

### Agenda

- Fundamental change in business logic
- Basics of platform economy
- Value of data
- Platform economy business models
- Case: Startup Commons
- Designing platform economy business models
- Organizational change: transformation vs. transition
- Digiole Services
- Q&A





### @valto



### Valto Loikkanen

International Serial Entrepreneur Startup Ecosystem Developer Digital Finance Innovator

### Digitally Native Global Entrepreneur

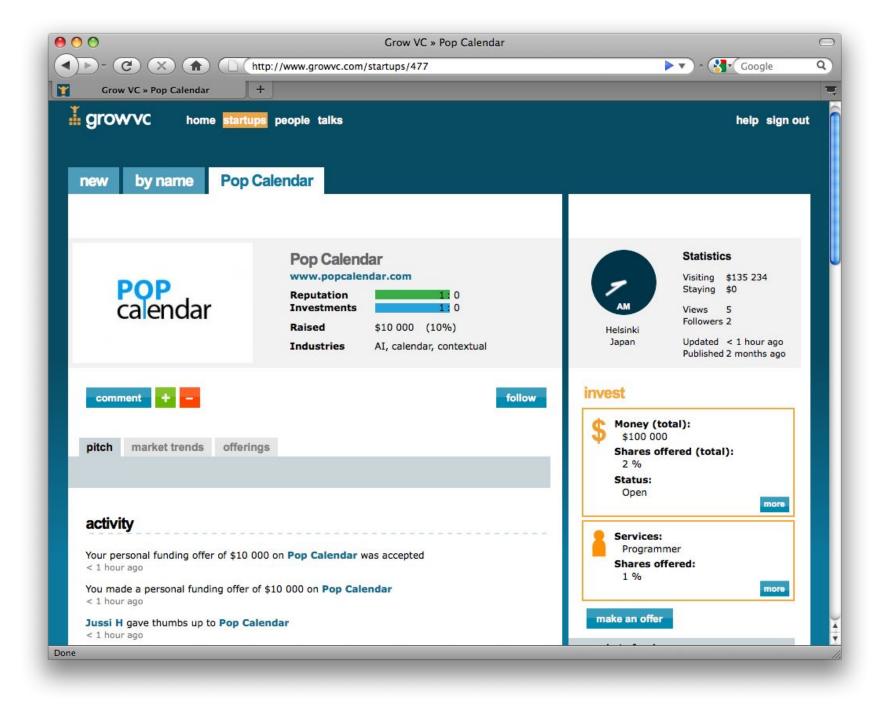
- Close to 25 years as global serial & portfolio entrepreneur (US, EU, Asia), with deep personal experience from successes & failures
- 19 years experience in developing digital applications to support various business processes
- 10 years for Startup Ecosystem development combined with online support tools, platforms & metrics

### Business Advisor & Ecosystem Developer

- 10+ years of startup mentoring & advisory with hundreds of startups & scaleups around the world, at various development stages and industries
- 12 years developing business support services & funding instruments for digital businesses
- 8 years of "living lab" development for Digitalizing Startup Ecosystems around the world
- 6 years in European Commission Advisory role.

