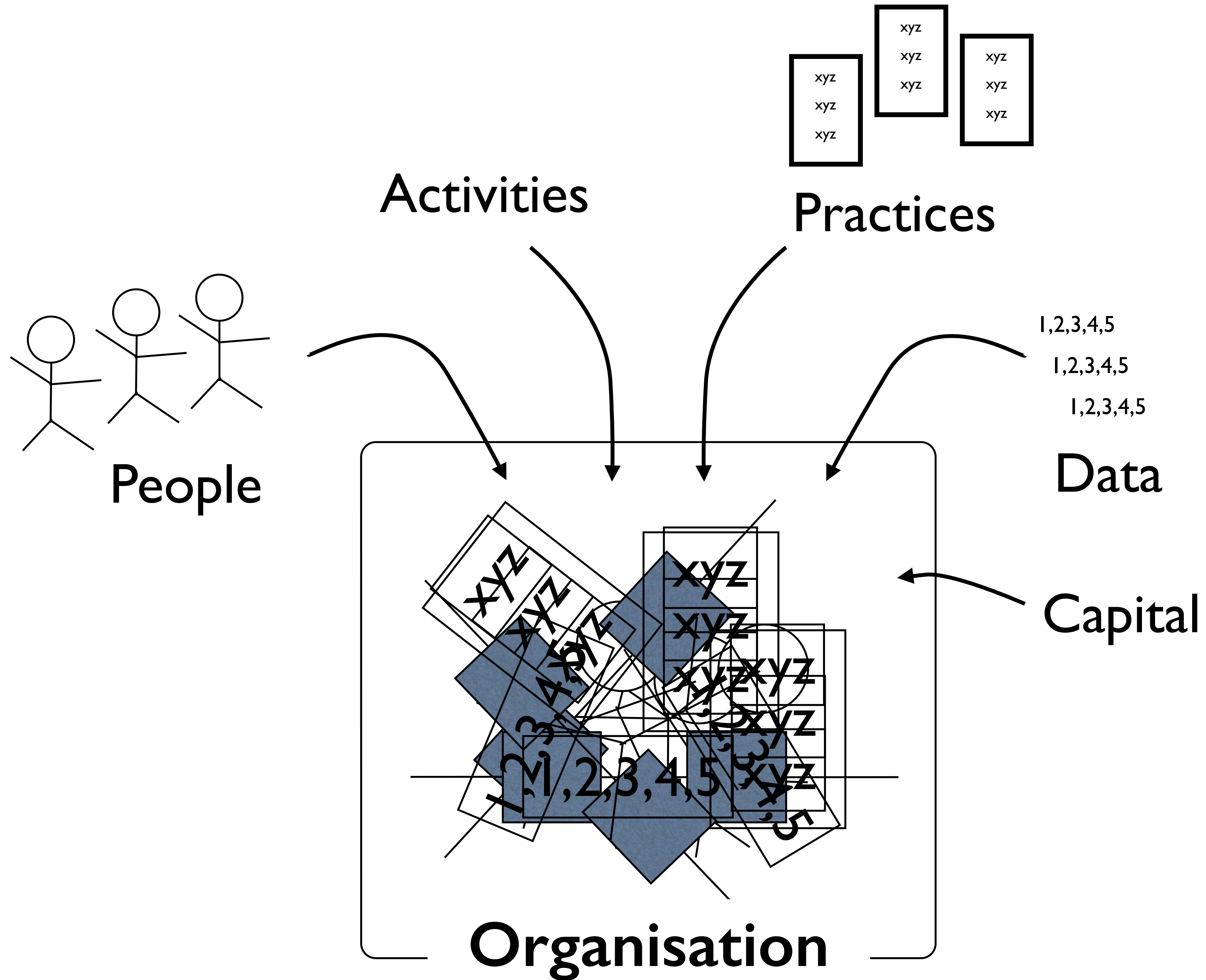


How to?

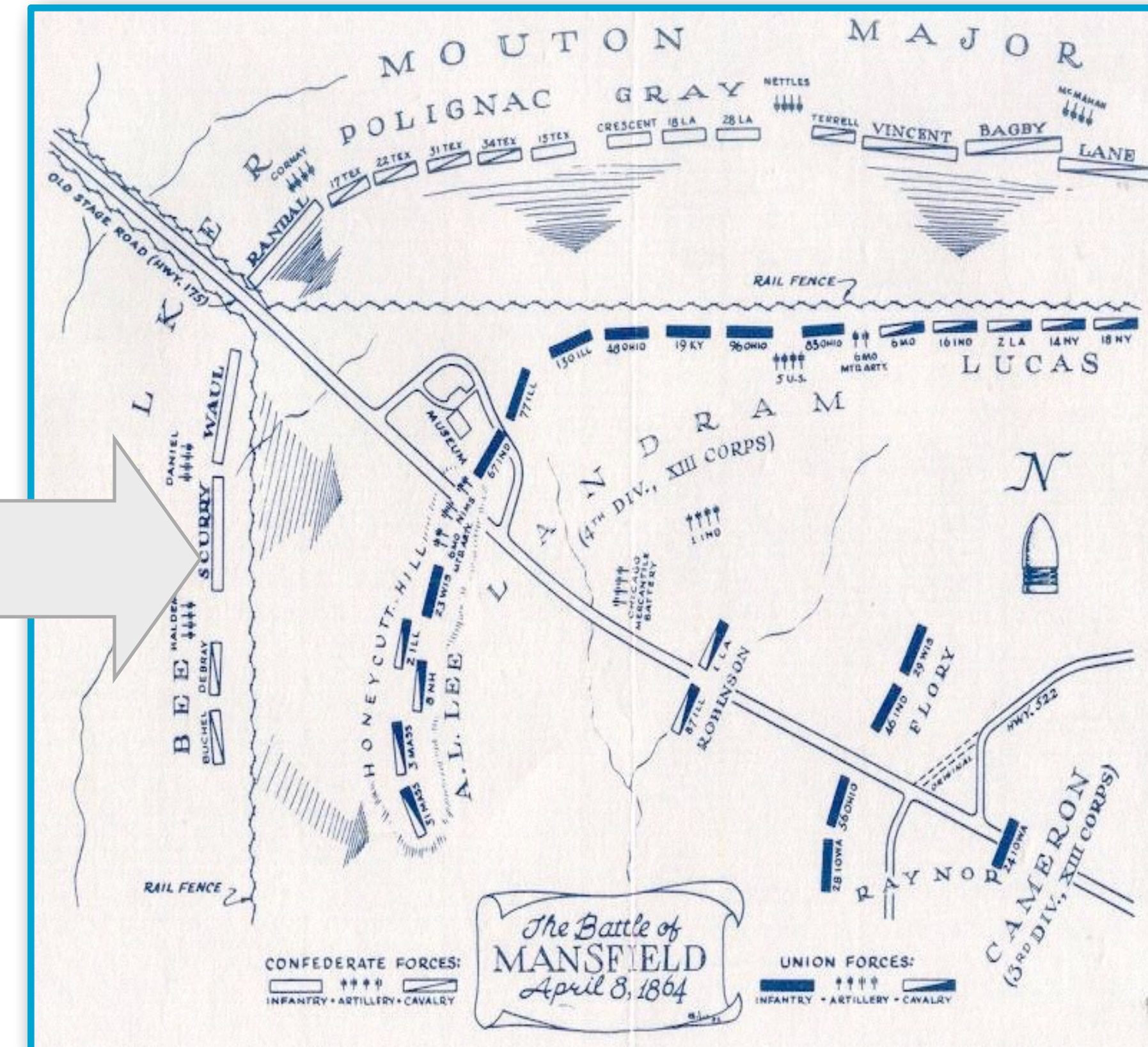
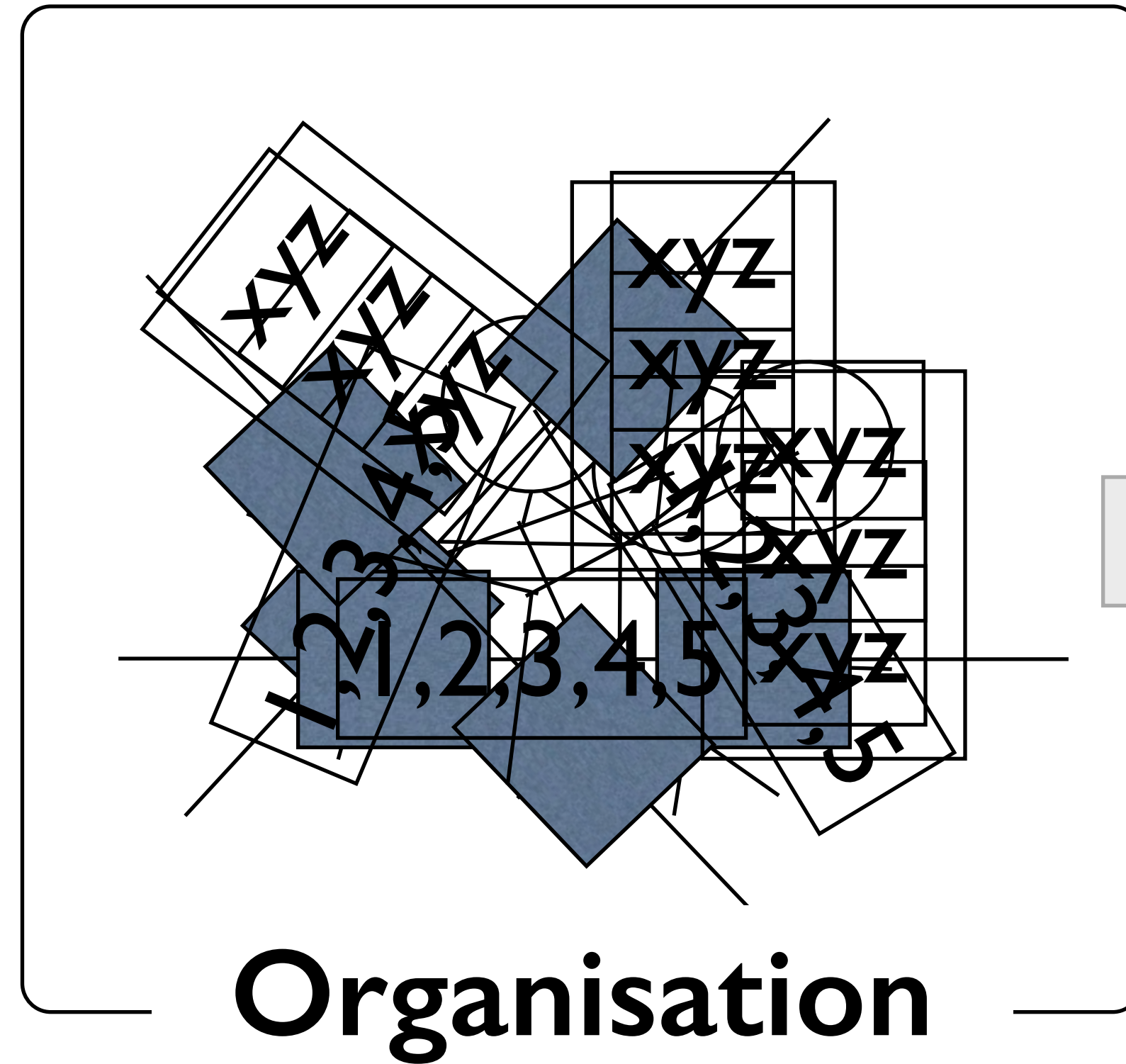
The image shows a historical map of Africa, likely from a 19th-century travelogue or expedition report. The map is titled 'AFRICA' and includes various geographical features and labels. A yellow box with the text 'How to?' is positioned over the map, and a dashed arrow points from it to another yellow box with the text 'Why?' located further down the page. The map itself is a detailed representation of the African continent, showing major rivers, lakes, and coastal regions. The text 'OCEANUS OCCIDENTALIS' is visible on the left side, and 'MARE MEDITERRANEUM' is at the top. The map is oriented with North at the top.

Why?



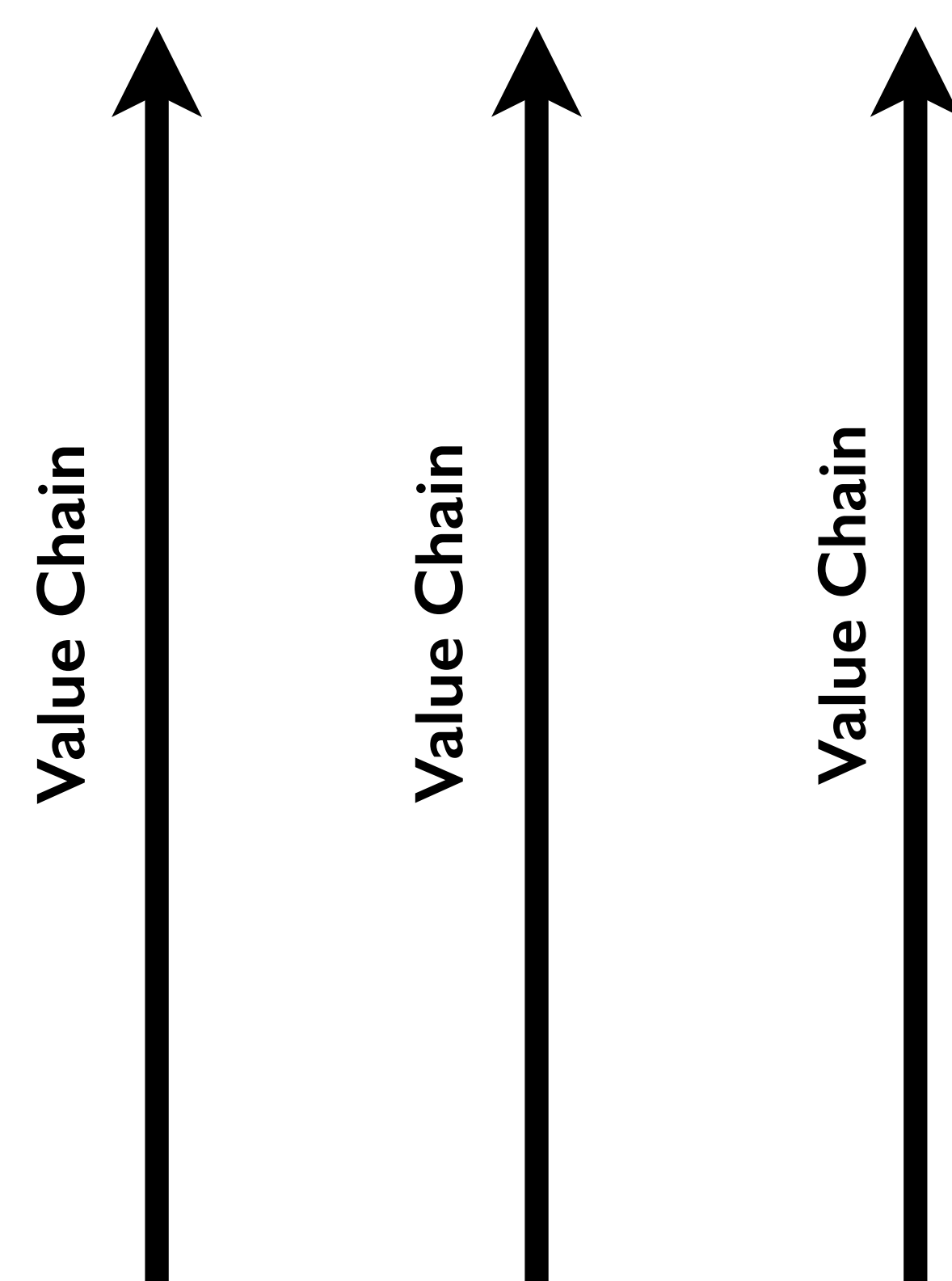
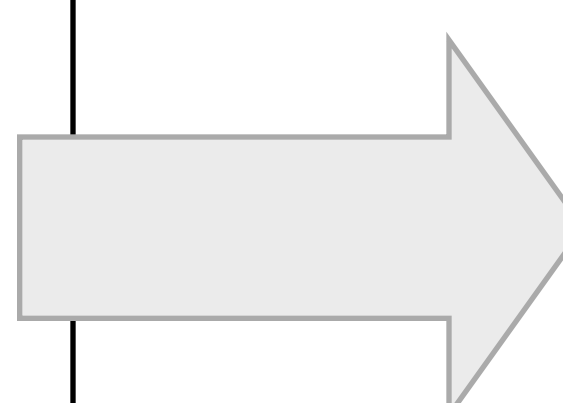
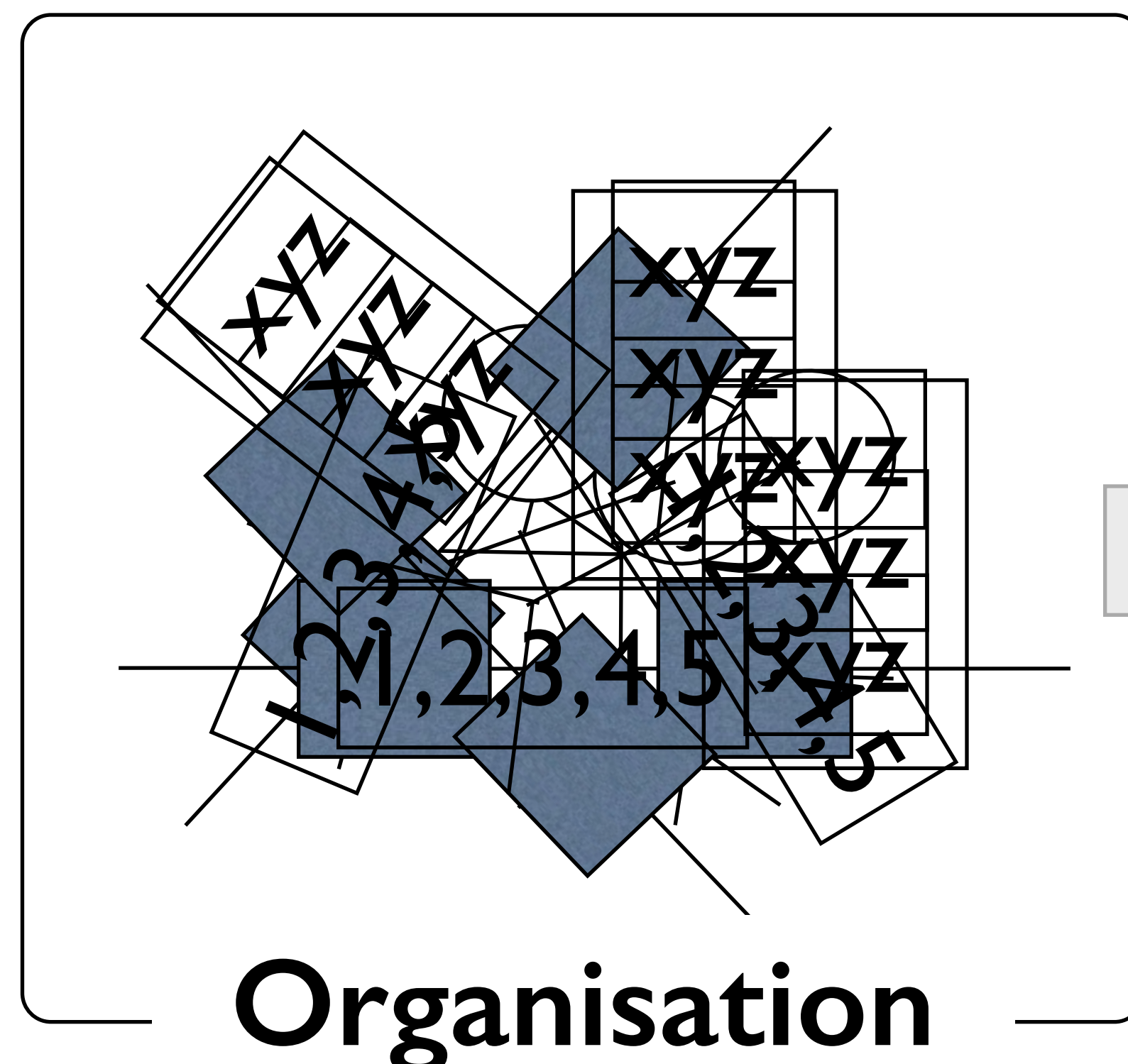