### 2009

Creating the first equity crowdfunding platform in the world

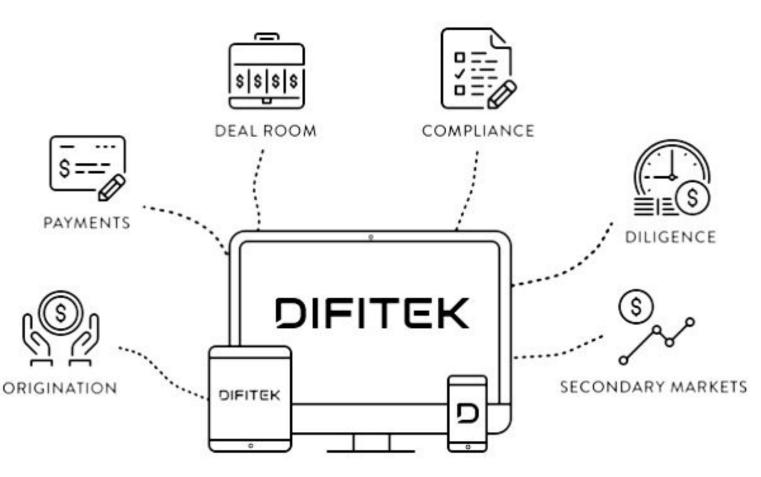


2012-

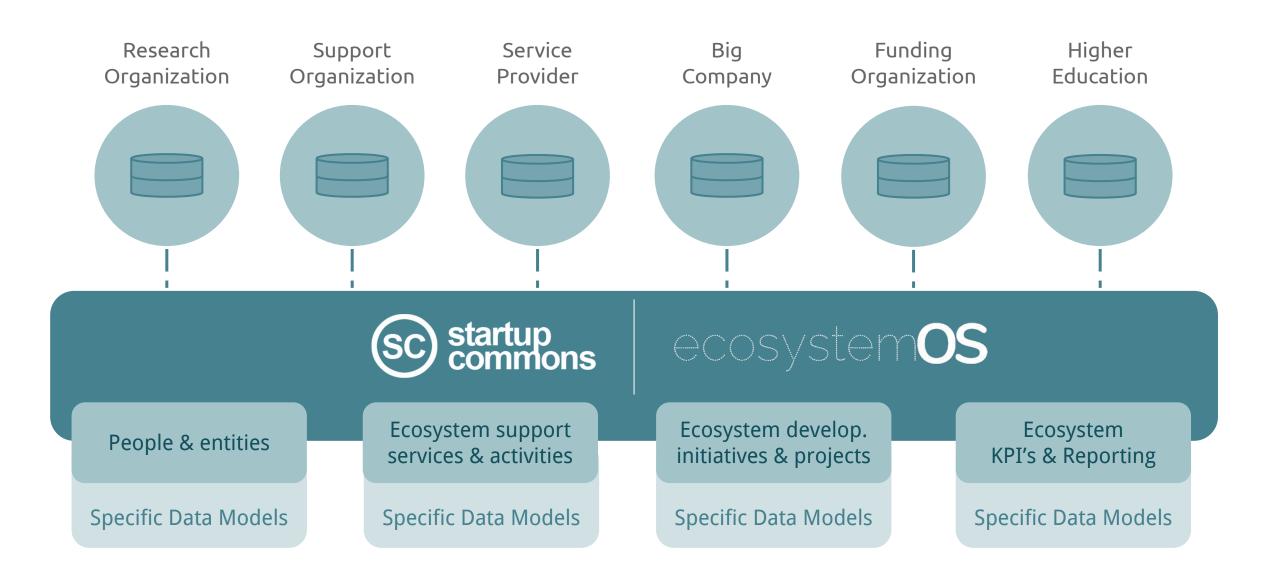
Digital Platforms And Business Models For Global Finance Markets (100+ platforms)







### 2014- Developing & Digitizing Startup Ecosystems To Enable Data Flow Within And Between Ecosystems Globally



### 2017- www.prifina.com

# Your personal data cloud and the applications to activate your data



Personal Cloud

Your personal cloud is only yours. It's where your data lives and where local apps can run.



Data Cloud

Upload data, connect data sources, and manage all data in your personal cloud.



Display

Display to install Data Widgets, tools that provide insights into your own data.

# ROADMAP TO DIGITAL PLATFORM ECONOMY

JUKKA VIITANEN | REIJO PAAJANEN

VALTO LOIKKANEN | AKI KOIVISTOINEN

Tekes

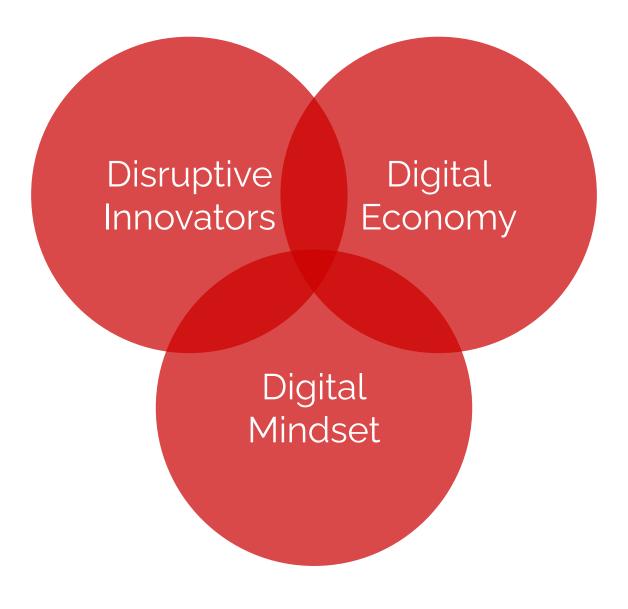




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# Market Forces of Change With Accelerating Pace

Markets & Competition



4th Industrial Revolution

**Business Models** 



### Forces Of Change - Accelerating Pace

Each individual force is a significant challenge on its own right, requiring significant organizational transformation

When combined, these forces put organizations into unprecedented pressure for change at accelerating pace

Competing disruptors are already masters of one, two or all of these forces, deep in their DNA, giving them unfair advantages

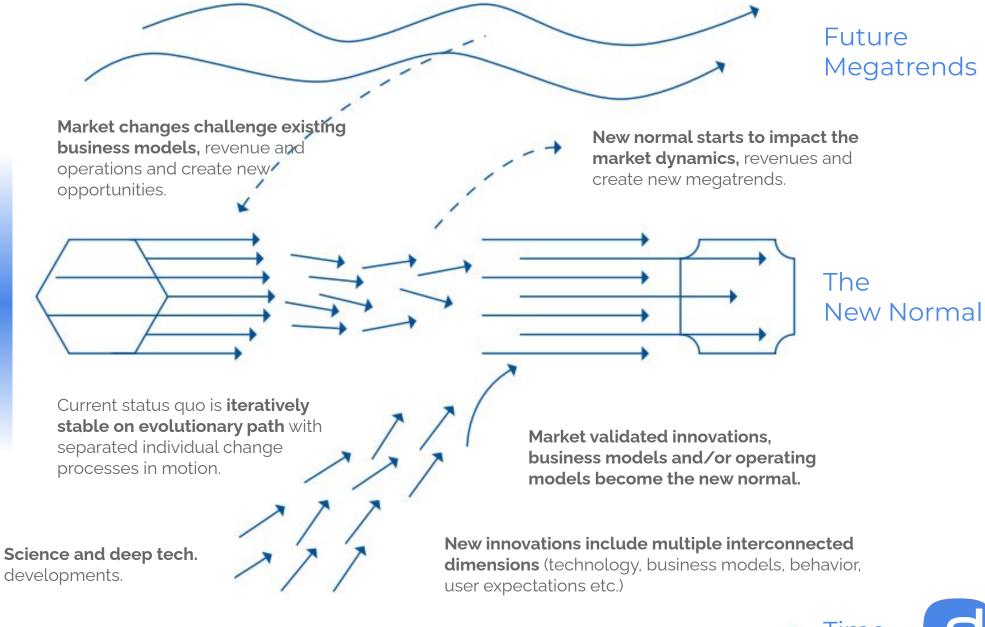
It's **simply unrealistic** to expect organizations to be **capable to transform** (strategies, people, talent, culture etc.) **and compete in all dimensions** needed **at the same time**.



#### Global Megatrends

Markets Status Quo

**Innovations** & Validations







Markets & Digital Startup Competition Methods DNA Platform Economy

4th Industrial Revolution

**Business Models** 



# Platform Economy

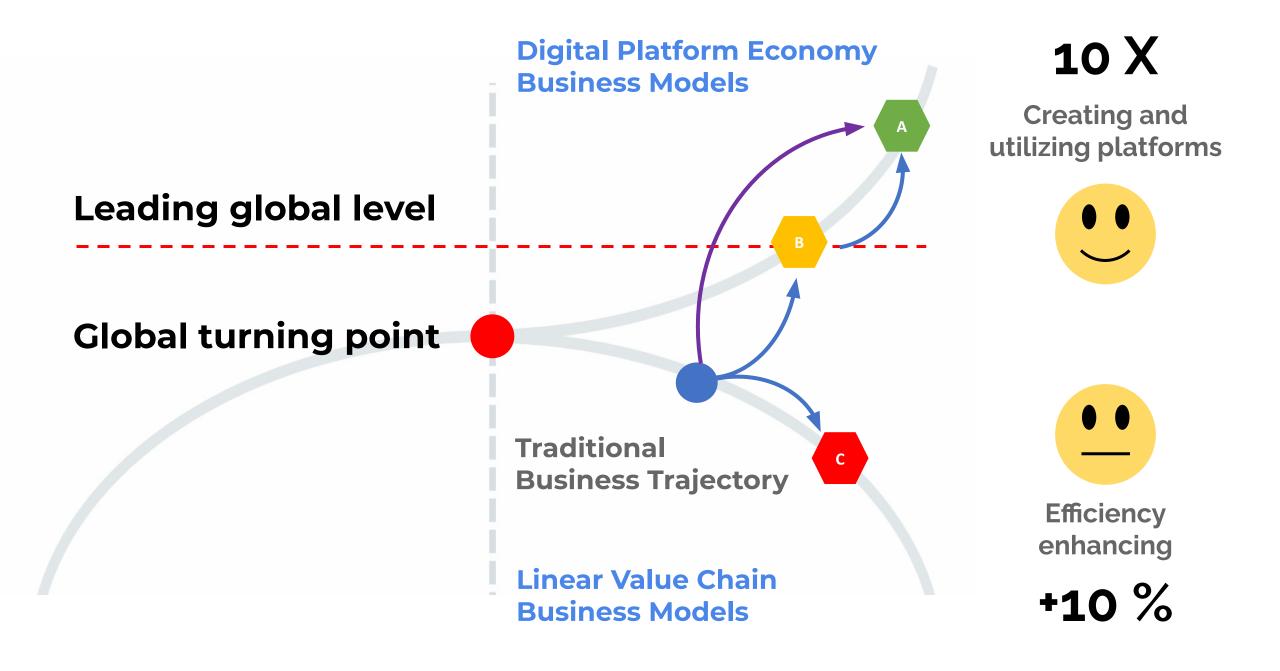






### New Business Logic

Enabled By Internet And Constant Flow Of New Digital Technologies.