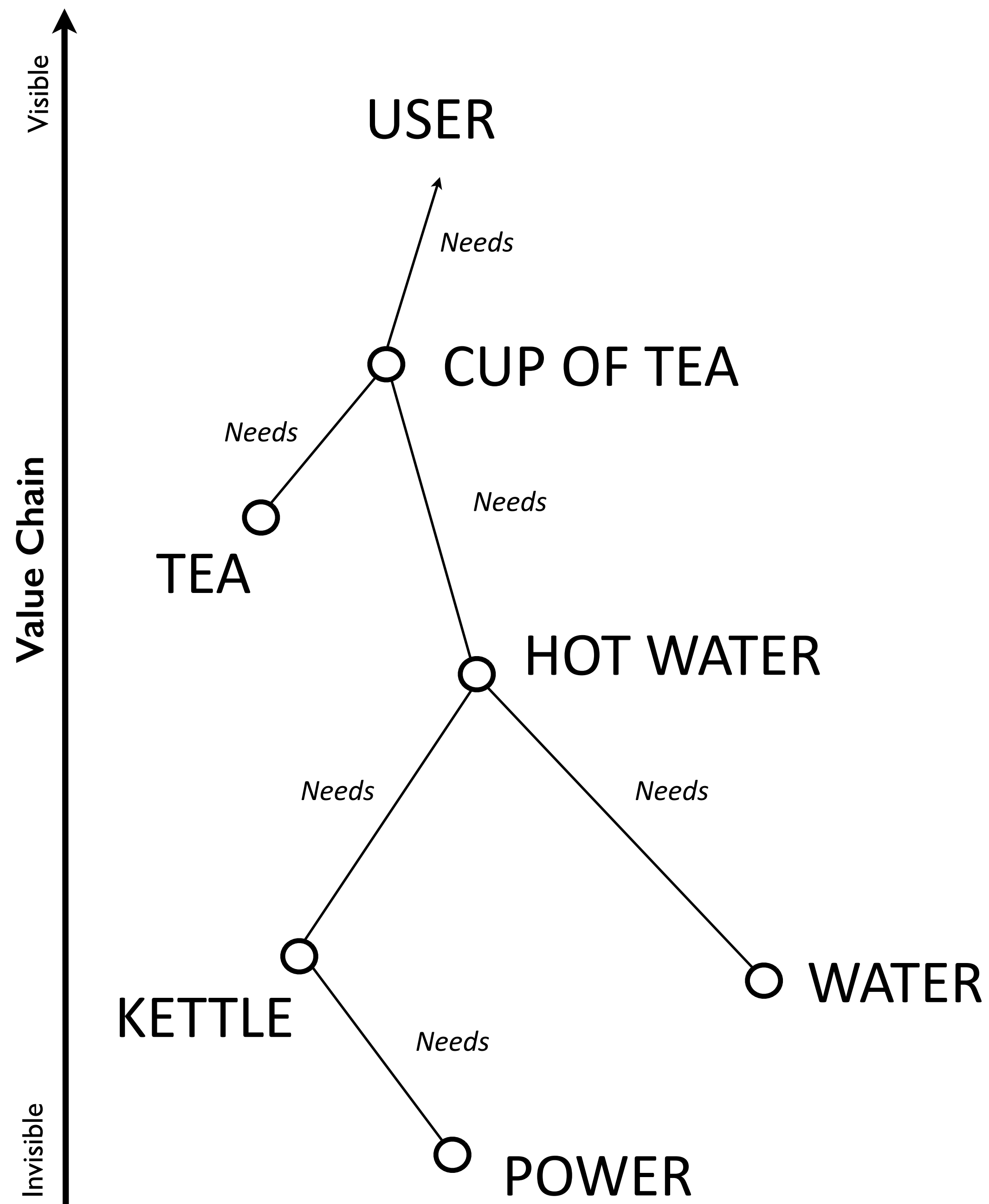


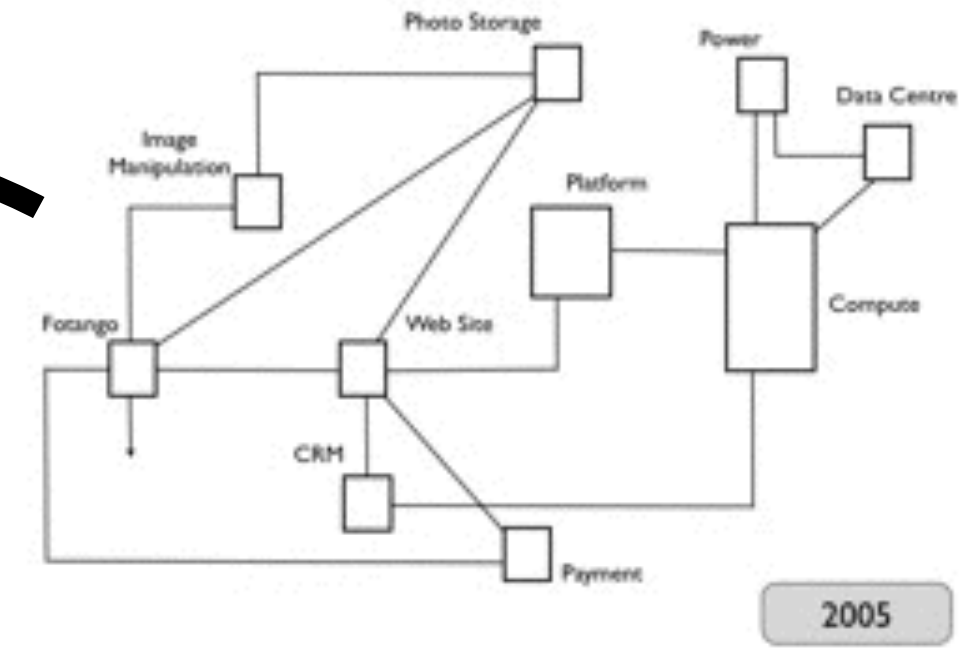
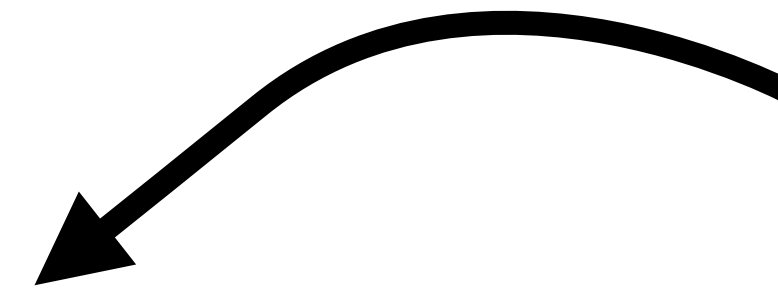
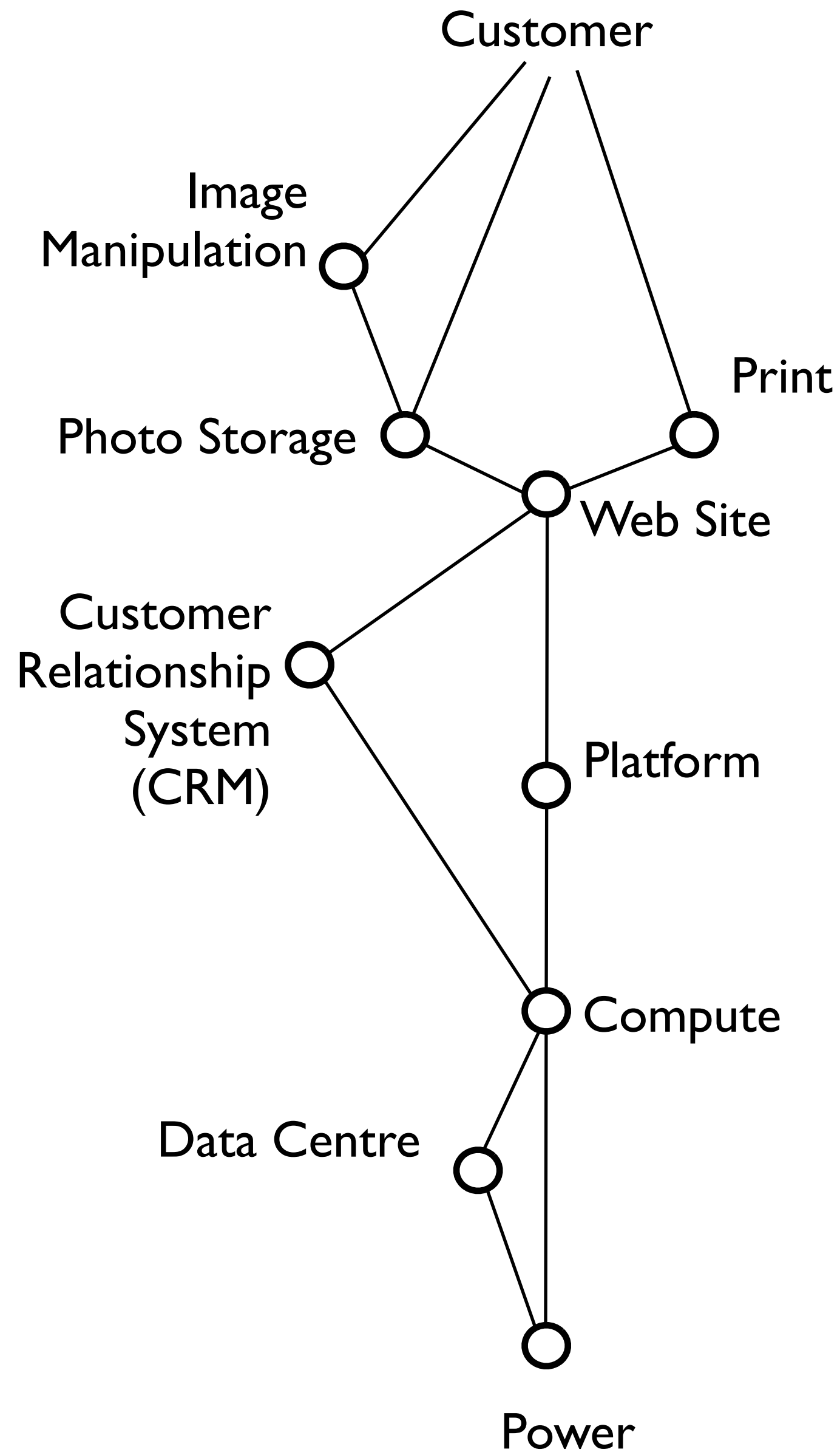
Map



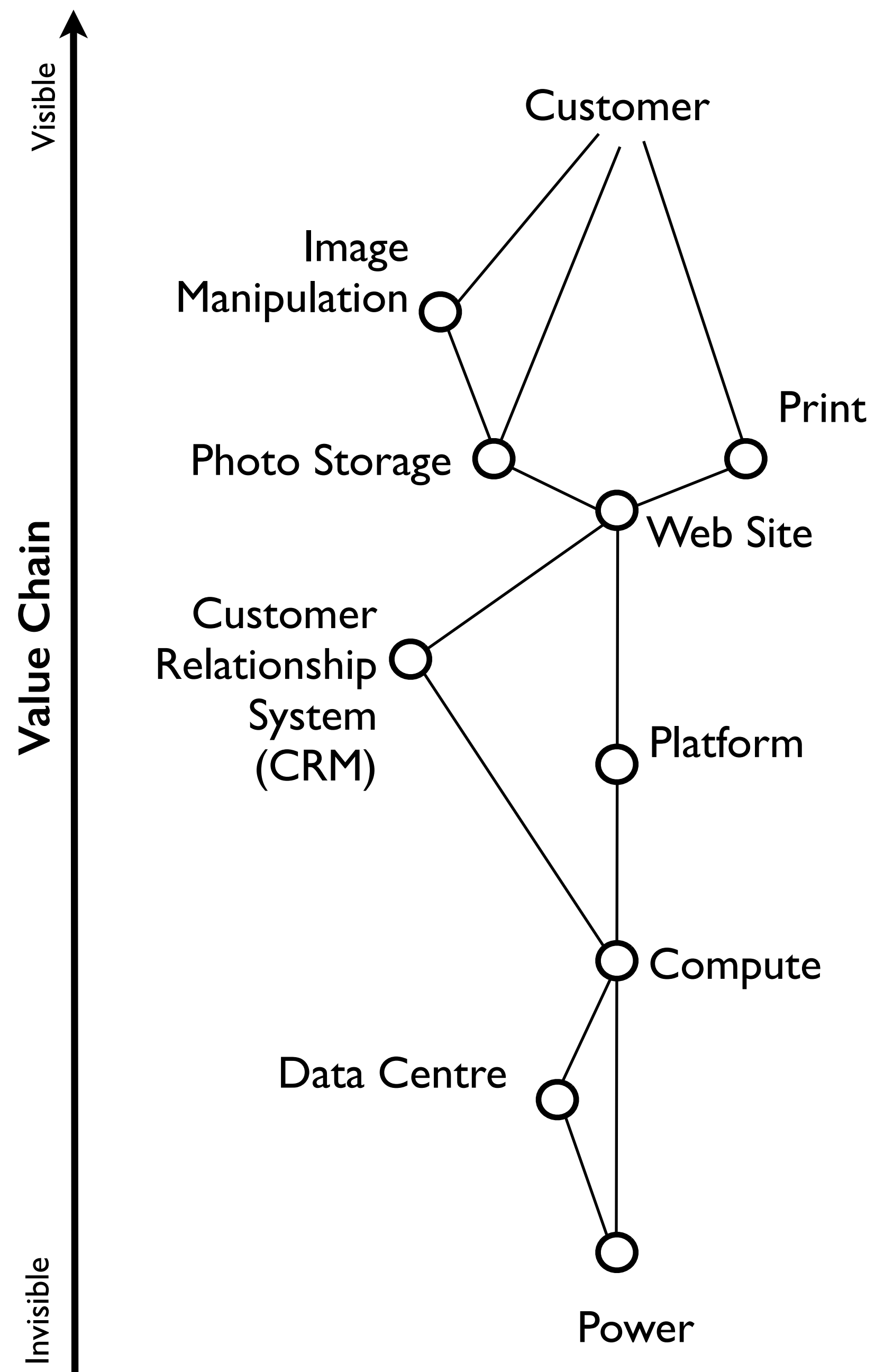








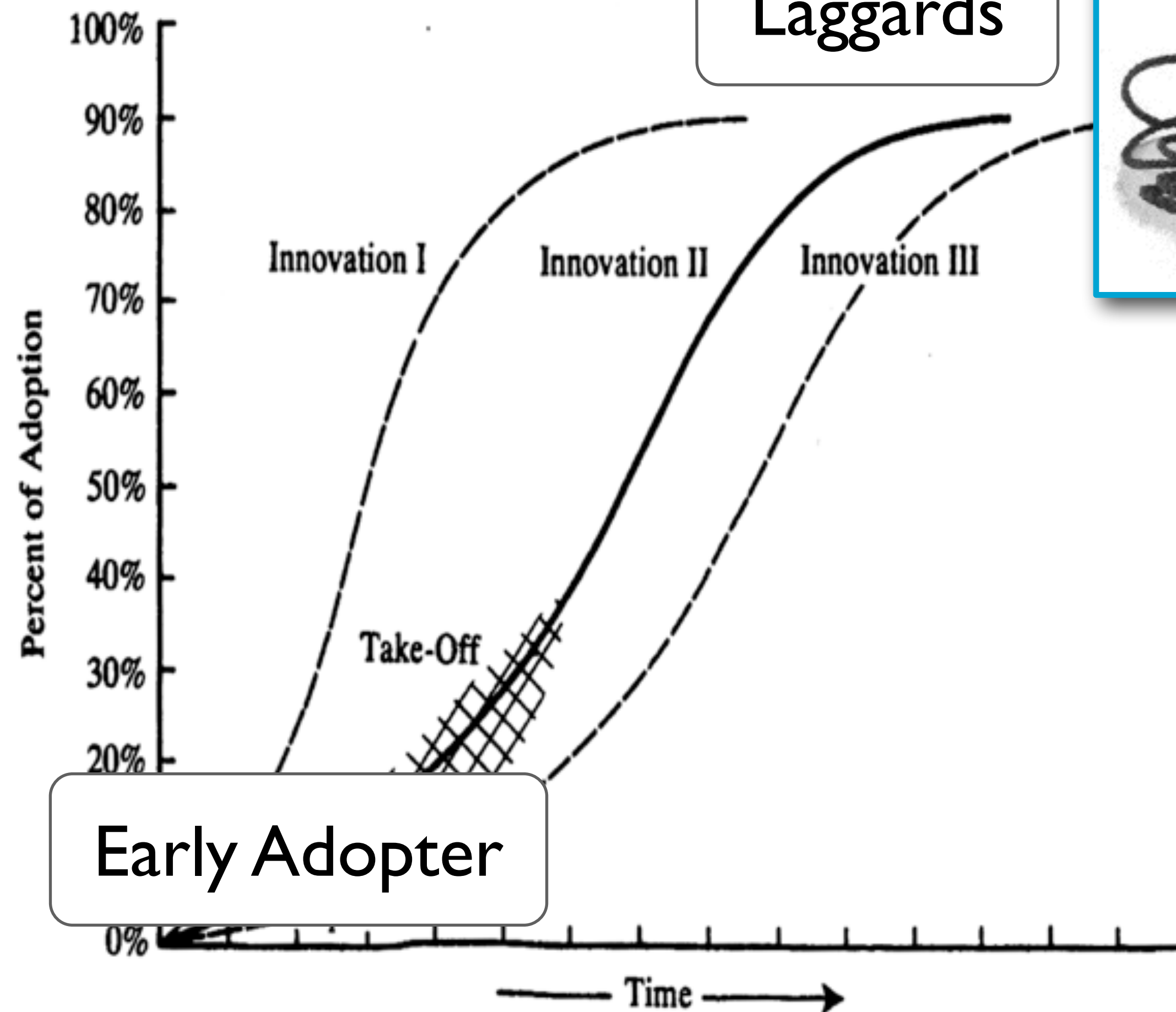




POSITION

**BUT  
No movement**

Figure 1-2. The Diffusion Process



Laggards

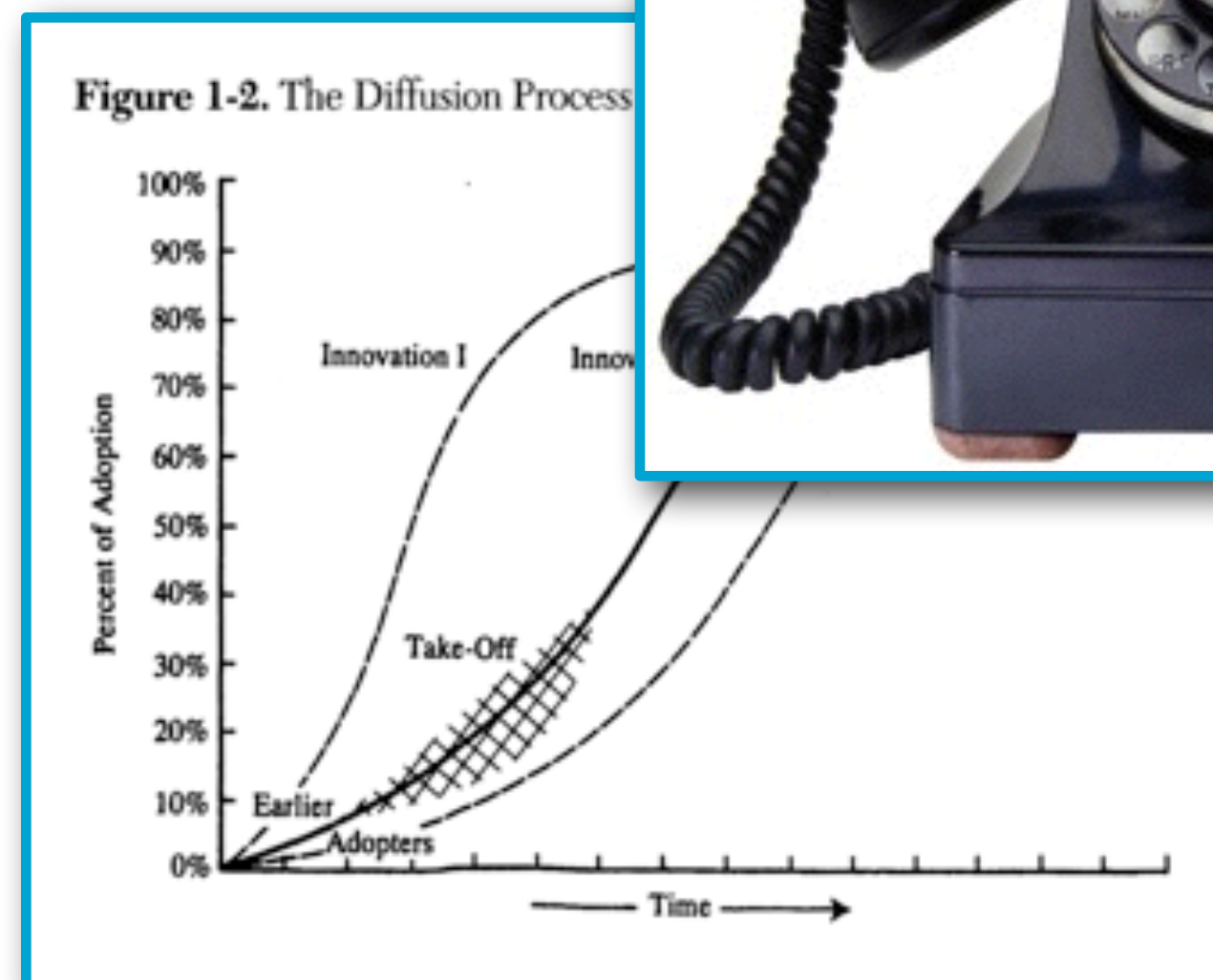
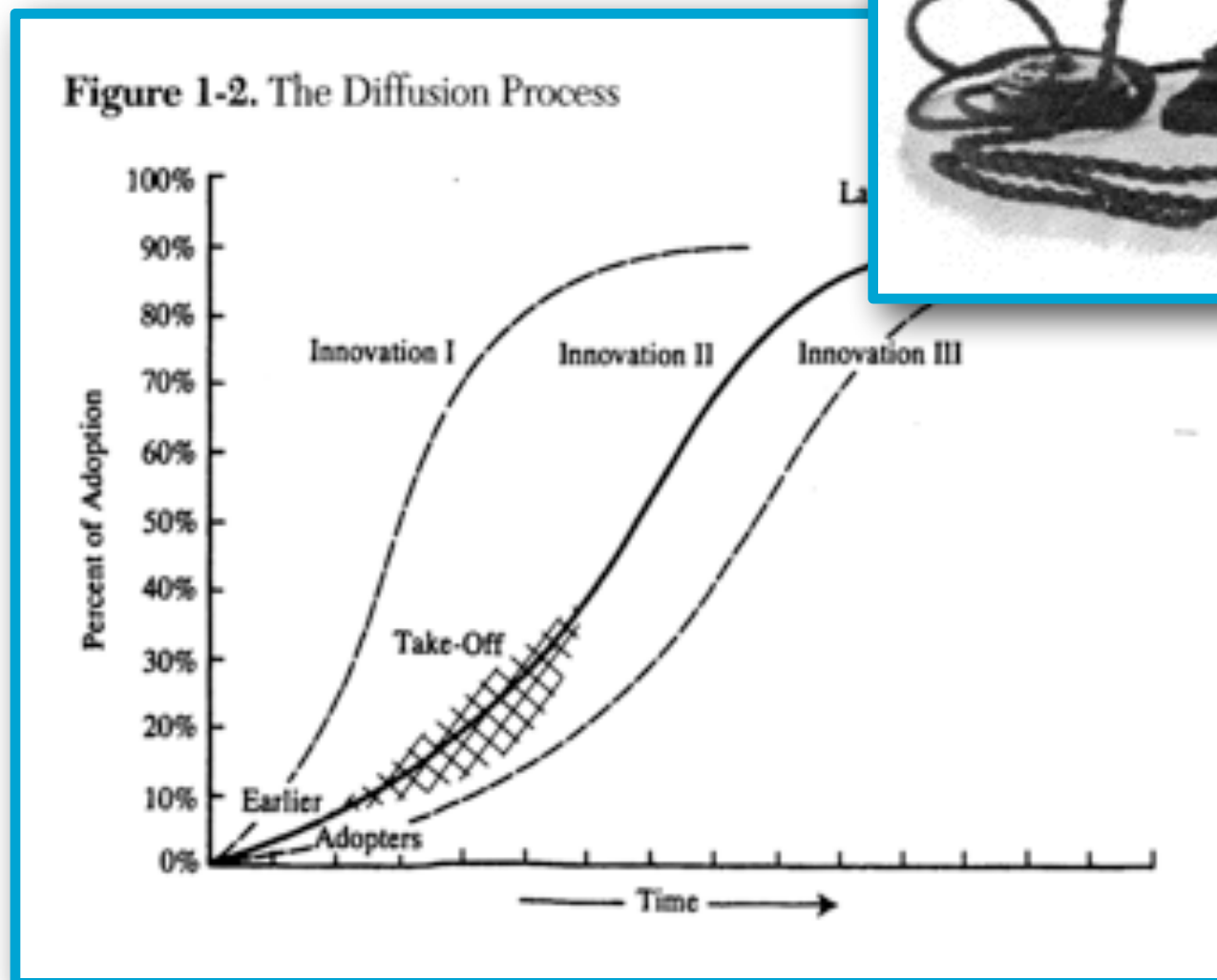
Early Adopter