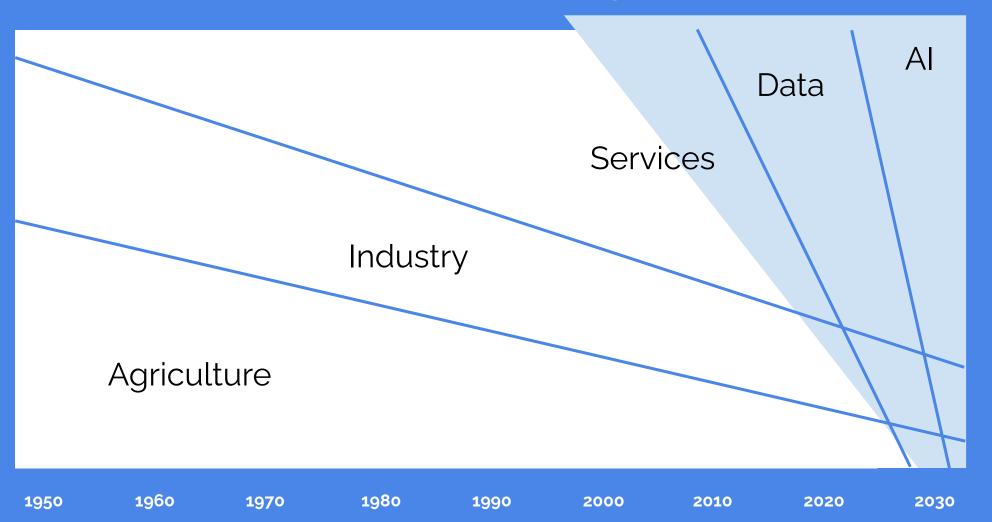


### Impact To Society And Economy



### Economy Transformation 1950 - 2030

### Digitalization



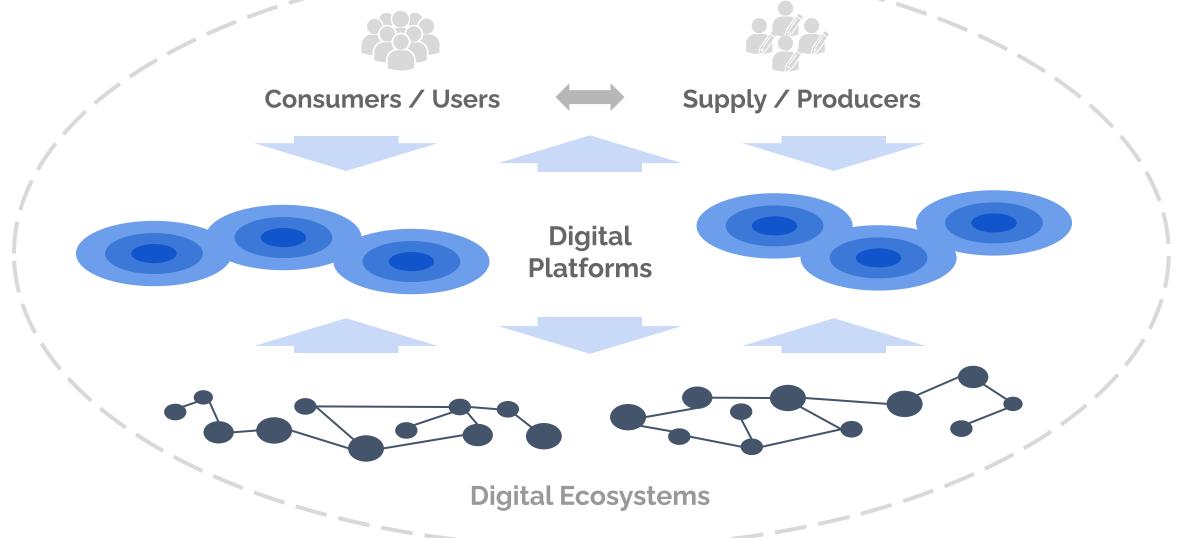


# Growing portion of economy is coming from value creation based on data

- Portion of services from the relative volume of overall value produced will continue to grow
- Data business will also take growing portion of the service markets
- In next 3-5 years, AI solutions will change the productivity of labor and base logic in business with unforeseen ways
- Digital balance of trade and balance of current accounts, work as measures for platform economy (but unclear how those are or should be measured today)

# Basics of Platform Economy

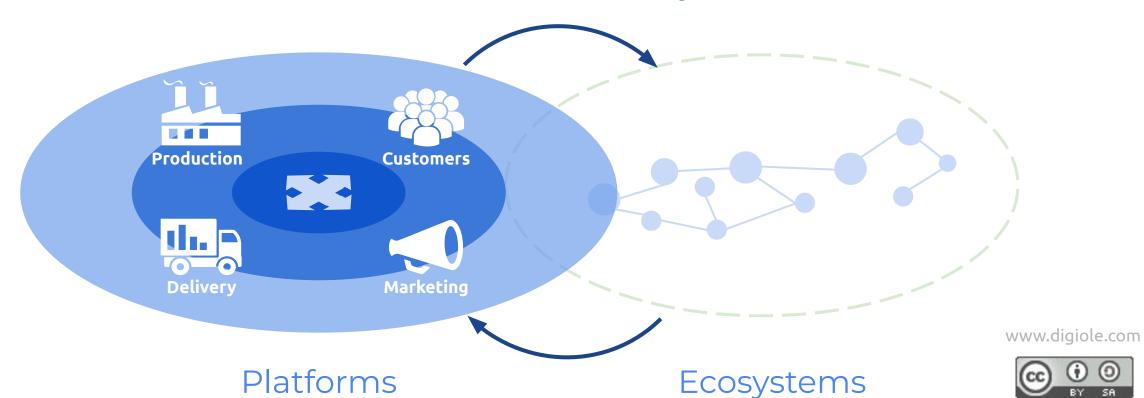
### Digital Platform Economy



### From Value Chains



### To Platform Economy



# Platform Economy challenges the business logic in all industries

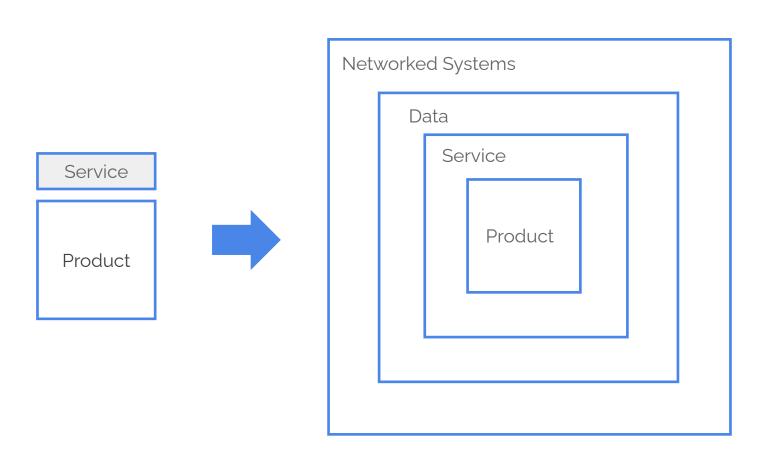


# In future, manufacturer of machines & equipments, must enhance their products

- → Service layer: entire service business logic
- → Data layer: data as new raw material in value creation
- → Systemic layer: more complete solutions to customers needs by combining systems and data
  - Machines + equipments + services + communication capabilities + real-time monitoring & data collection + analytics + business model changes etc. (digital/application driven companies)
  - Ongoing 24/7 value creation