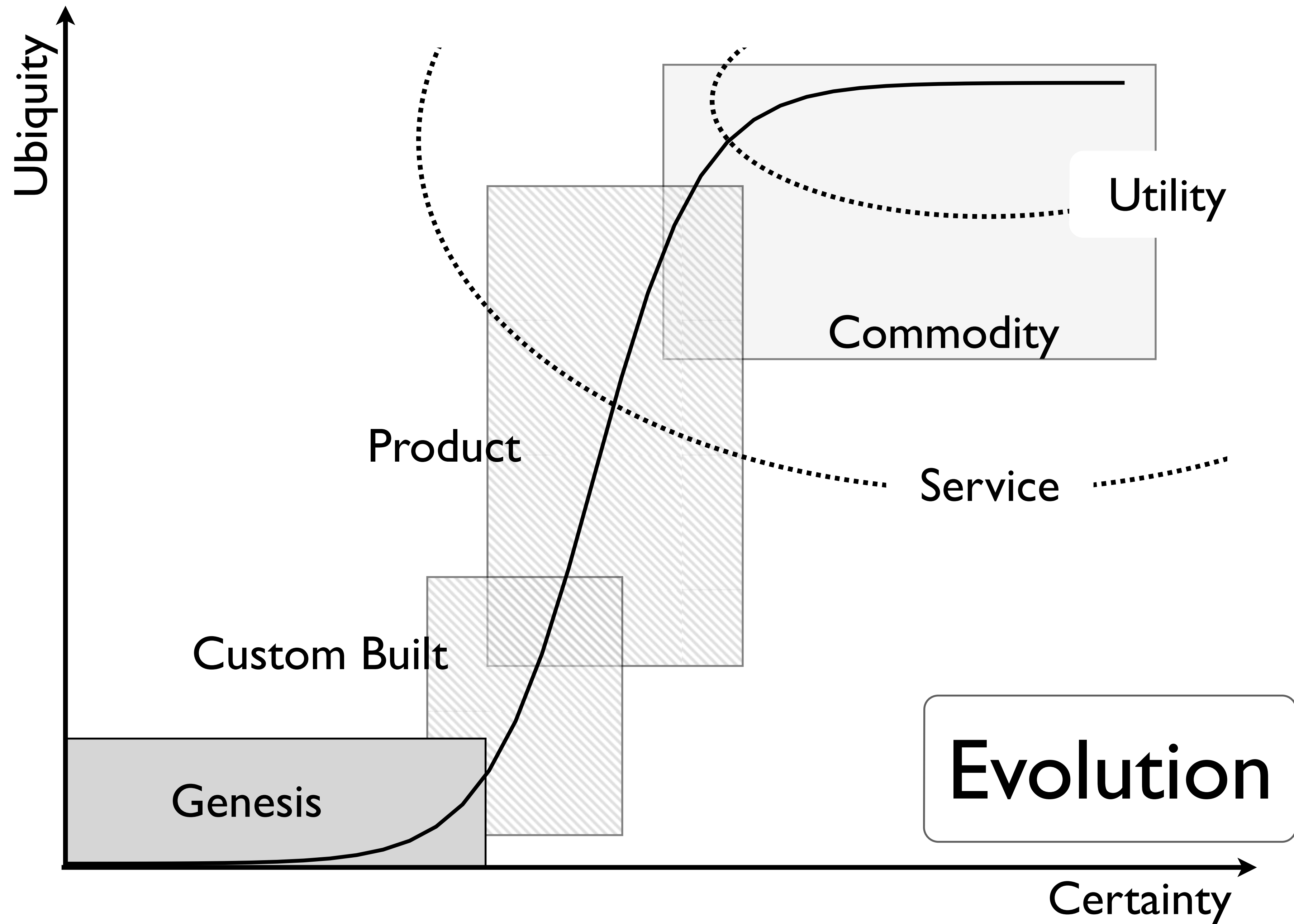




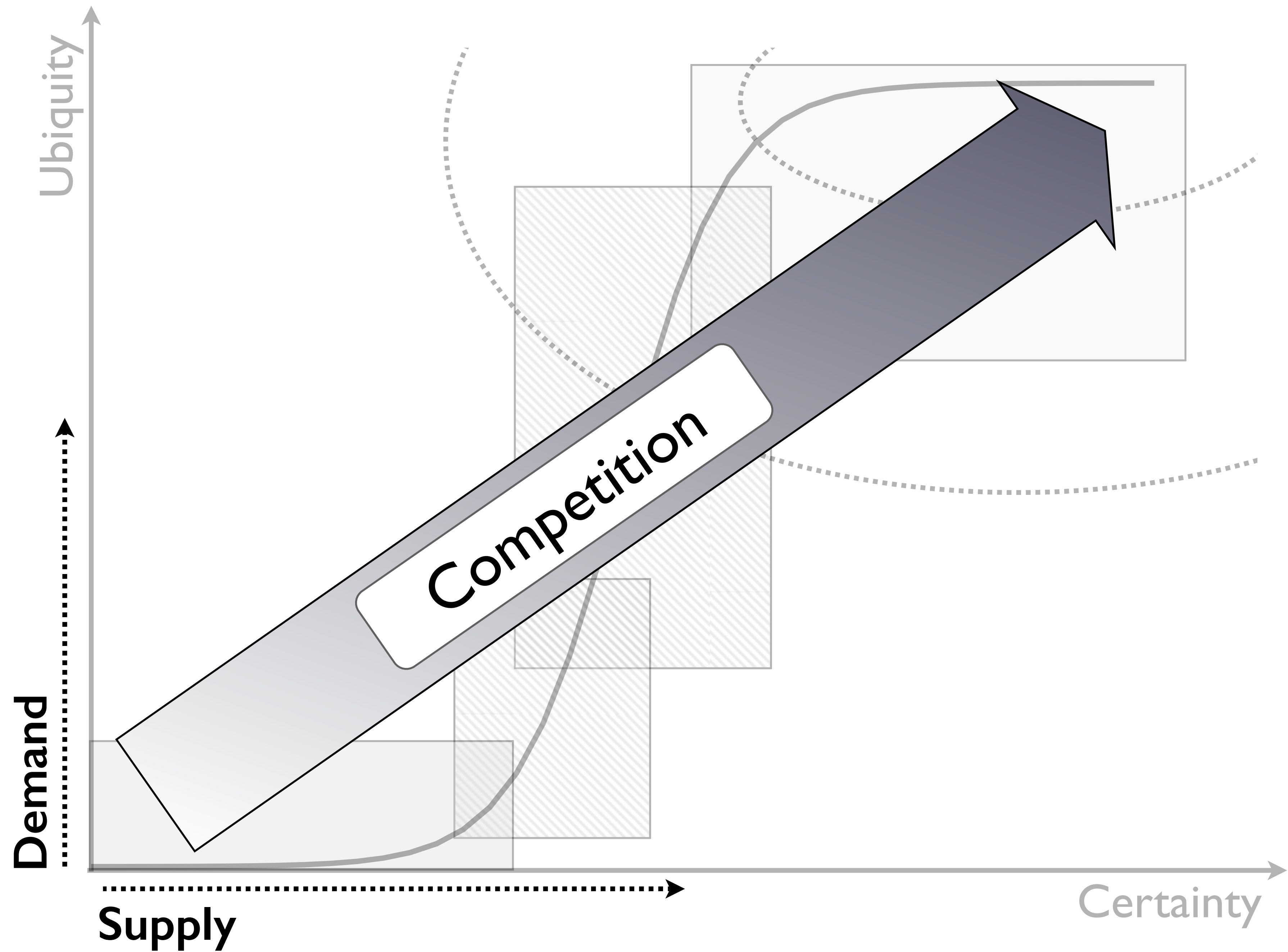


Evolve



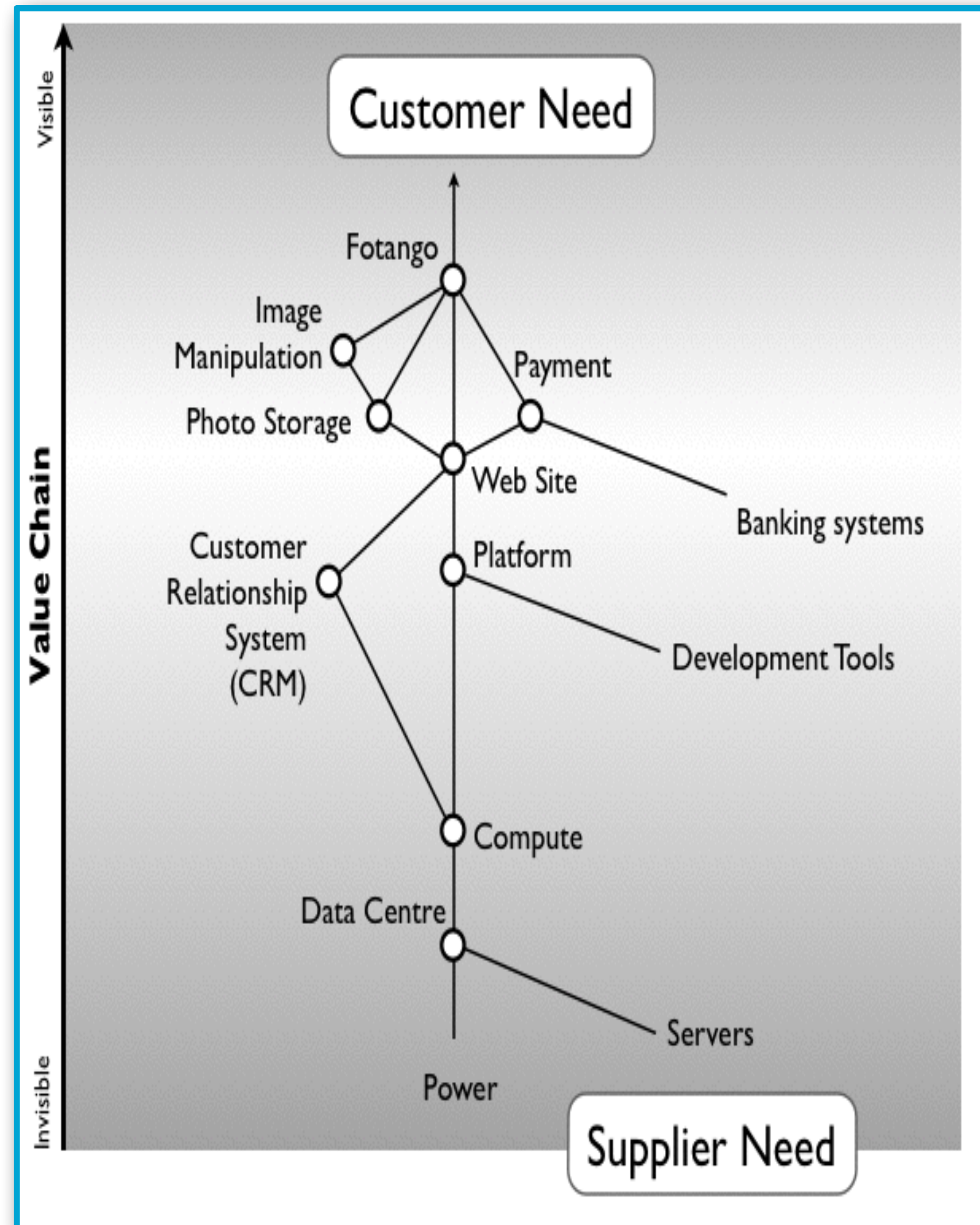






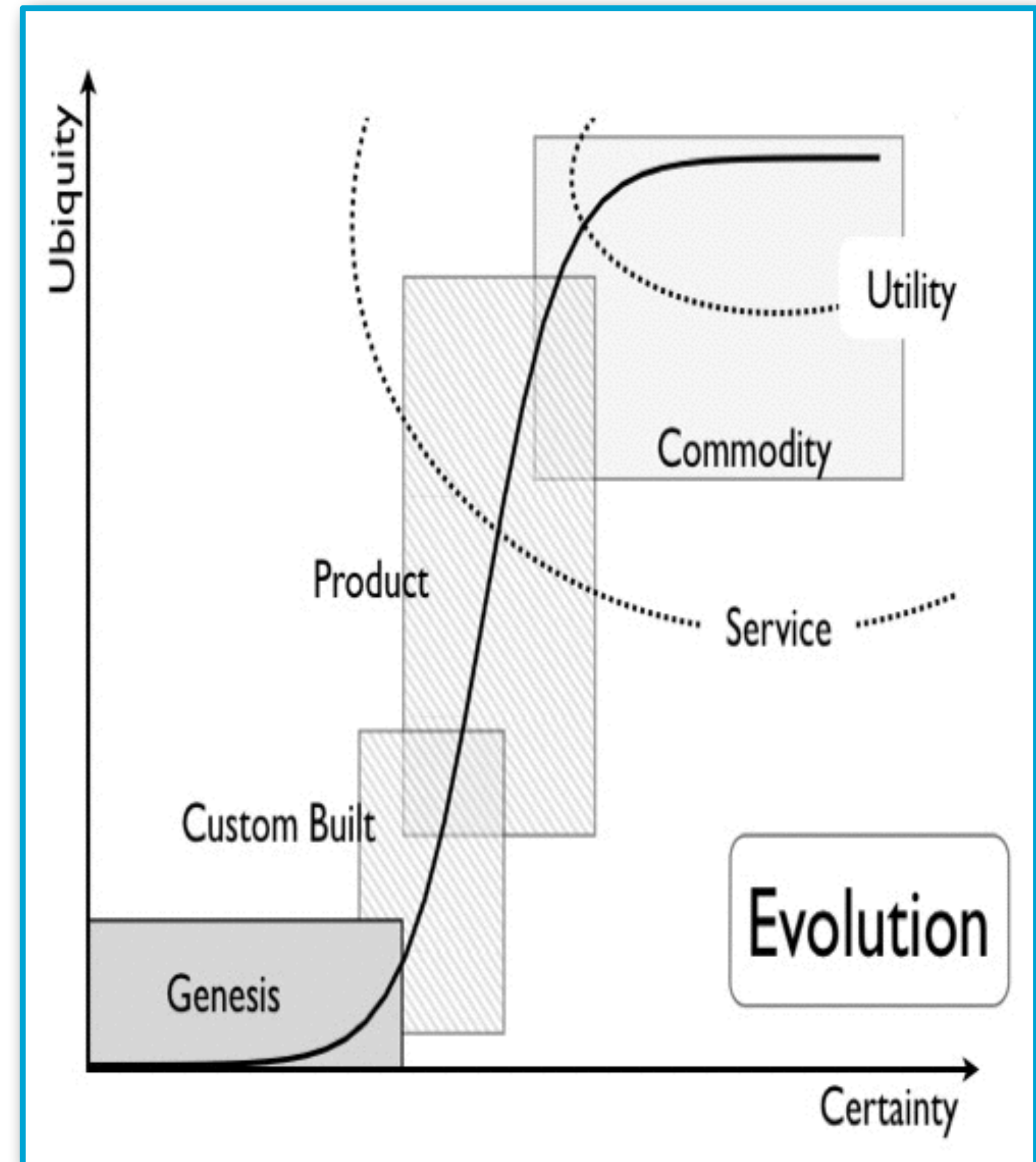
# Value Chain

*(describes organisation)*

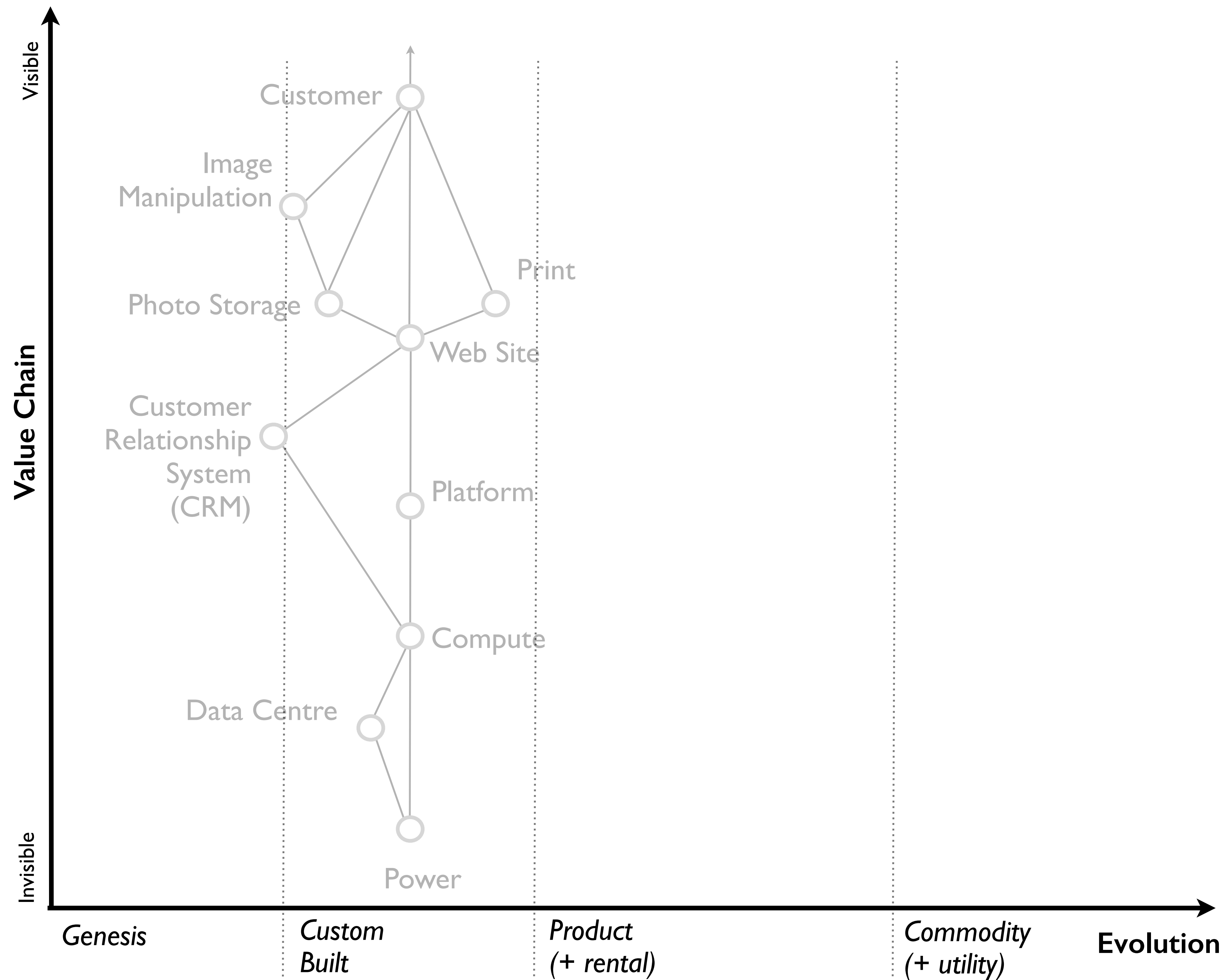


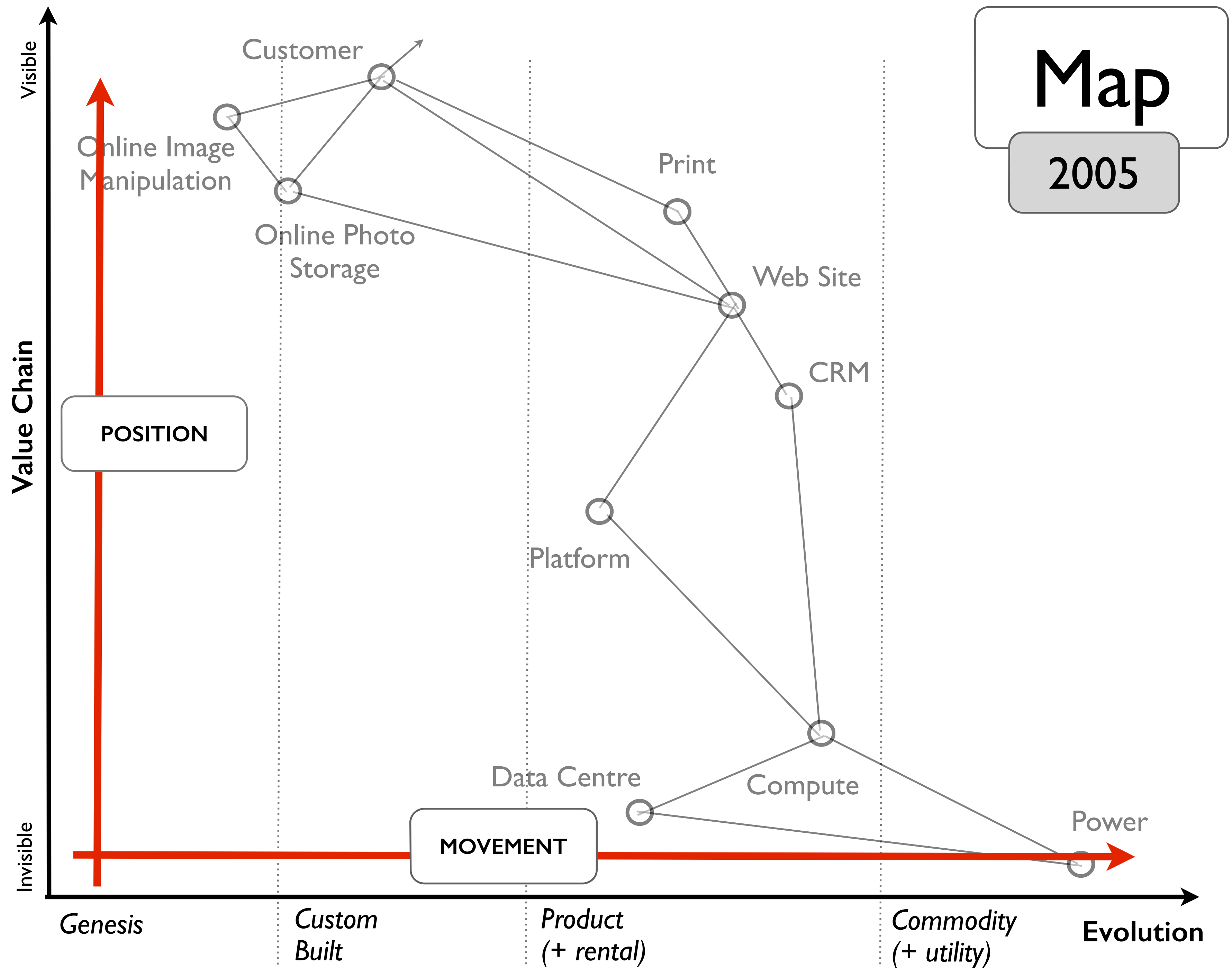
# Evolution

*(describes change)*











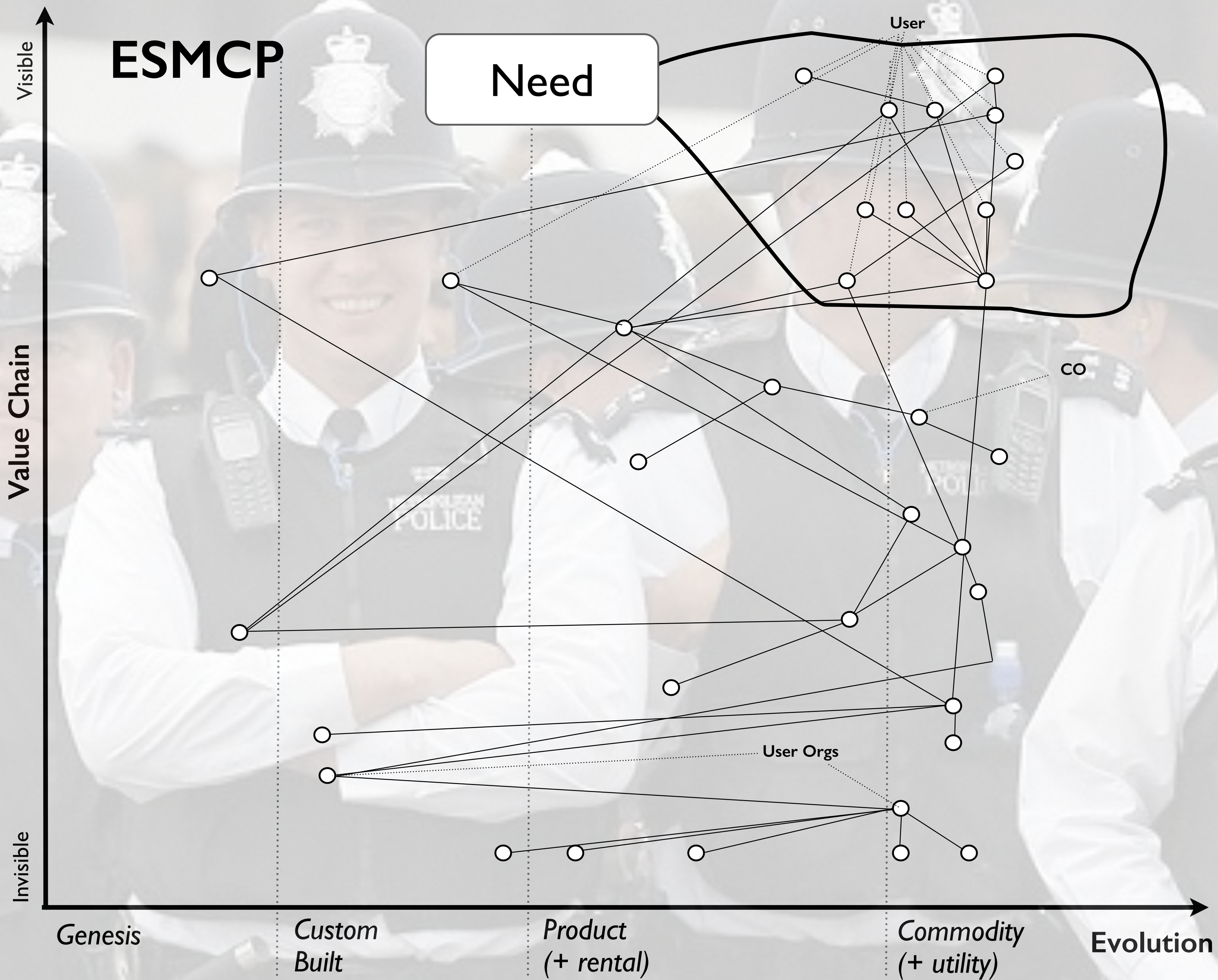
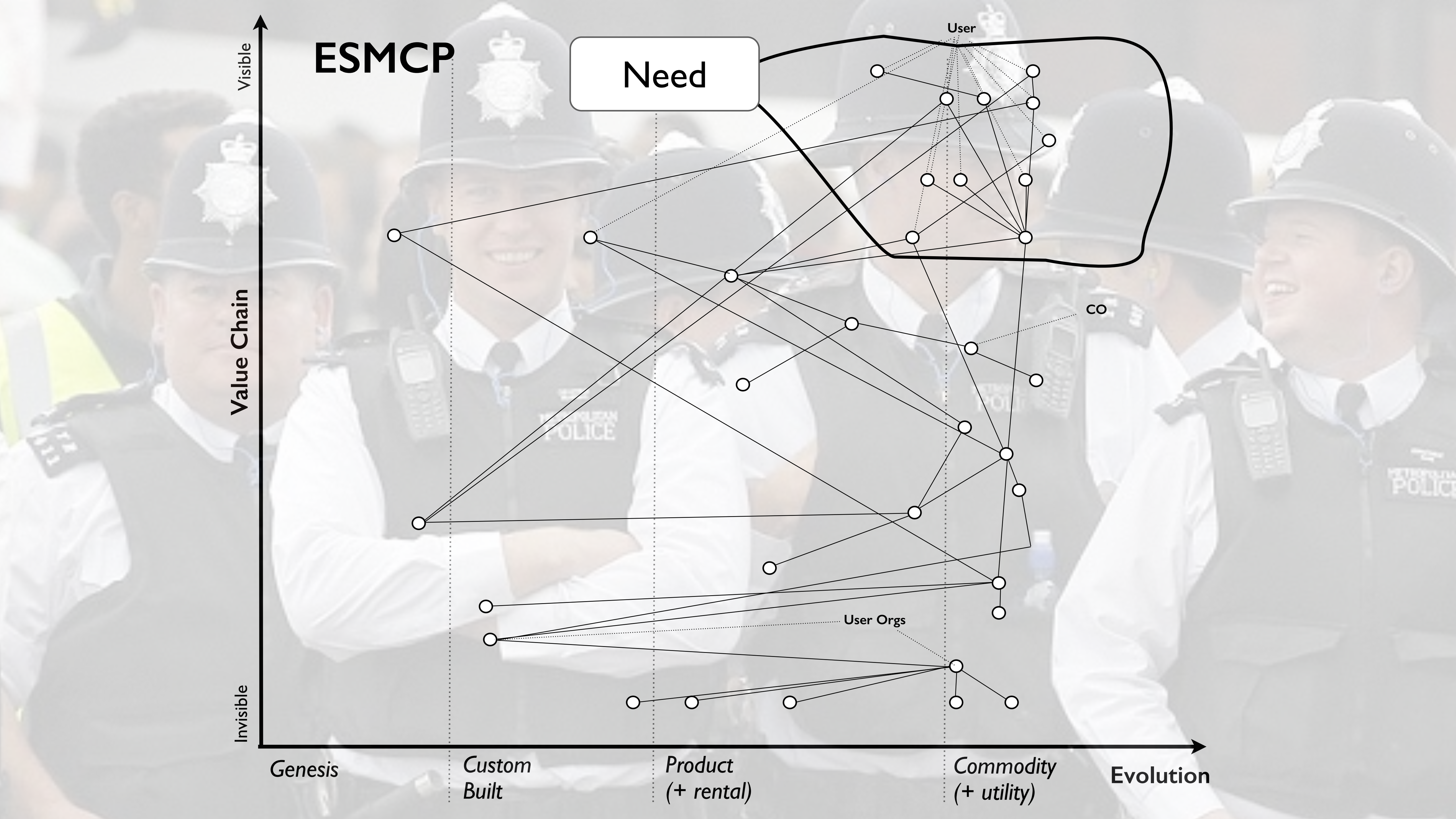