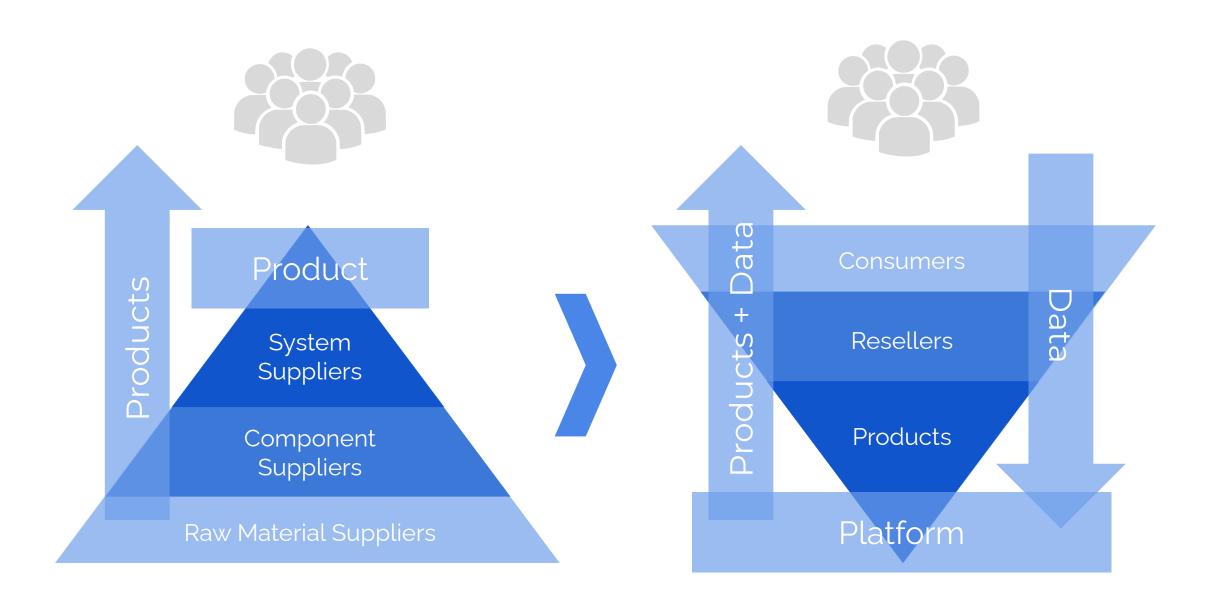


### From Digital -> To Digital Platform Economy



= 1:8 => 10X

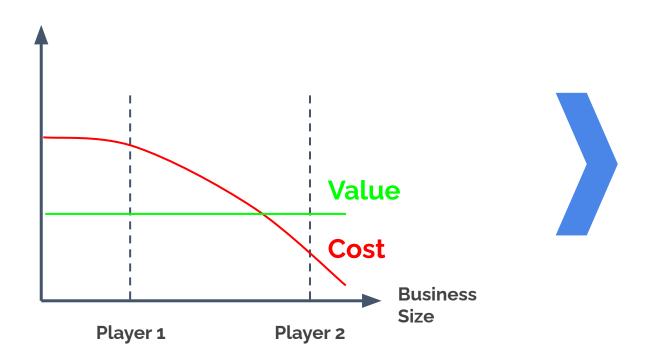
### From Product -> To Platform



## 10x Business



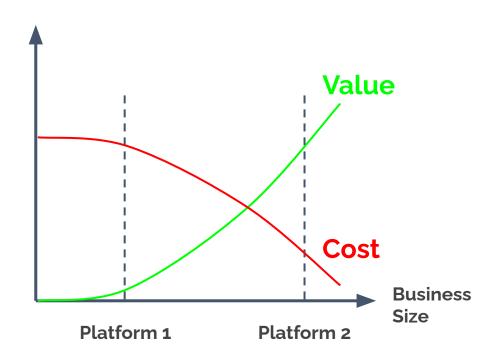
### Linear Business



### Competing in one dimension.

Cost, by applying economies of scale.

### Platform Business



### Competing in both dimensions.

Due network effect, higher marginal value at lower marginal cost.

# From resource control -> to resource orchestration

Based on own resources, innovation occurs at given rate.



Harnessing third party resources, innovation can occur at *higher* combined rate

Even if platform starts from behind or has higher variability, its value can overtake the product leader.



# Data is the new raw material of digital economy

- Data makes everything digitally transparent
- Data can be collected, stored, combined and multiplied almost endlessly with nominal cost
- By reading and analyzing data, we learn to understand societal and economical trends: changes in characteristics, behavior, activity, wearing, consuming, preferences etc.



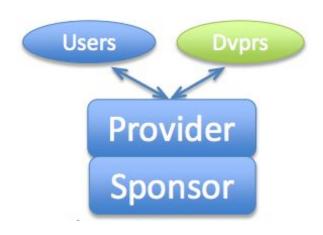
# Fact No DATA = No Al

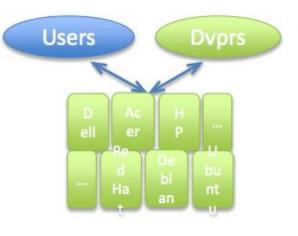
# Poor DATA = Poor Al

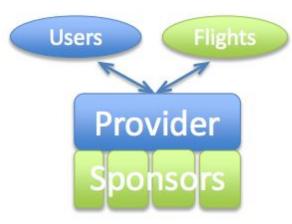
# Platform Economy Business Models

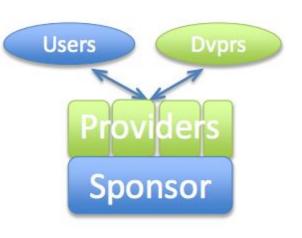


# Models For Organizing Platforms

















Proprietary

Multiple Providers and Branded Versions Aggregator

Licensing

# Not only for consumer biz.





## Analog to digital in water consumption



# Case Study Startup Commons / EcosystemOS

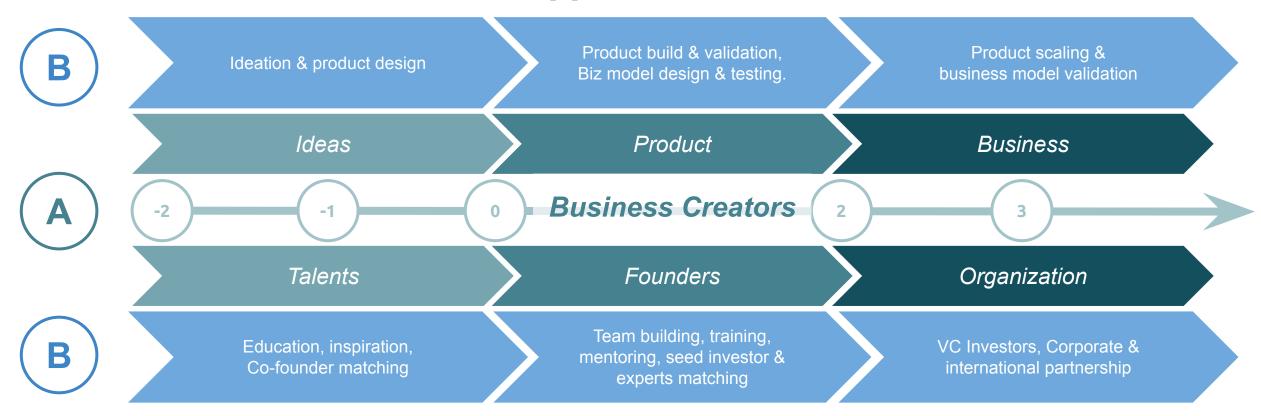
# DIGITAL ECOSYSTEM STRATEGY



### **Ecosystem Operators**

"Strategically developing ecosystem as a whole from holistic perspective"