**So what?**

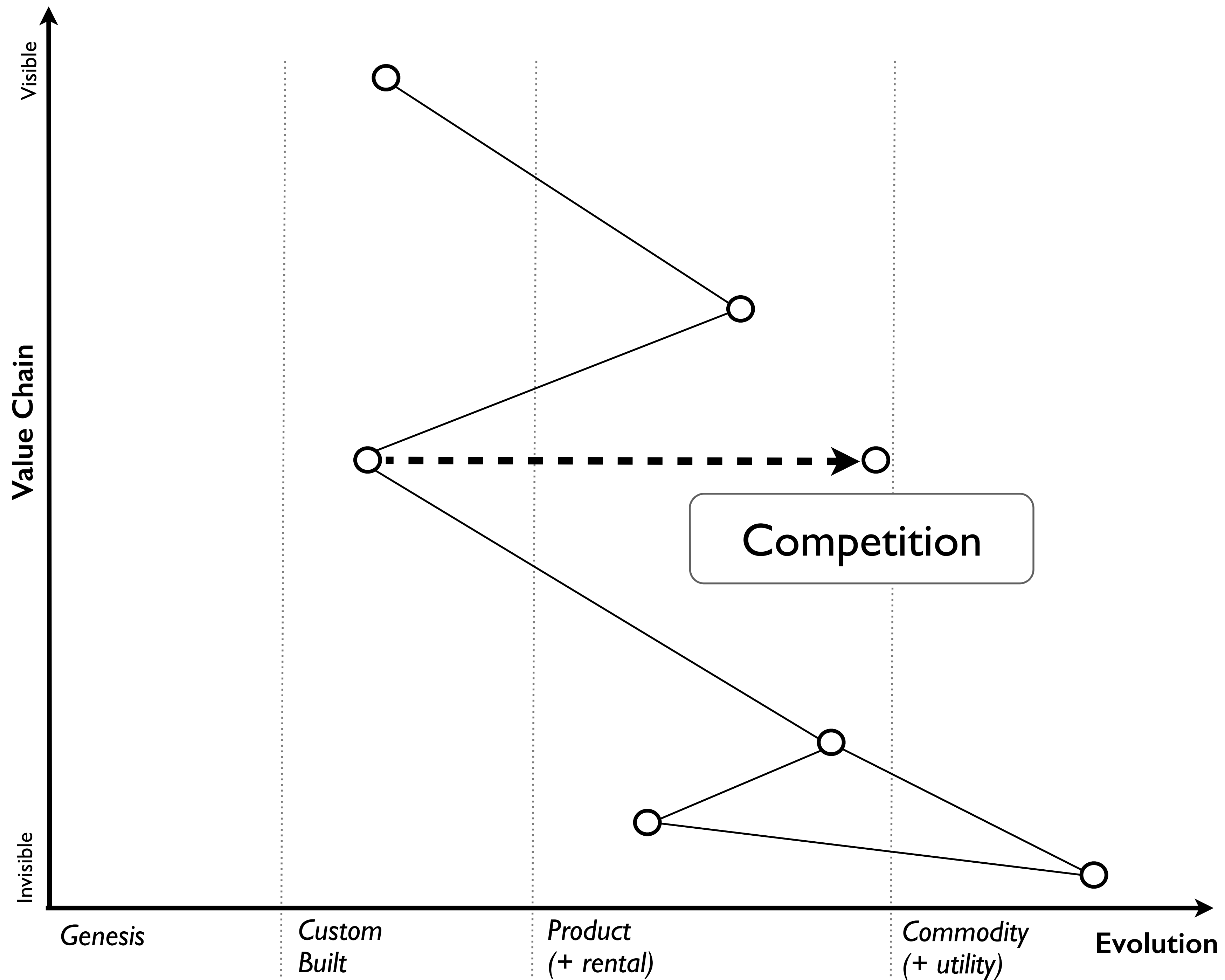
**How to?**

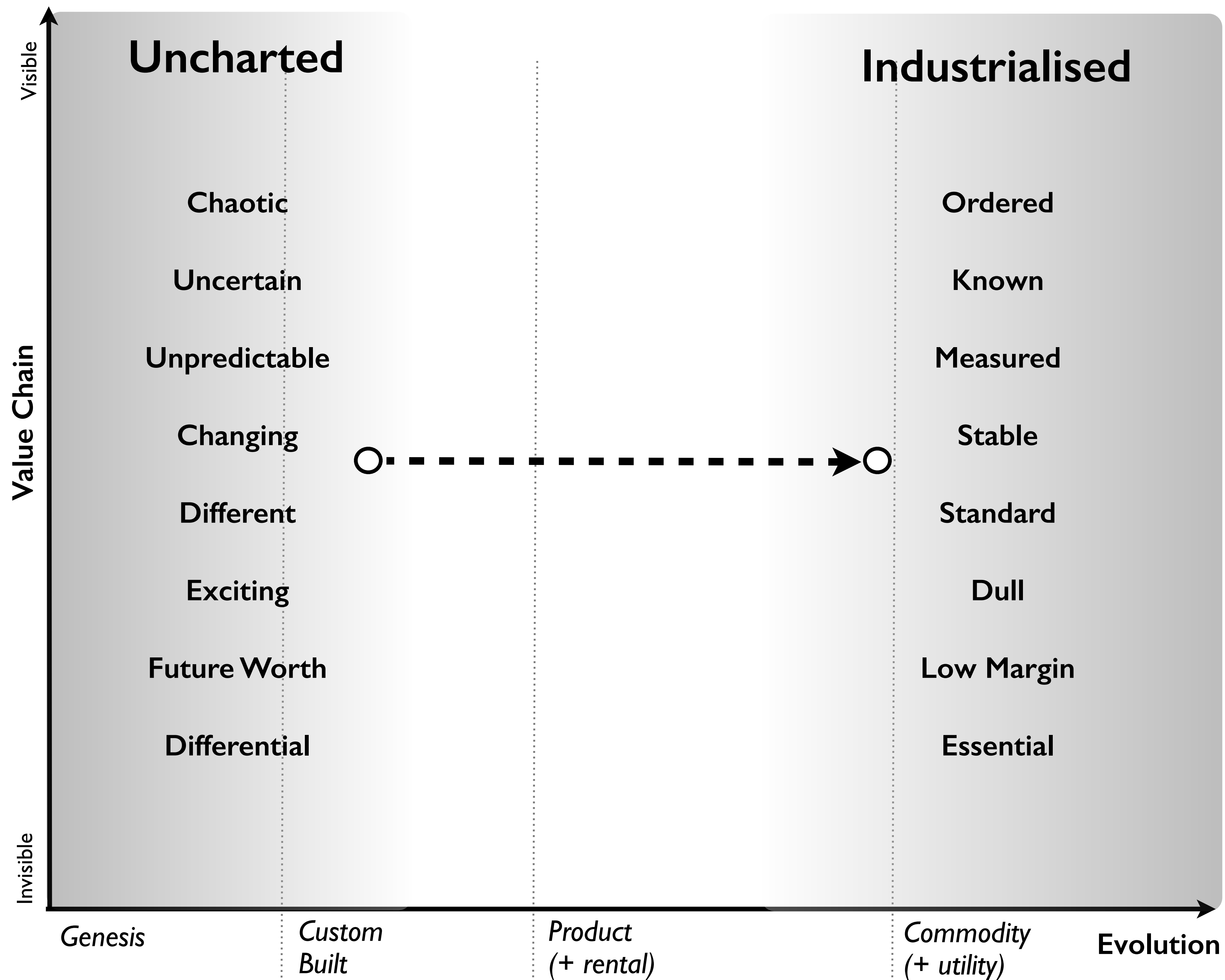
**Why?**



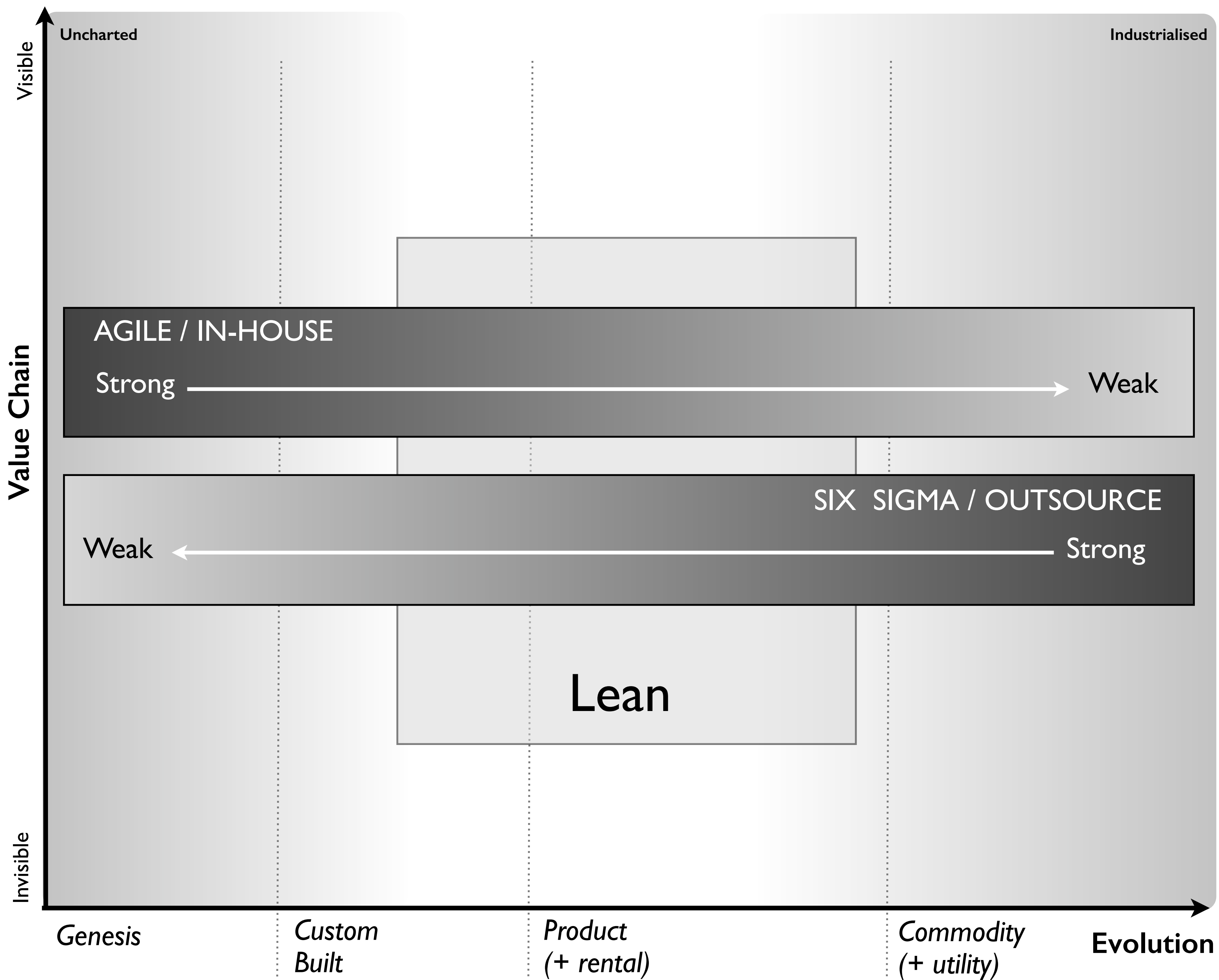




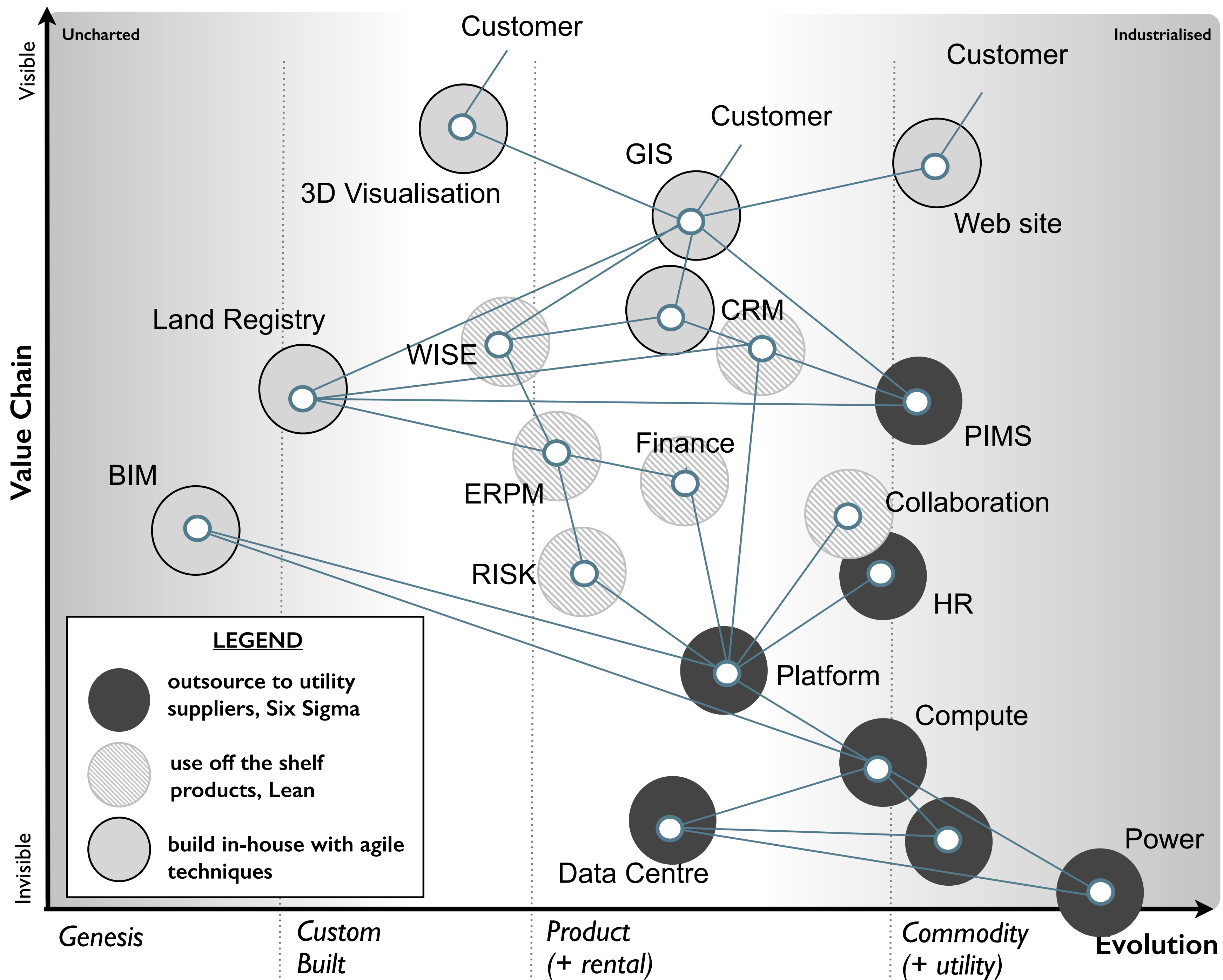


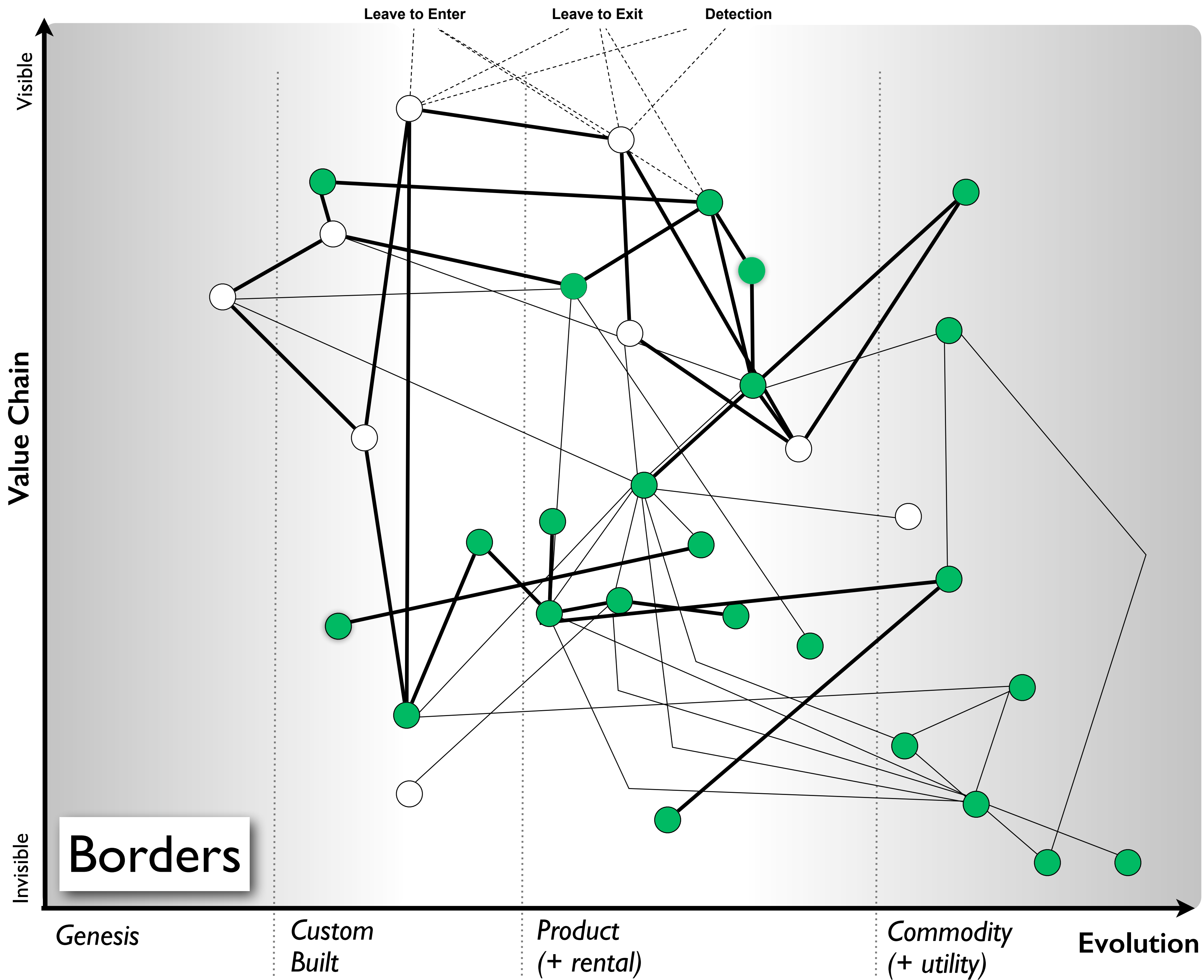




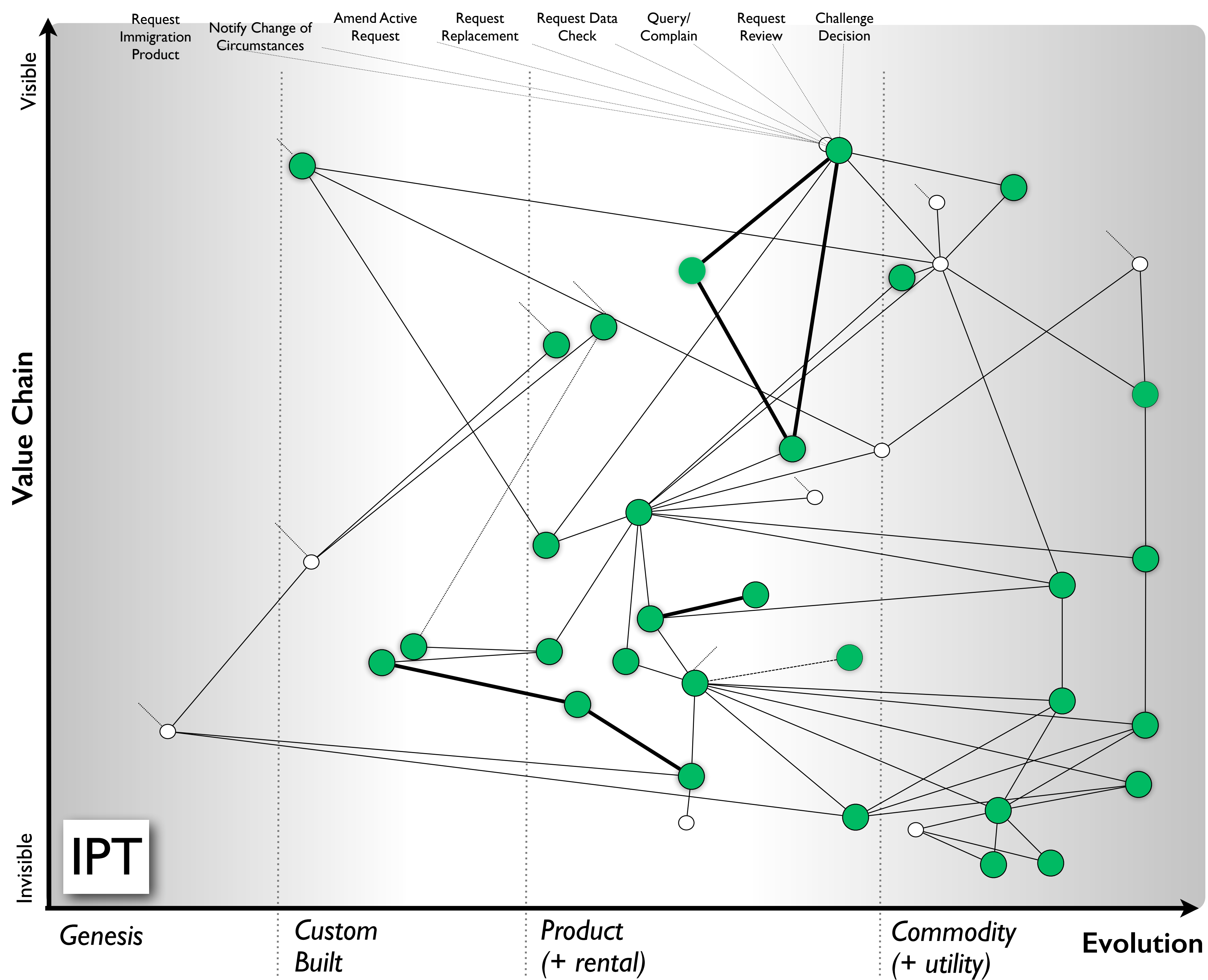


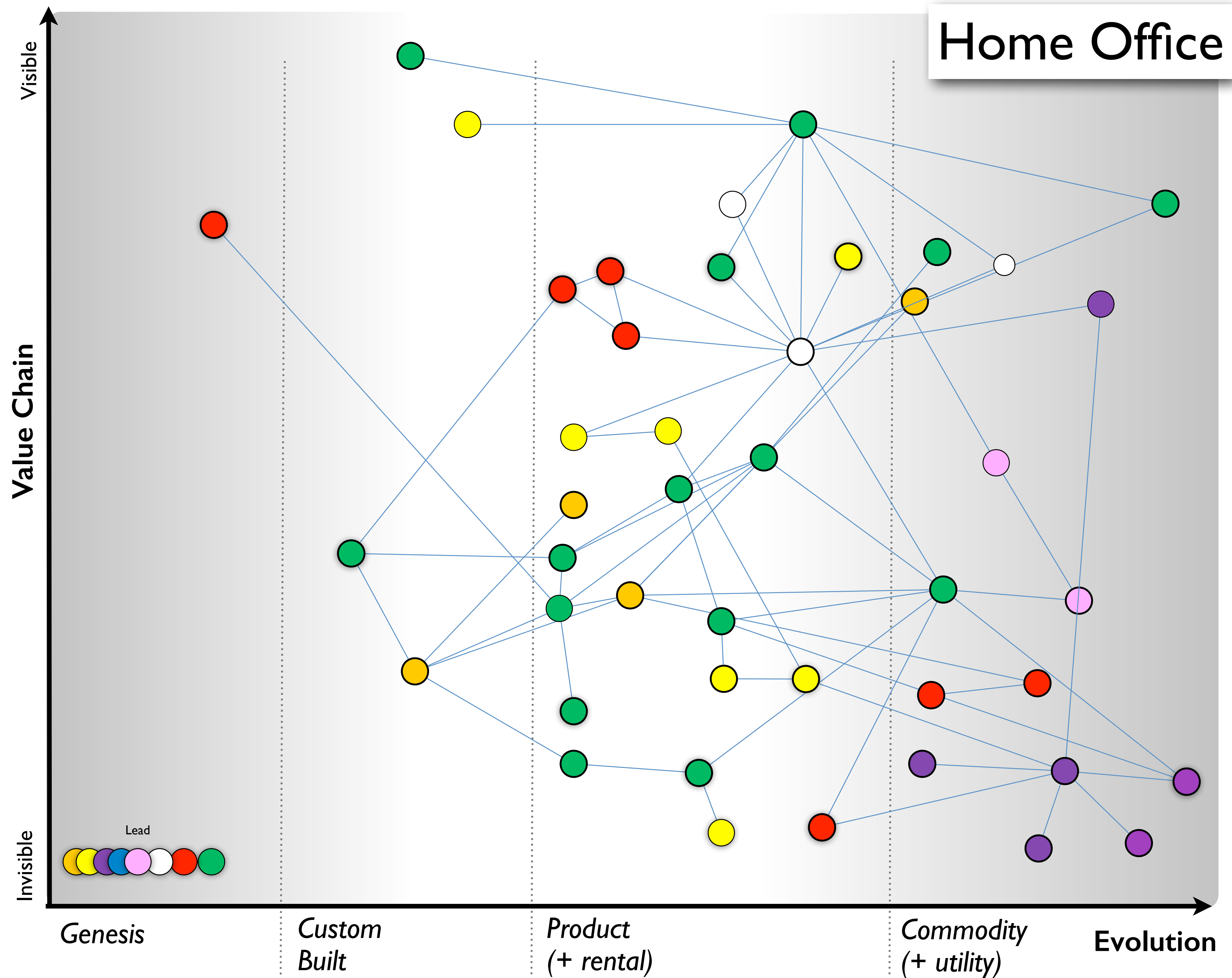














# IT Weapons of Mass Duplication

Number of Duplicate Efforts in a single Organisation	Technology Space	Industry
380	ERP system	Global Corporate
170 <i>unverified</i>	Cloud projects	Global Technology Vendor
118	Workflow systems	Government
22	Rules Engines	European Corporate
14	CRM system	Bank
6	General Rule of Thumb	Everywhere



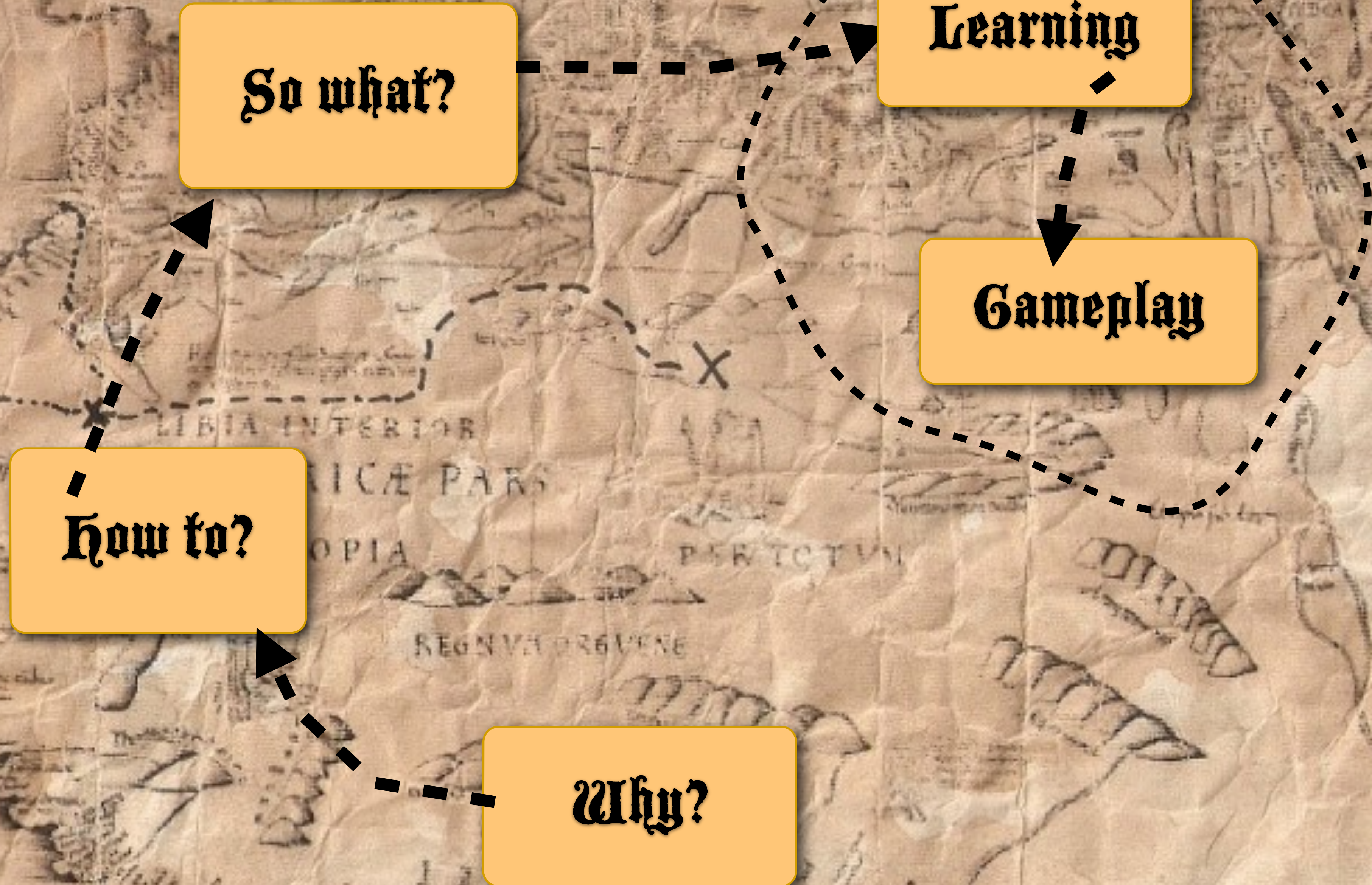
**So what?**

**Learning**

**Gameplay**

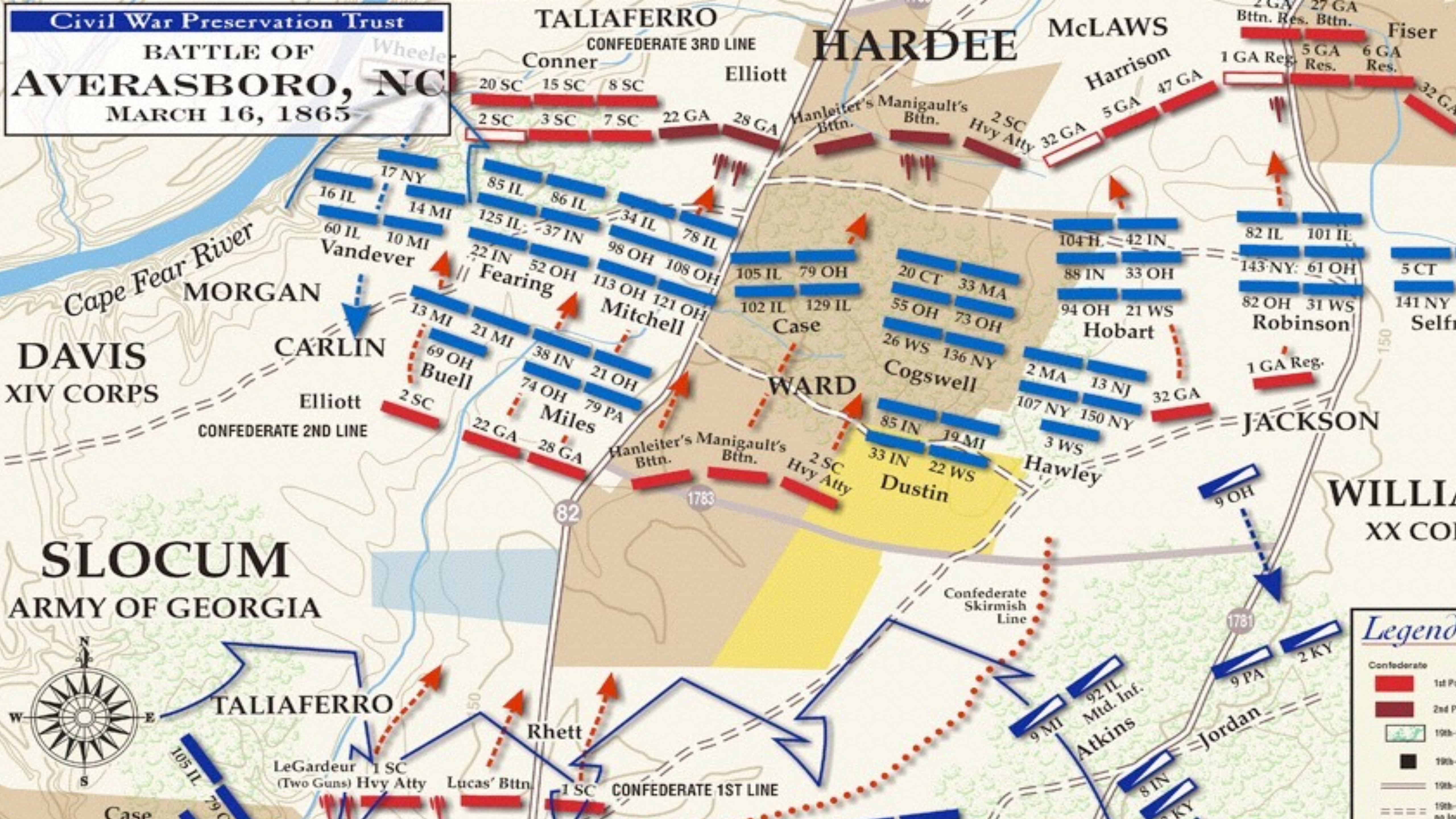
**How to?**

**Why?**

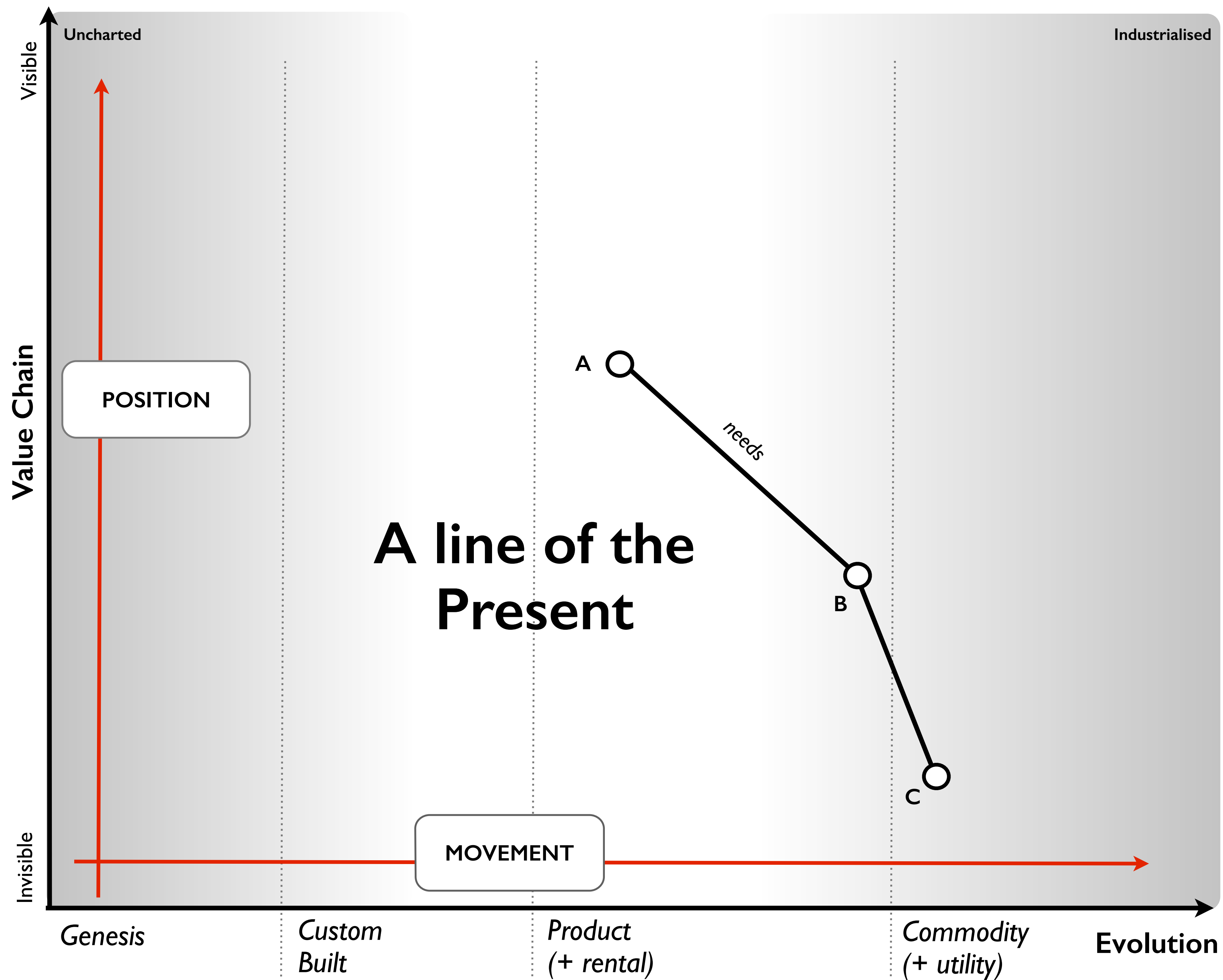




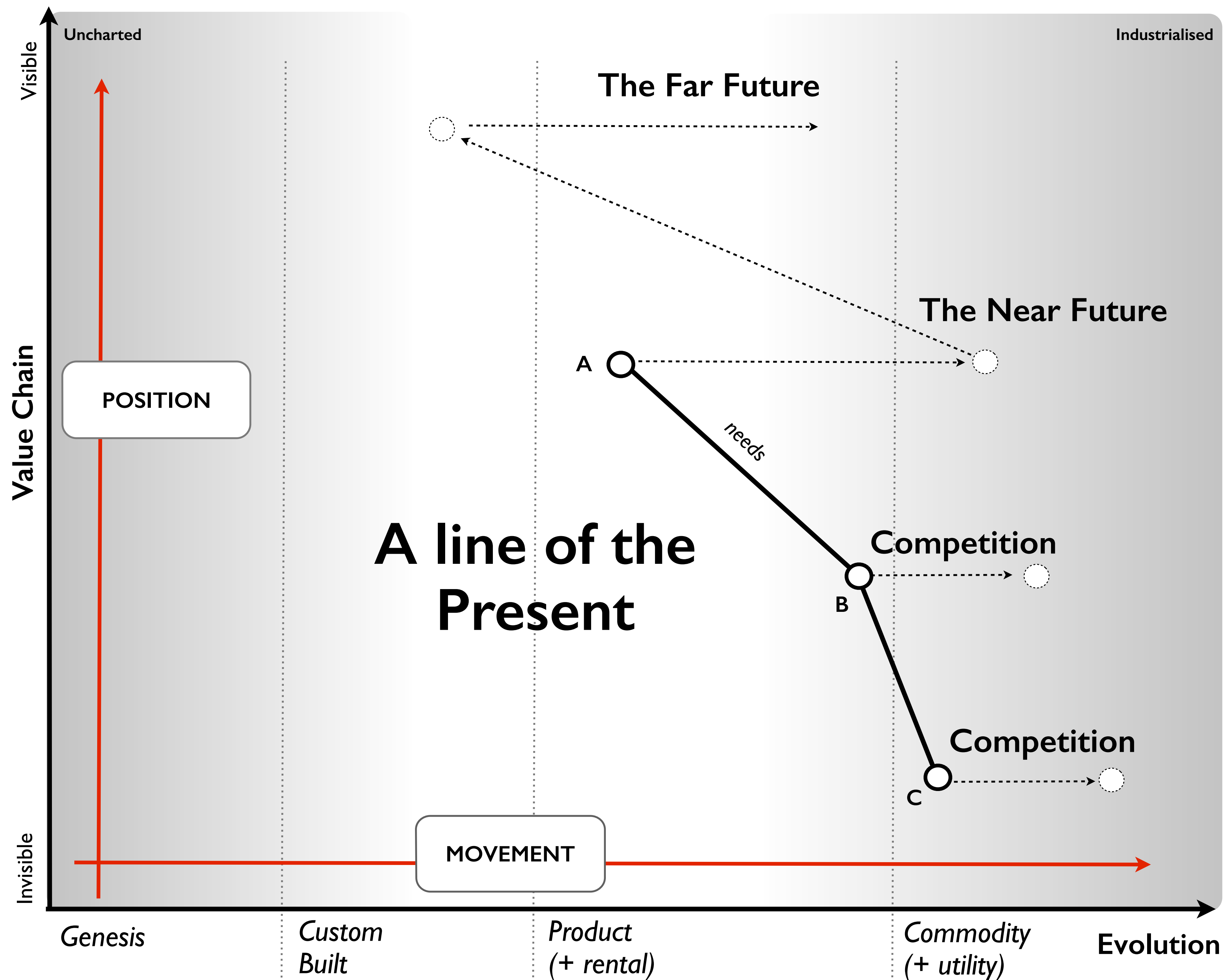
BATTLE OF  
**AVERASBORO, NC**  
MARCH 16, 1865