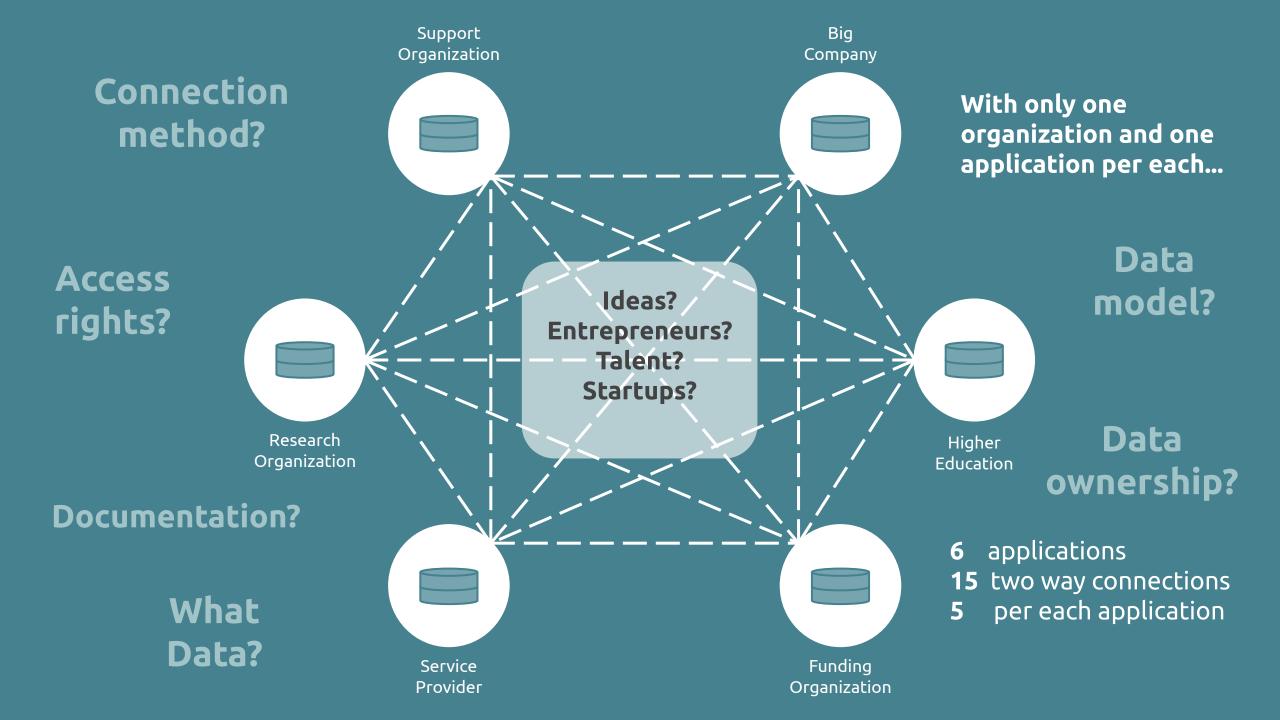
### **Support Providers**

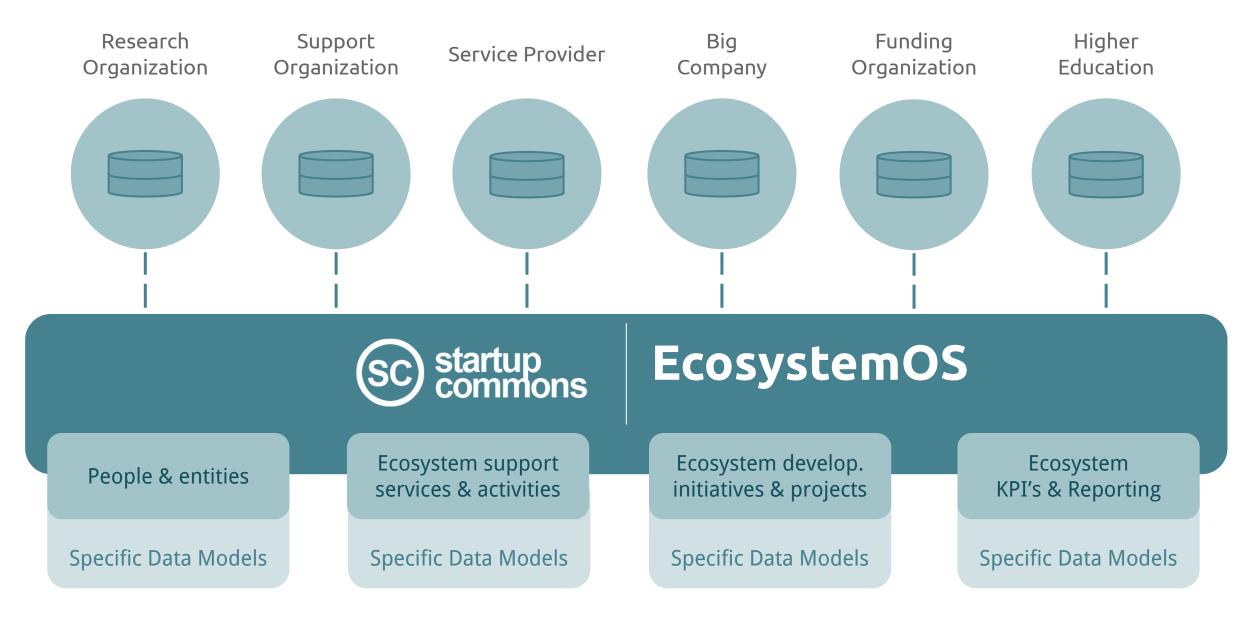




### Digital

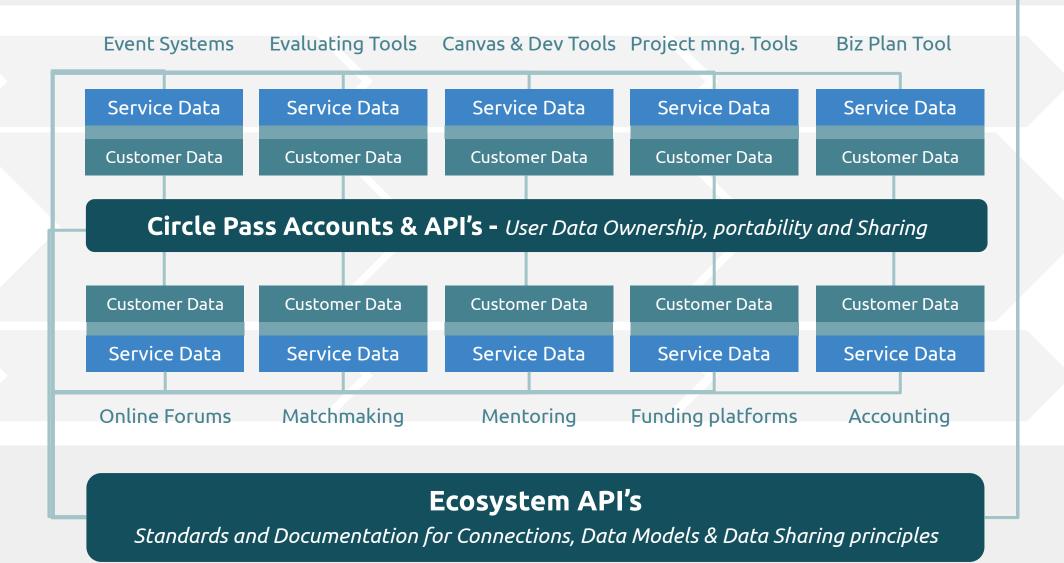
"Digital tools, eLearning, user data portability & KPI data..."





**Data Model Categories** 

Semi AutomatedManagedAutomatedAutomatedService MappingEco.Dev. ProjectsEcosystem PortalKPI DashboardServices DataProject DataEcosystem DataKPI Data





# Designing a Platform

# Ecosystem Assessment

# CUSTOMER NEEDS/DEMAND

**End users / Consumers** 

**Key Expert Groups** 

Companies / tech providers / service providers

**Development companies / Researchers / Institutes** 

**Public Sector Actors** 

# **Surrounding ECOSYSTEM**

Digital Platform

**KEY DRIVERS OF CHANGE** 

Driver 1

Driver 2

**Driver 3** 

**Driver 4** 

### **CORE ASSETS**

**Core Technologies and Key Enablers** 



**Data Sets, Data Flows and Data Storages** 



**Real and Digital World Asset Combinations** 

# CUSTOMER NEEDS/DEMAND

### **End users / Consumers**

Identify customer needs and changes in markets.