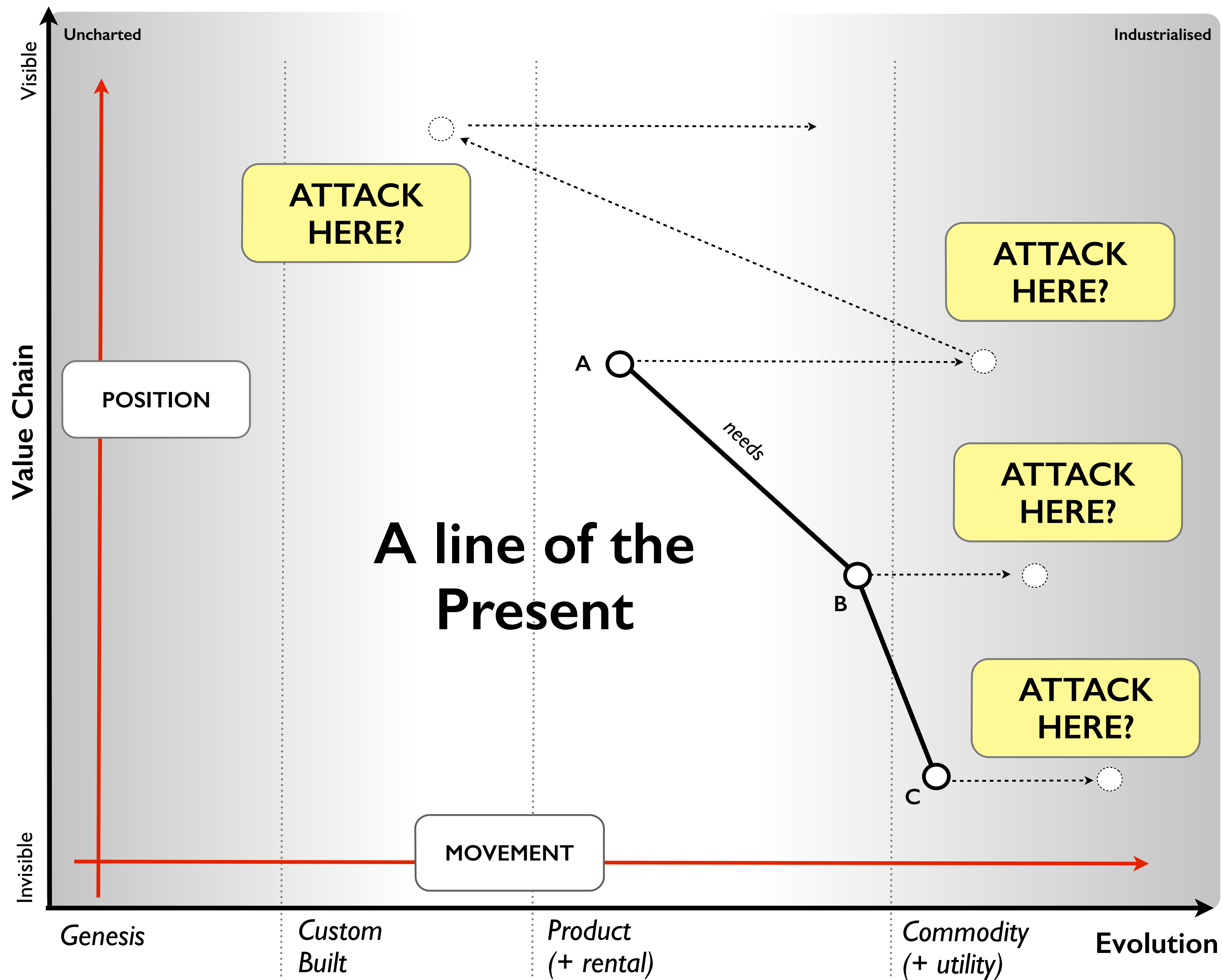




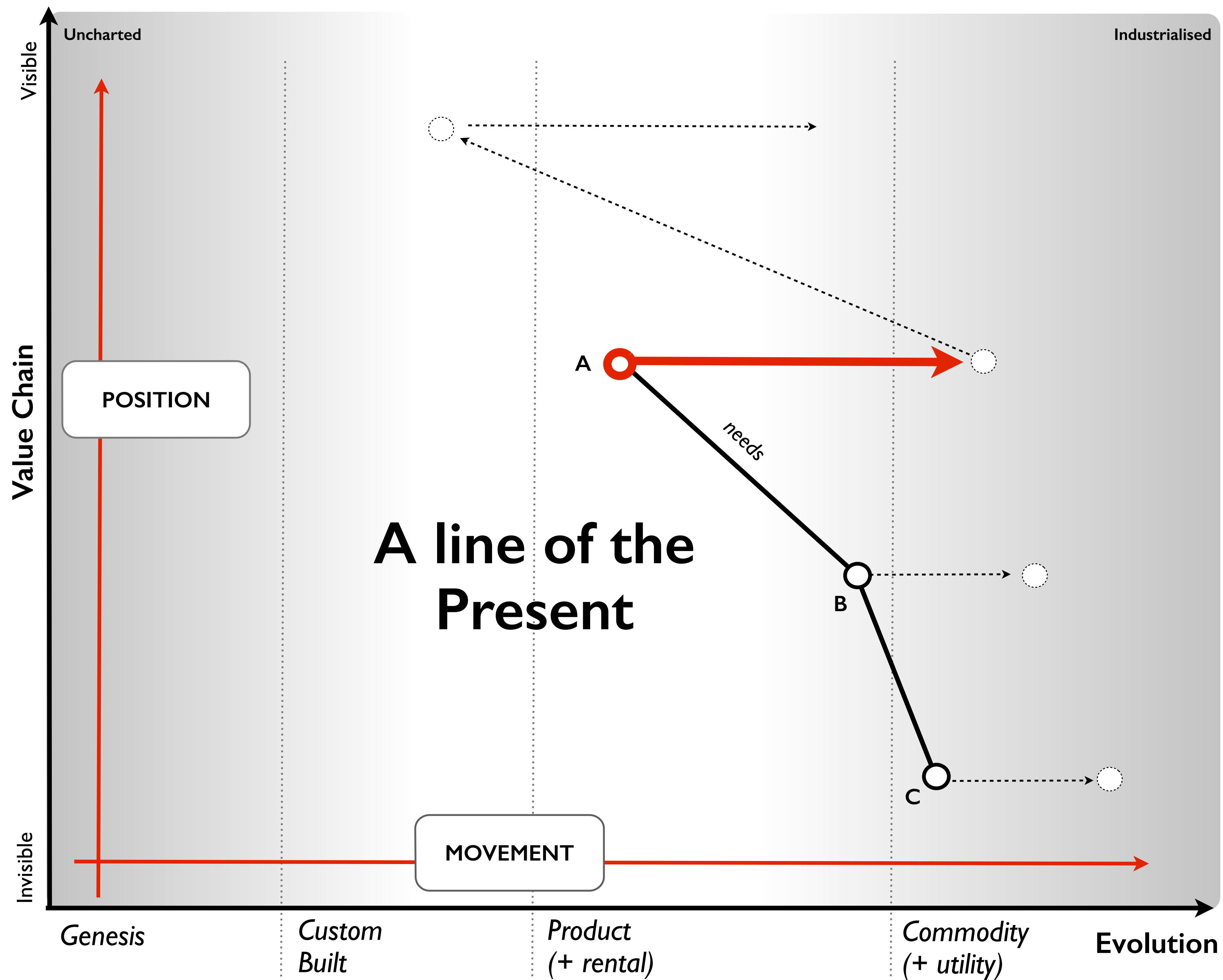












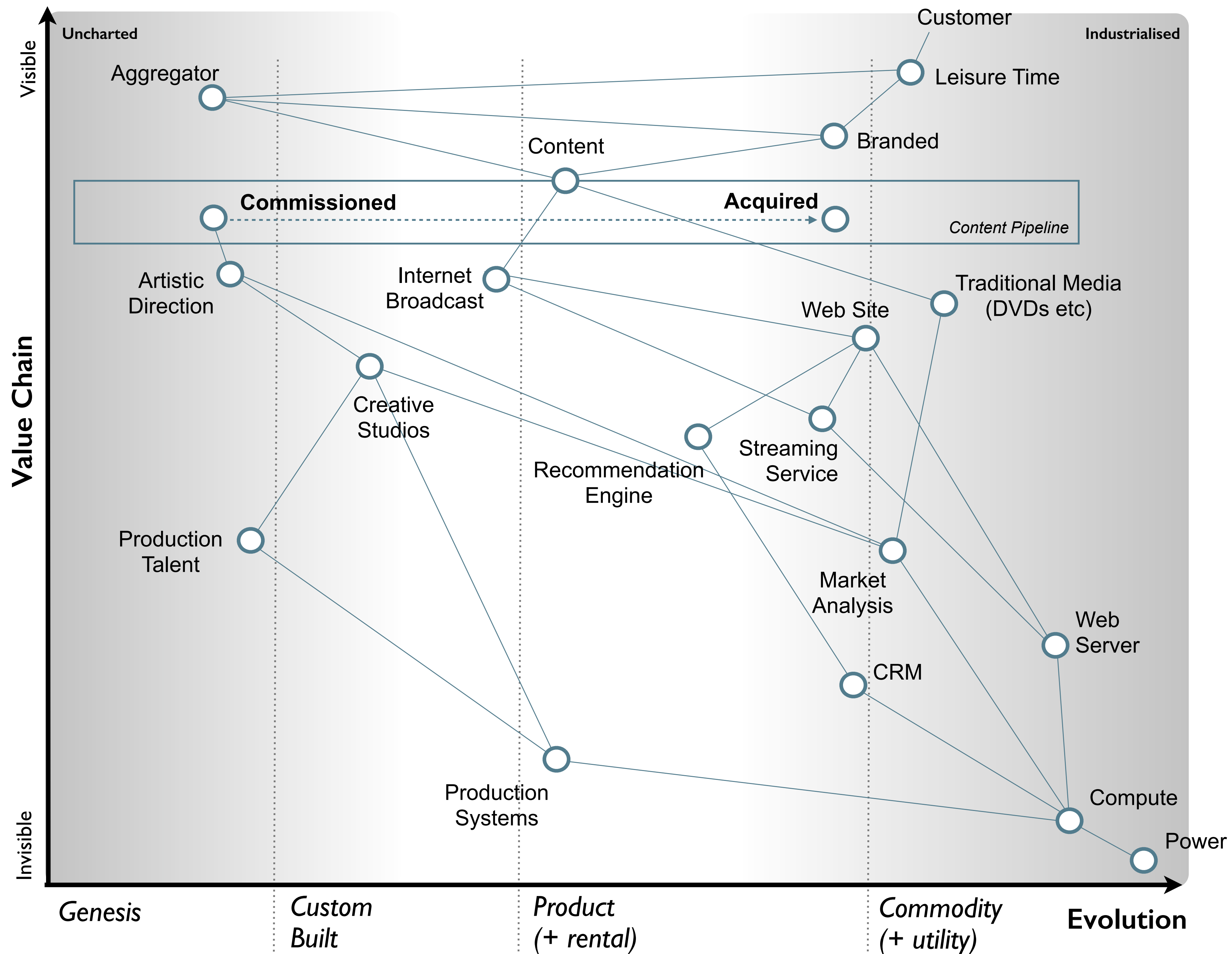


Focus	Gameplay <div><div></div> LG <div></div> N <div></div> LE <div></div> CE</div>						
Basic Operations	Focus on user needs	Situational awareness (communication, alignment)	Effective & efficient (methods, silos, bias, rationalisation)	Structure & culture (PST)	Optimising Flow (financial, risk, marketing, operation, profile)	Channel conflicts & disintermediation	
User Perception	Consumer education	Bundling	Creating artifical needs	Creating a confusion of choice	FUD (fear, uncertainty, doubt)	Artificial competition	Lobbying / counter
Accelerators	Market Enablement	Open approaches (data, source etc)	Exploiting network effects	Co-operation	Industrial policy		
De-accelerators	Exploitation of existing constraints	Patents & IPR	Creating constraints (supply chain)	Limitation of competition			
Dealing with toxicity	Disposal of liability	Sweat and dump	Pig in a poke				
Market	Differentiation	Pricing policy	Exploiting buyer / supplier power	Harvesting	Standards game	Signal distortion	
Defensive	Threat acquisition	Raising barriers to entry	Procrastination & timing	Defensive regulation			
Attacking	Directed investment	Experimentation	Creating a centre of gravity	Undermining barriers to entry	Fool's mate (lower orders)		
Ecosystem	Alliances	Co-creation	ILC (sensing engines)	Tower & moat	2 factor	Co-opting & intercession	Embrace & extend
Competitor	Ambush (tech drops)	Fragmentation play	Reinforcing competitor inertia	Sapping (multiple fronts)	Misdirection	Restriction of movement (circling)	Talent raid
Positional	Land grab	First mover (Industrialisation)	Fast follower (Innovation)	Weak signal / horizon			
Poison	Licensing play	Insertion	Designed to fail (community)				

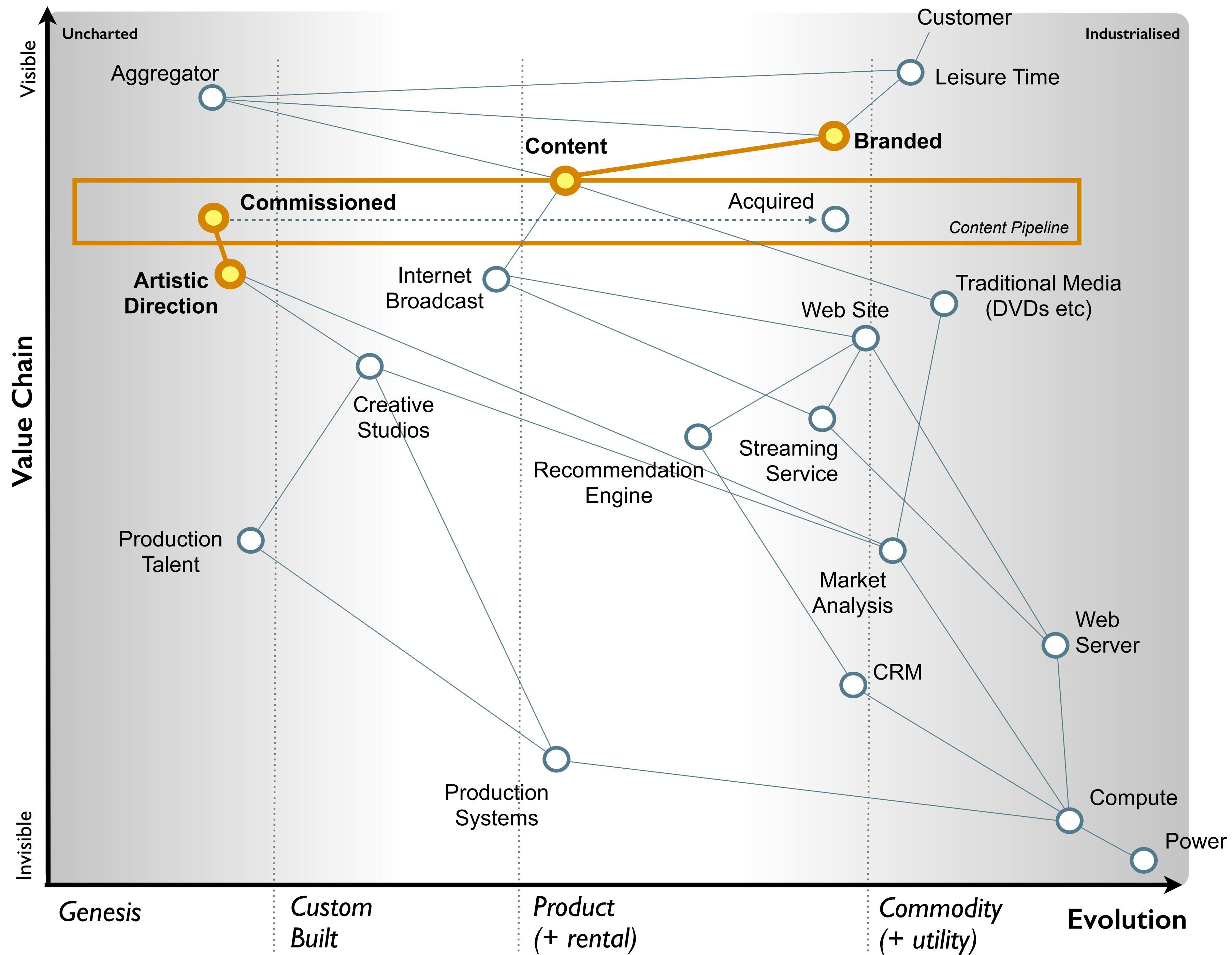


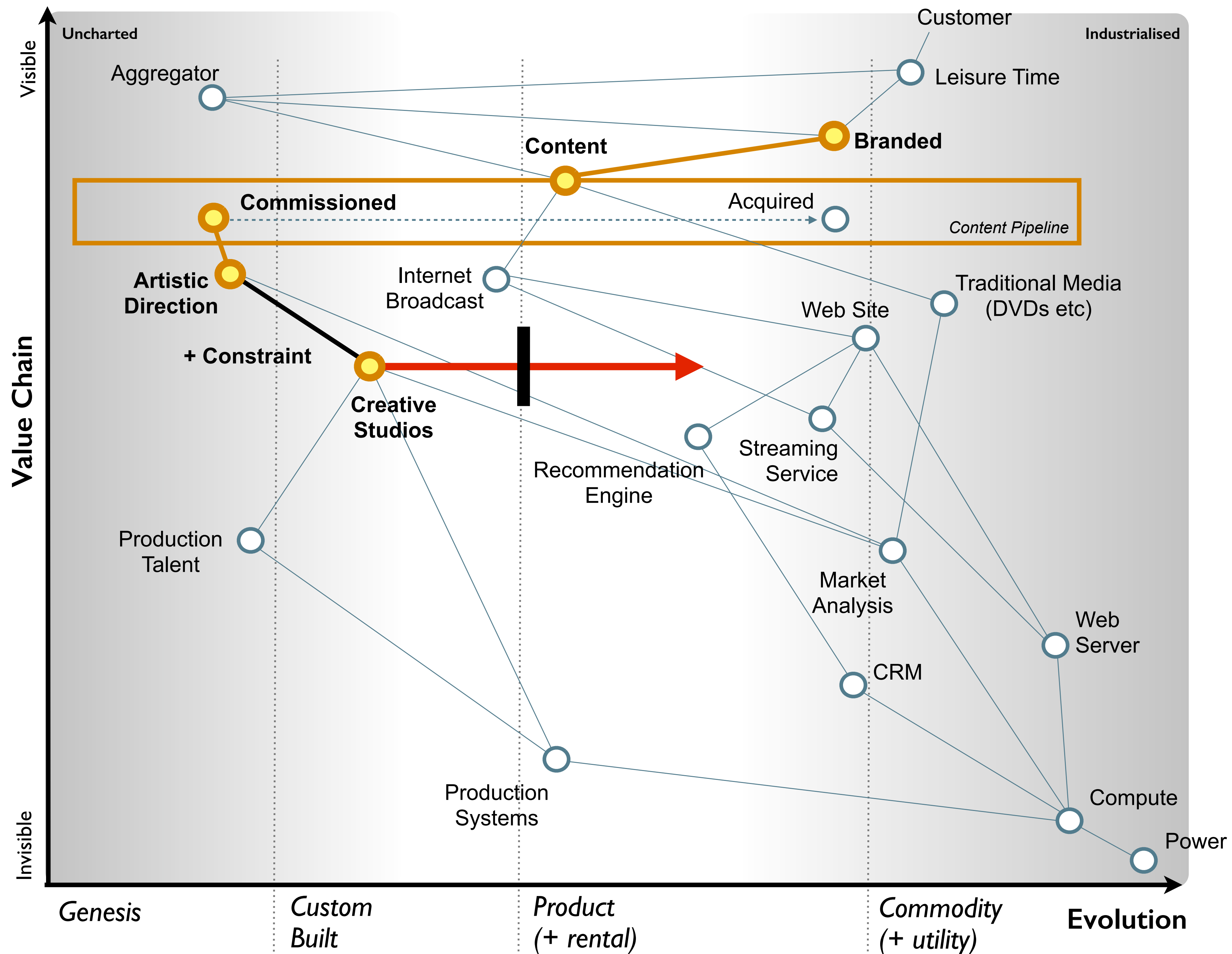
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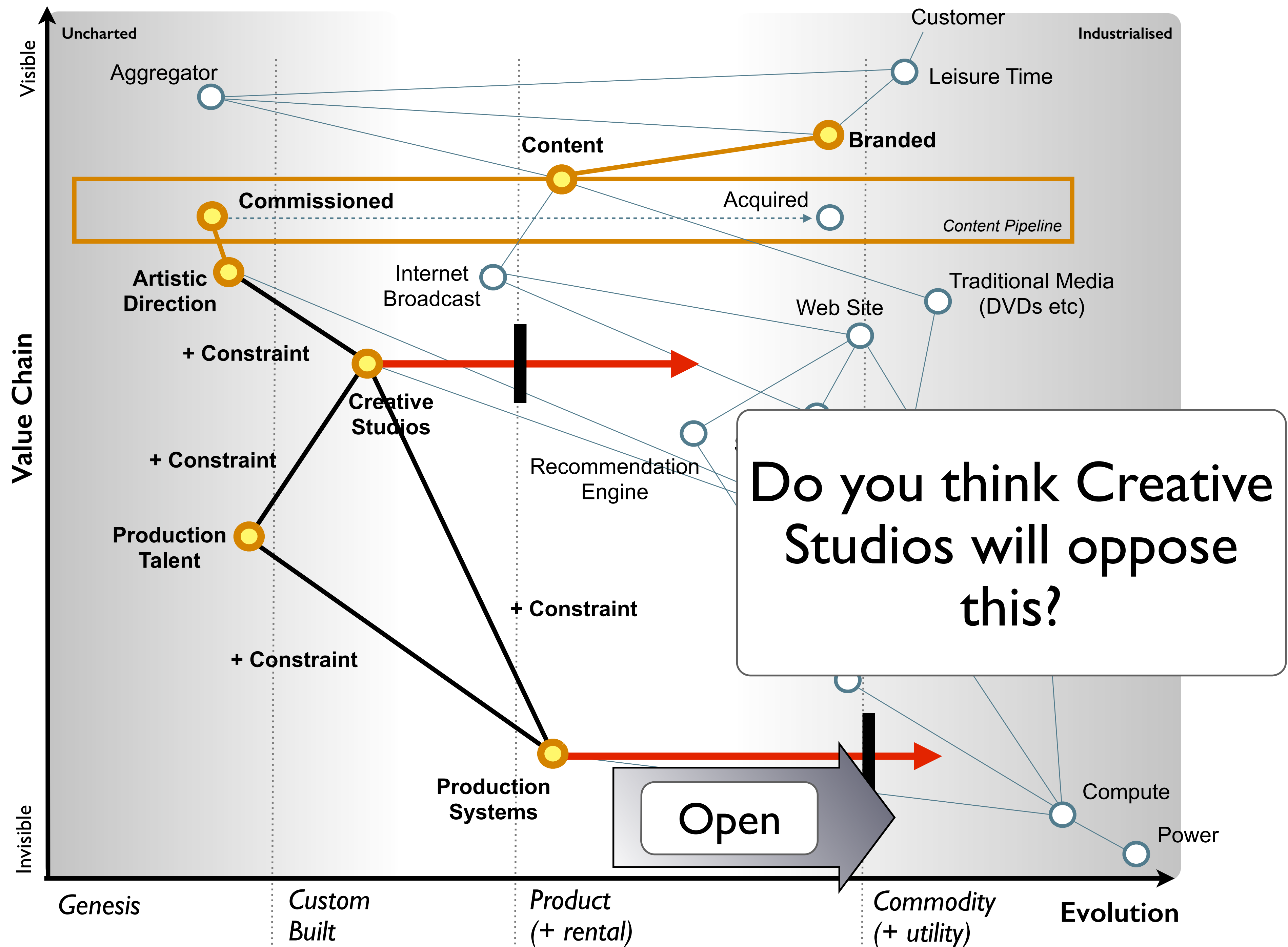


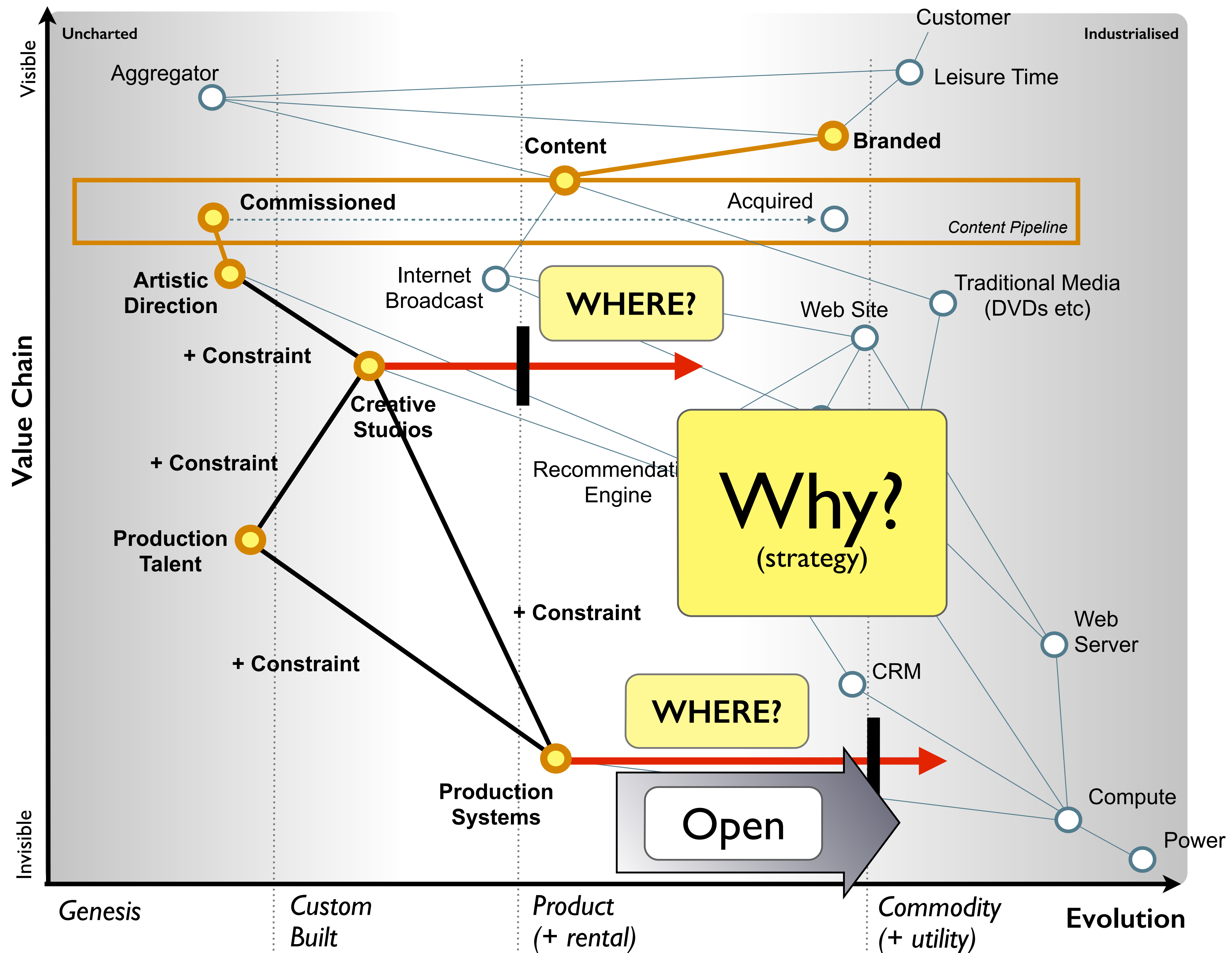














# In Business ...

**Where?**  
(position & movement)

**Why?**  
(strategy)

Situational Awareness

**How?**

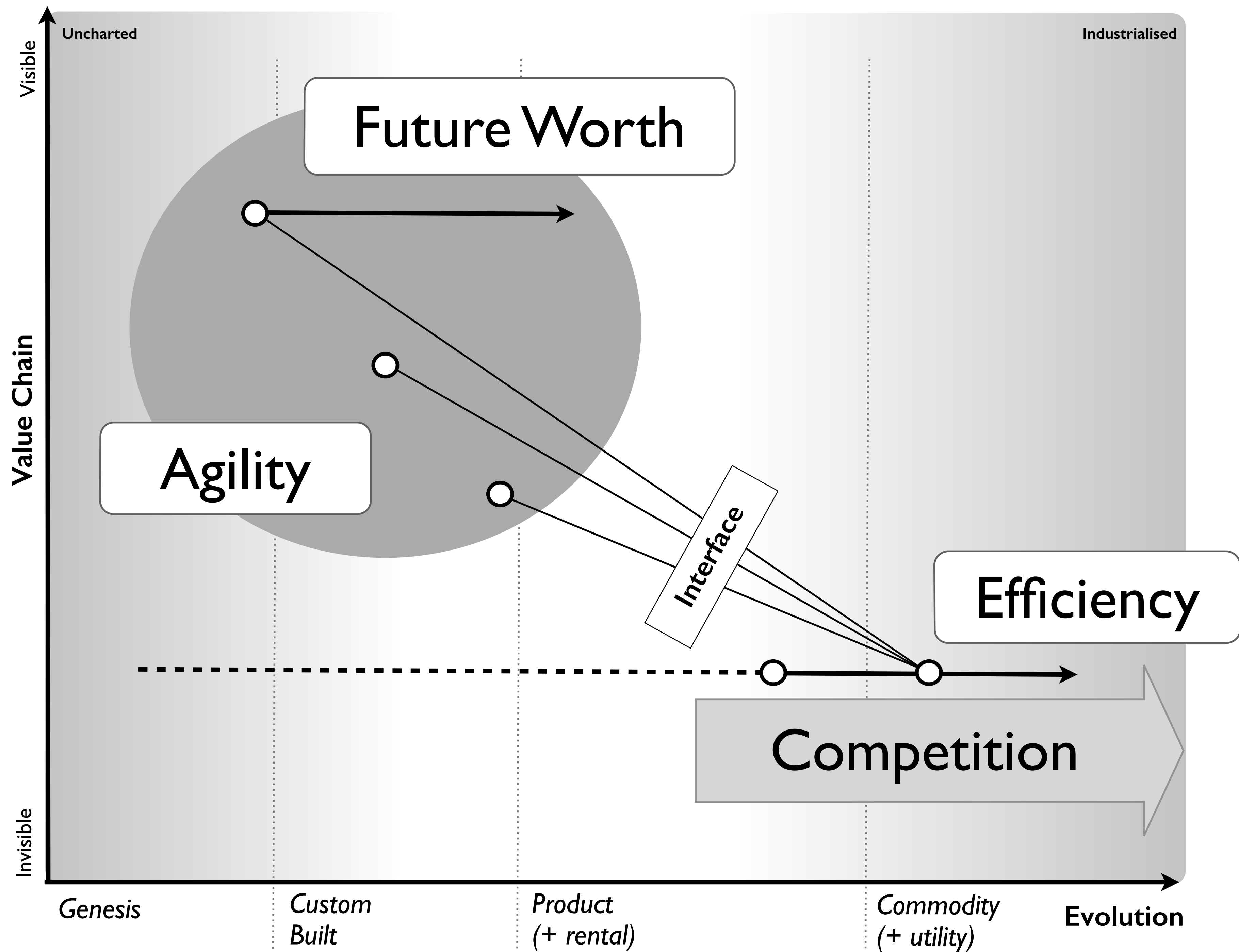
**What?**

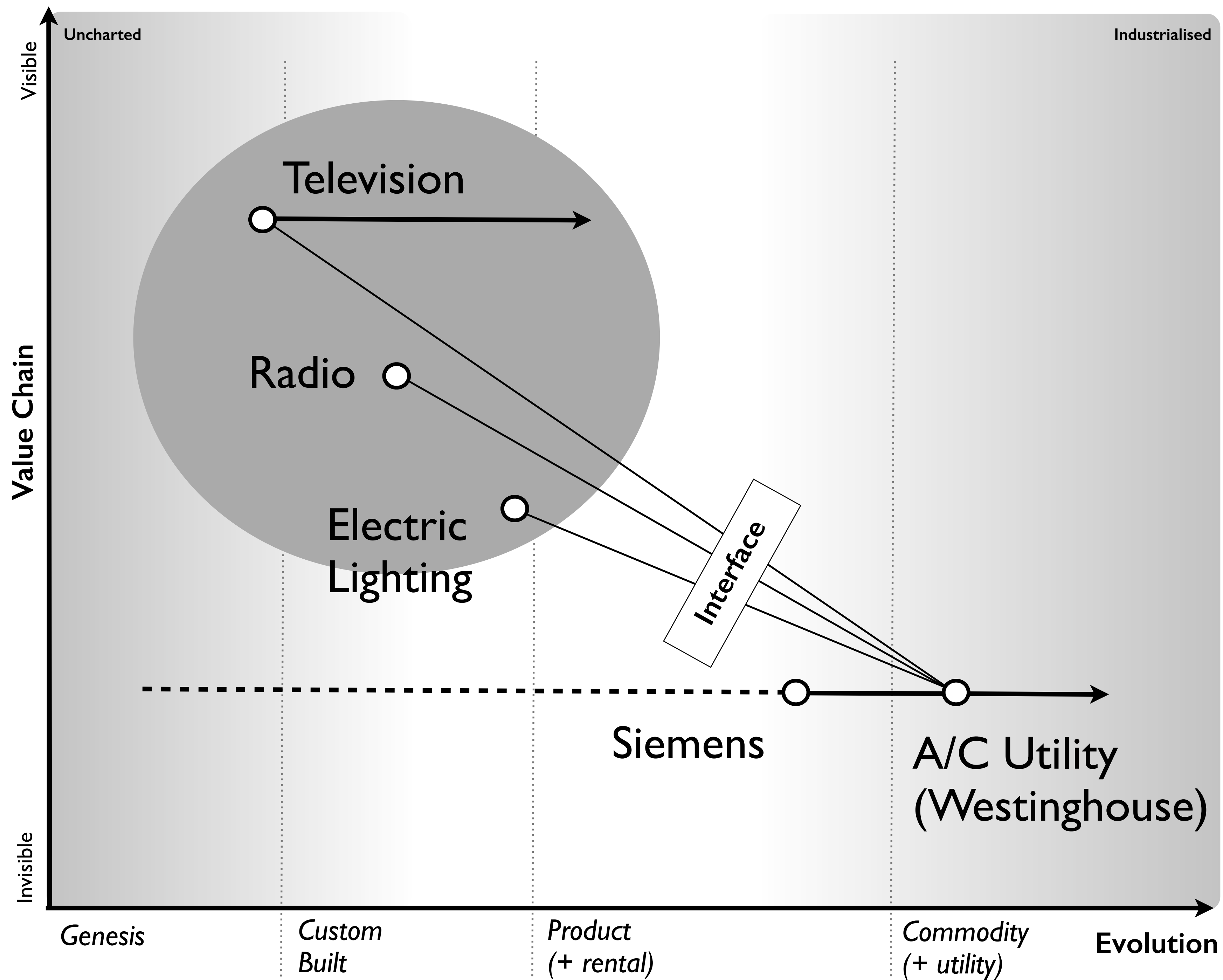
**When?**

Action

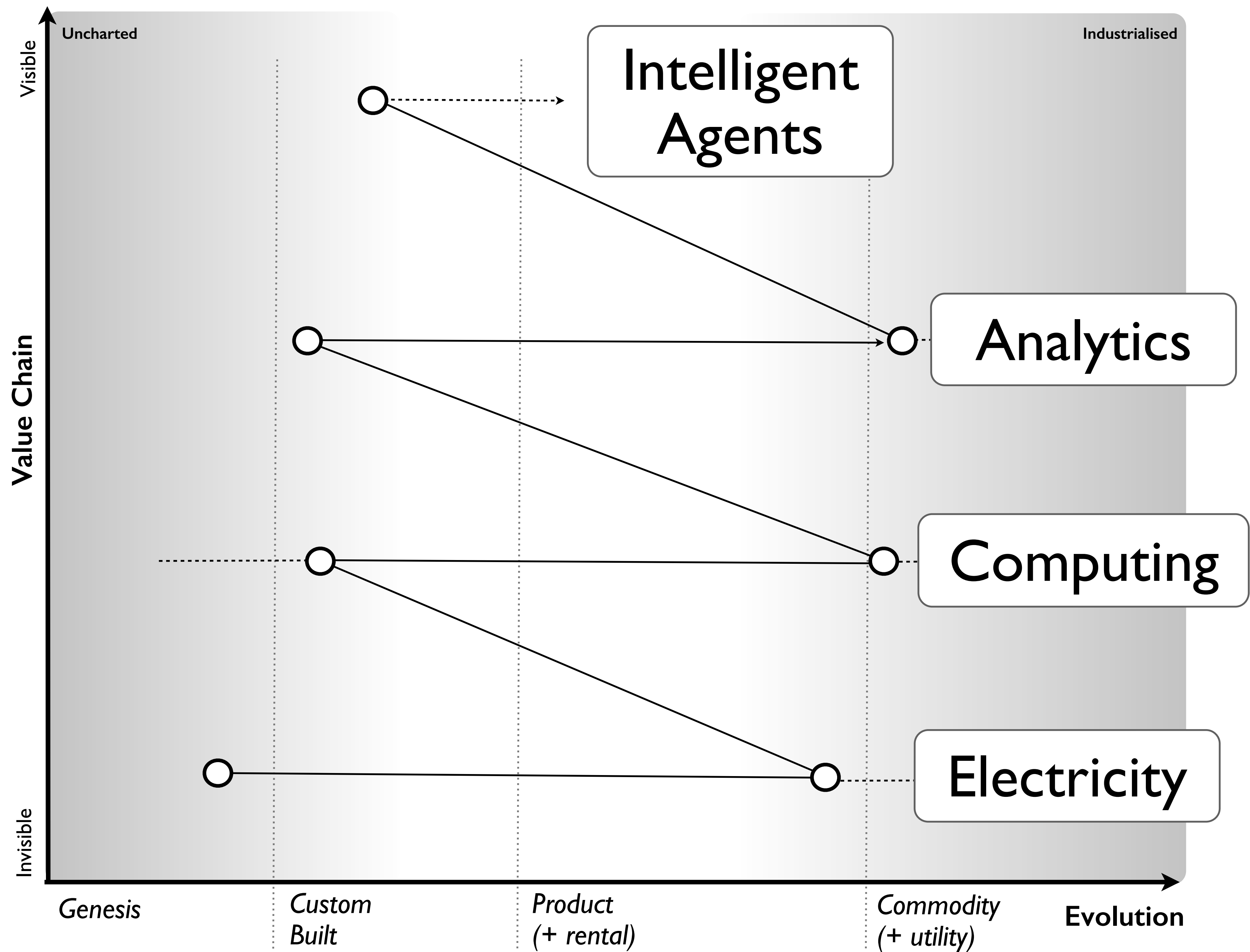
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Dealing with toxicity	Disposal of liability	Sweat and dump	Pig in a poke				
Market	Differentiation	Pricing policy	Exploiting buyer / supplier power	Harvesting	Standards game	Signal distortion	
Defensive	Threat acquisition	Raising barriers to entry	Procrastination & timing	Defensive regulation			
Attacking	Directed investment	Experimentation	Creating a centre of gravity	Undermining barriers to entry	Fool's mate (lower orders)		
Ecosystem	Alliances	Co-creation	ILC (sensing engines)	Tower & moat	2 factor	Co-opting & intercession	Embrace & extend
Competitor	Ambush (tech drops)	Fragmentation play	Reinforcing competitor inertia	Sapping (multiple fronts)	Misdirection	Restriction of movement (circling)	Talent raid
Positional	Land grab	First mover (Industrialisation)	Fast follower (Innovation)	Weak signal / horizon			
Poison	Licensing play	Insertion	Designed to fail (community)				

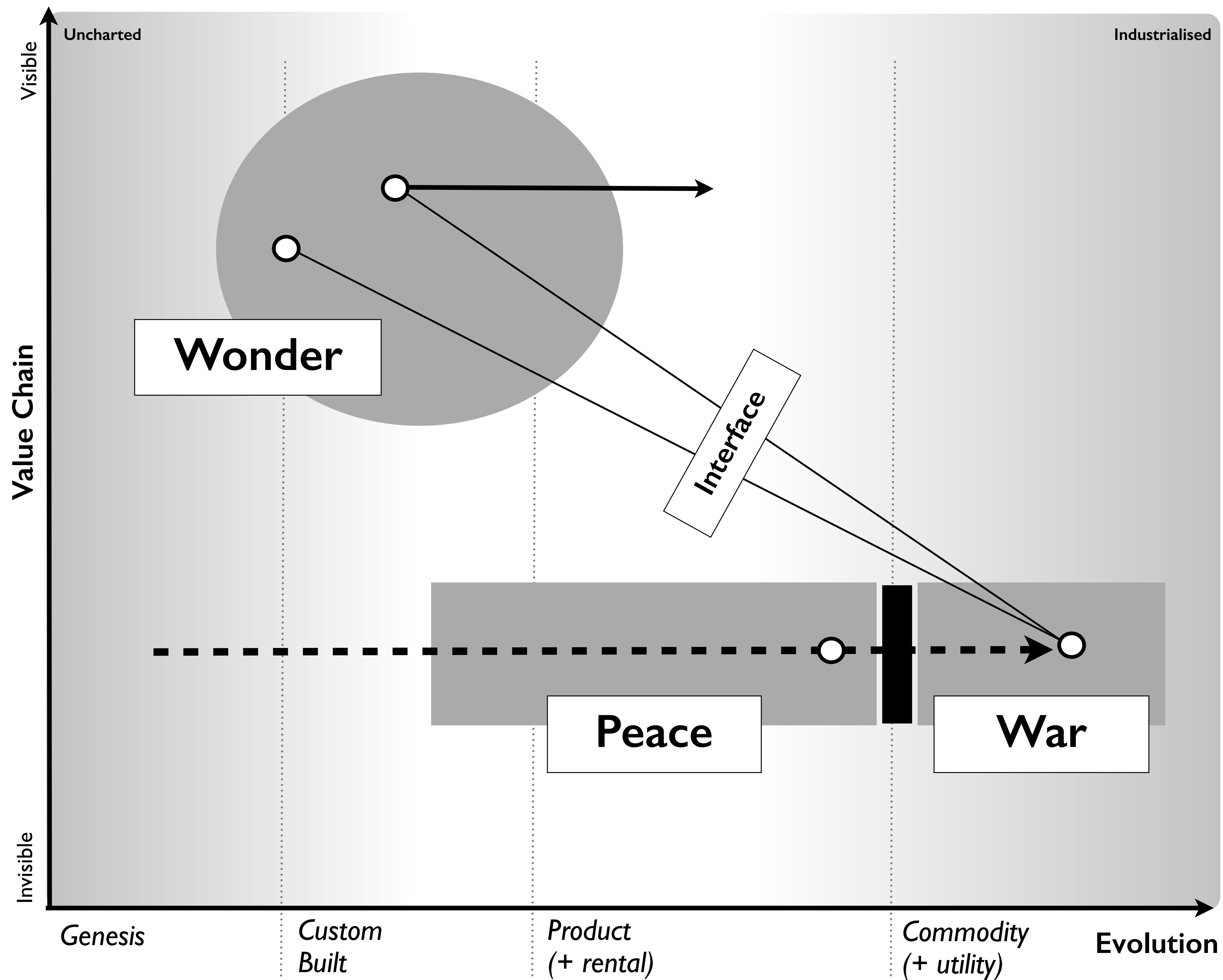






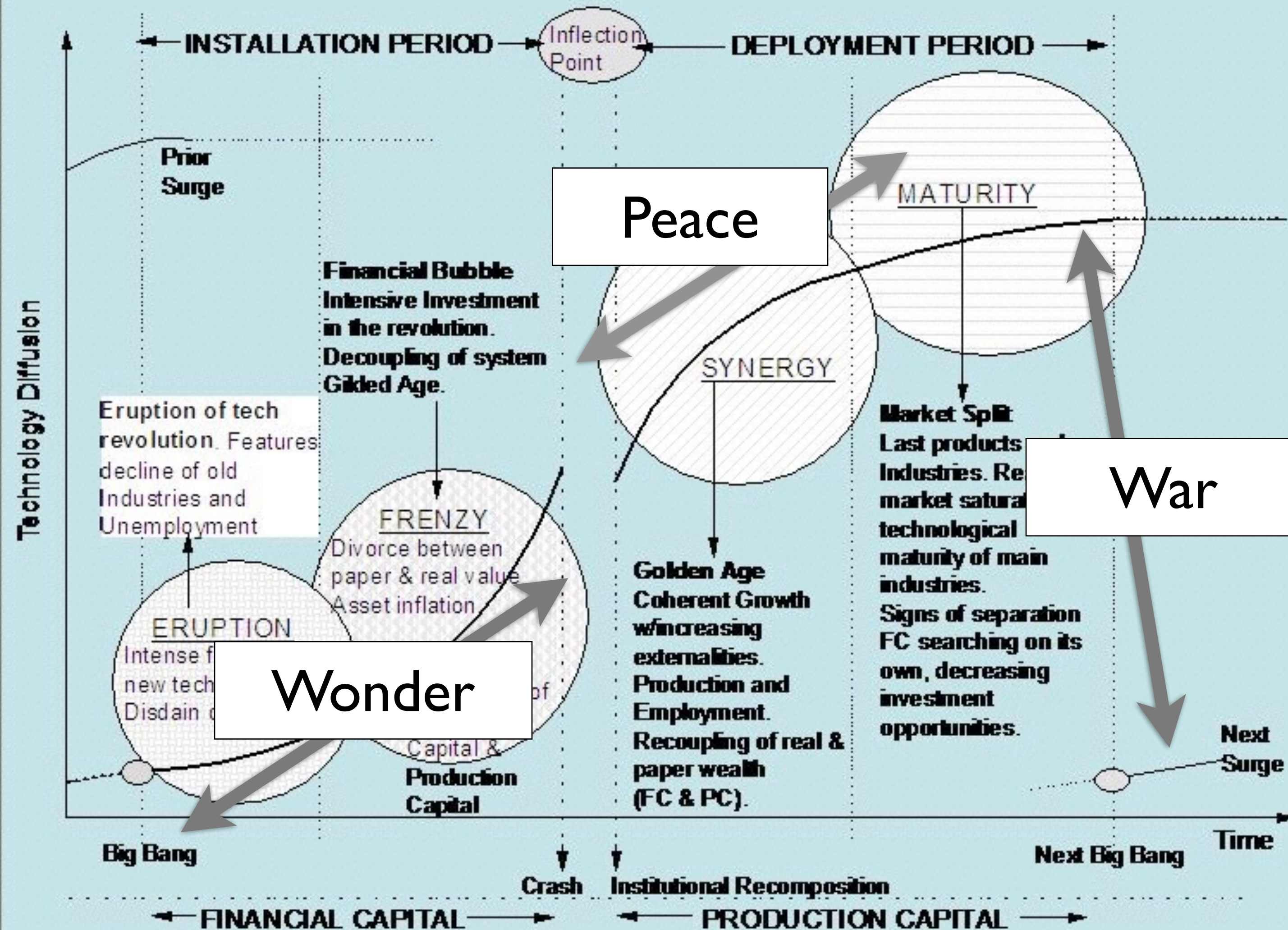






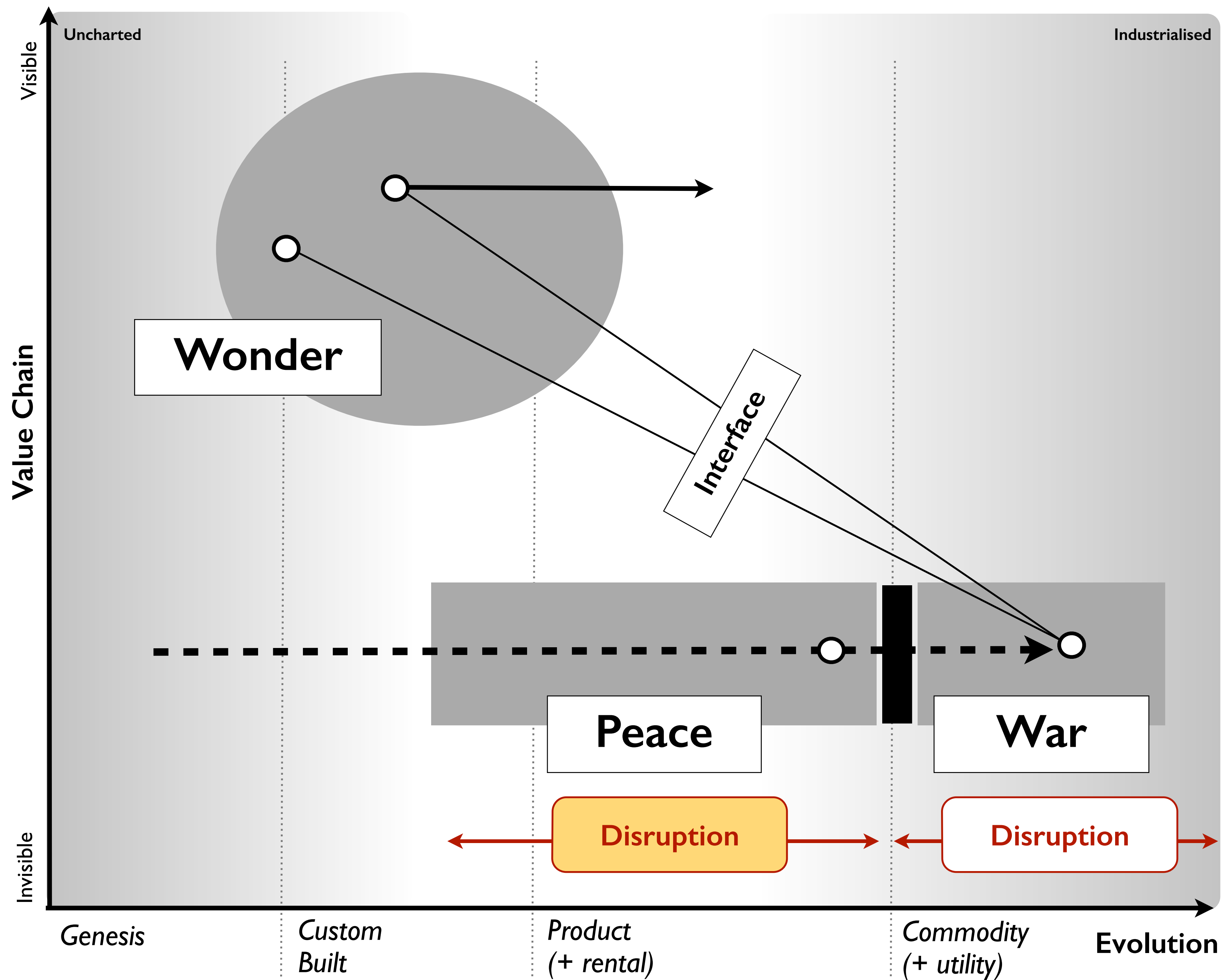


# Long Waves or K-Waves



\* Carlota Perez, Technological Revolutions and Financial Capital  
Page 74. Edward Elgar Publishing, 2002







Points of Change	Today	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						
IoT				War	War			
Sensor as a Service			War					
Agents					War			
Immersive				War				
Robotics			War					
3D printing				War				
Printed Electronics					War			
Hybrid Printing						War		
Genetic Engineering				War				
Bio Manufacturing						War		
Epigenetics						War		

Focus	Gameplay <div><div></div> LG <div></div> N <div></div> LE <div></div> CE</div>						
Basic Operations	Focus on user needs	Situational awareness (communication, alignment)	Effective & efficient (methods, silos, bias, rationalisation)	Structure & culture (PST)	Optimising Flow (financial, risk, marketing, operation, profile)	Channel conflicts & disintermediation	
User Perception	Consumer education	Bundling	Creating artifical needs	Creating a confusion of choice	FUD (fear, uncertainty, doubt)	Artificial competition	Lobbying / counter
Accelerators	Market Enablement	Open approaches (data, source etc)	Exploiting network effects	Co-operation	Industrial policy		
De-accelerators	Exploitation of existing constraints	Patents & IPR	Creating constraints (supply chain)	Limitation of competition			
Dealing with toxicity	Disposal of liability	Sweat and dump	Pig in a poke				
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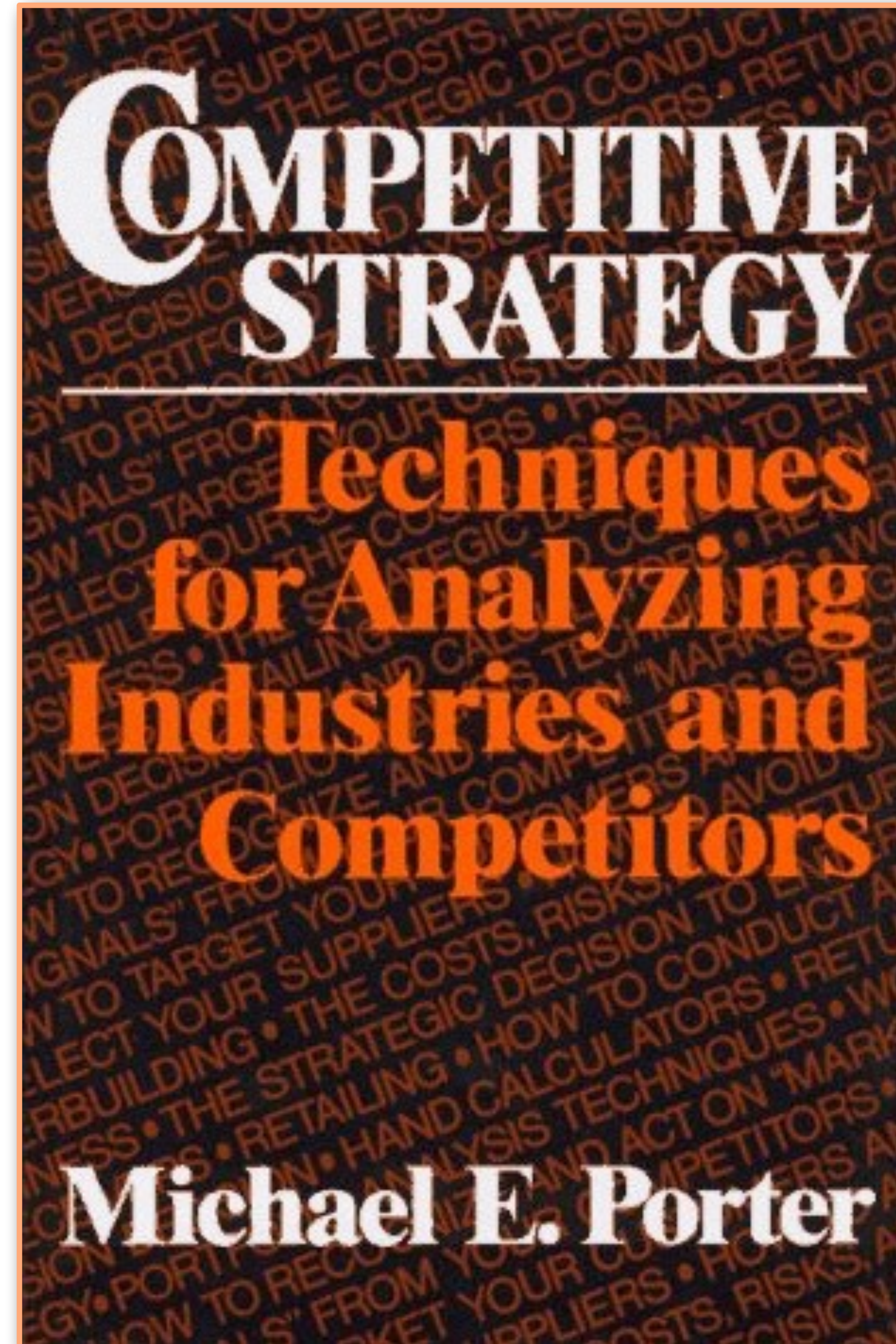


Choose one ...

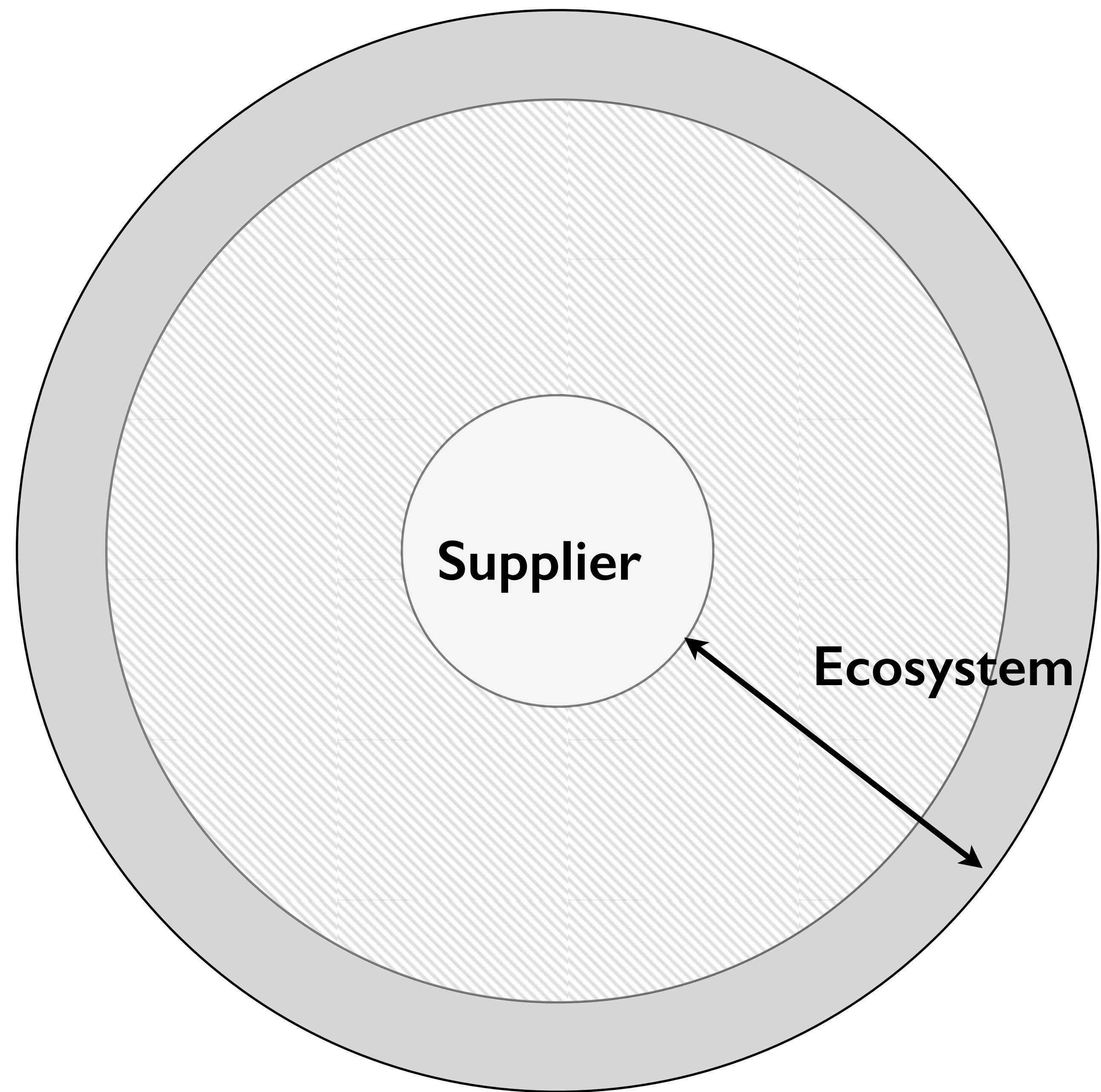
+ Innovation

+ Customer

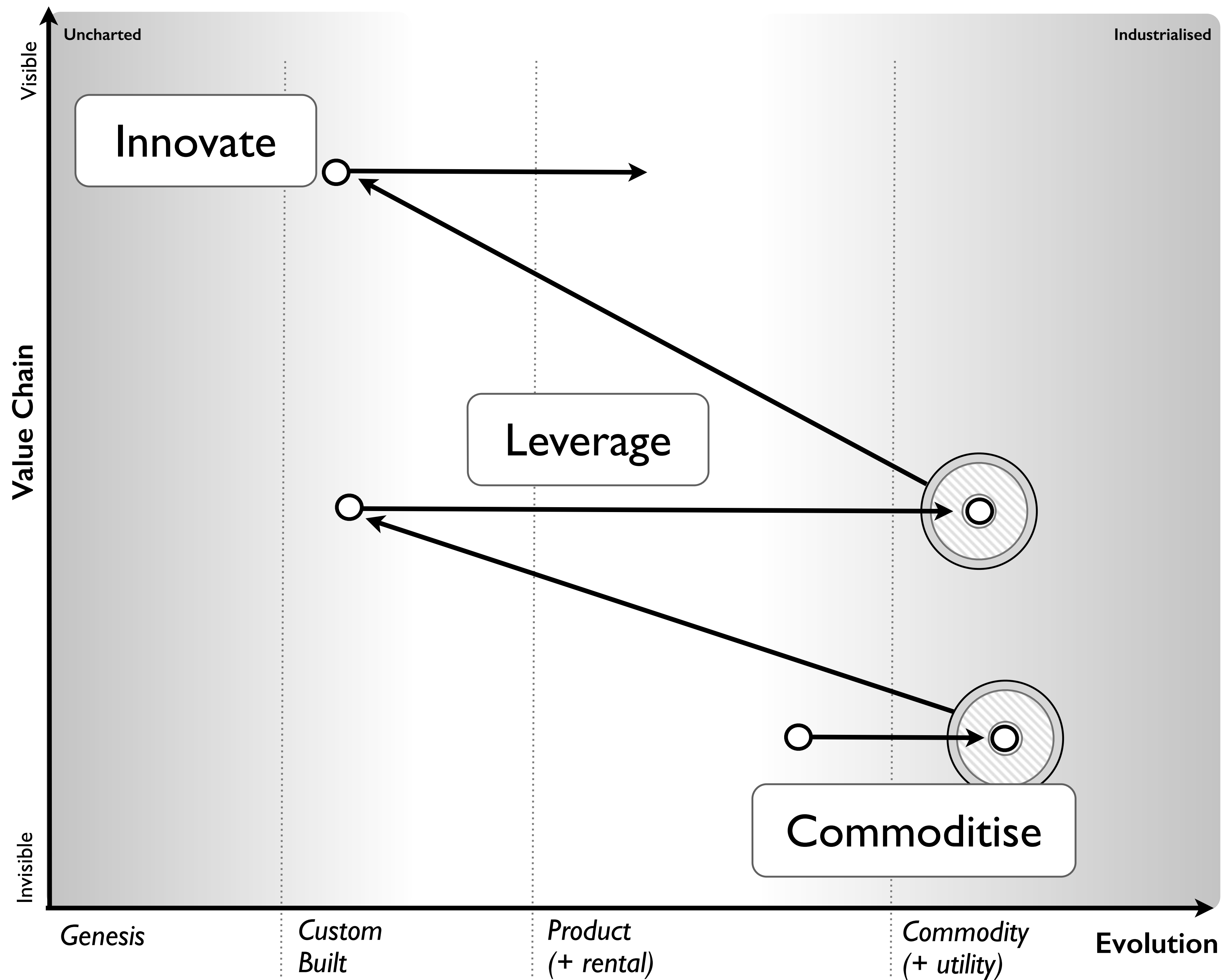
+ Efficiency













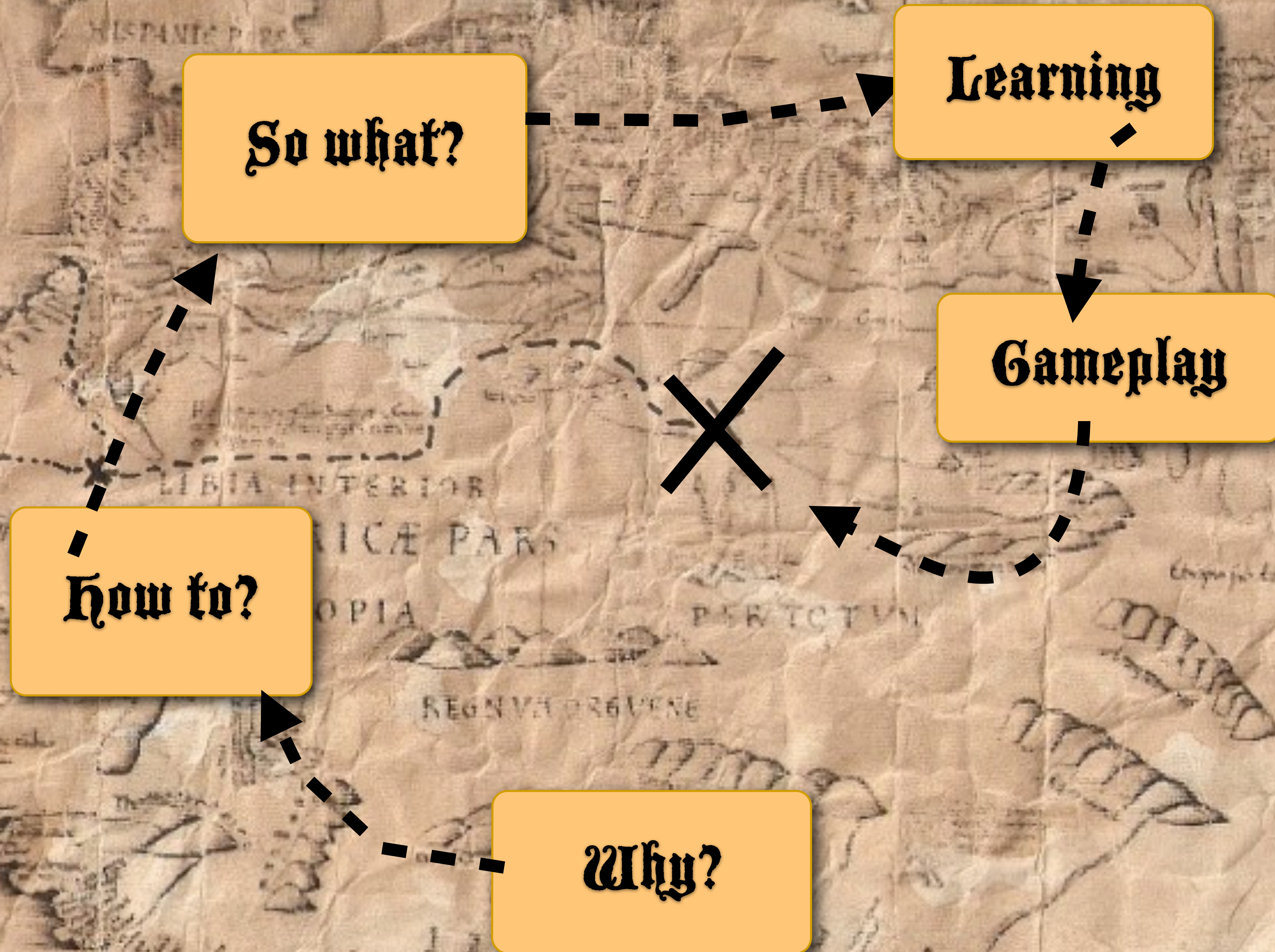
**So what?**

**Learning**

**Gameplay**

**How to?**

**Why?**





THANK YOU

@swardley

<https://leadingedgeforum.com/>