### **Key Expert Groups**

Identify experts needs for services and data.

### Companies / tech providers / service providers

Identify needs of solution providers businesses.

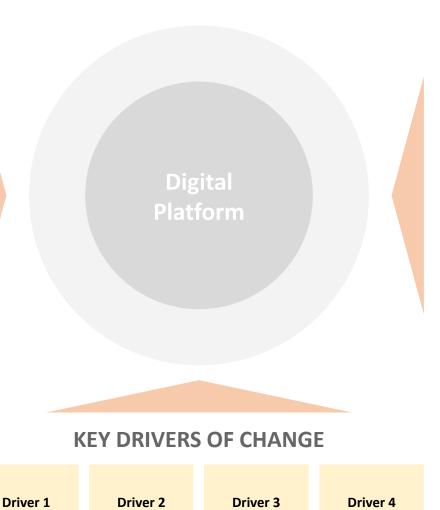
### **Development companies / Researchers / Institutes**

Identify "middle men's" needs in utilizing information.

### **Public Sector Actors**

Identify public sector needs in steering mechanisms and services development.

# **Surrounding ECOSYSTEM**



### **CORE ASSETS**

### **Core Technologies and Key Enablers**

Take into use needed technologies.

Existing and emerging.



### **Data Sets, Data Flows and Data Storages**

Utilize all available data, by combining different data sources. Own and others.



### **Real and Digital World Asset Combinations**

Combine real world and digital work assets and skills to new winning combinations.

# CUSTOMER NEEDS/DEMAND

### **End users / Consumers**

Analyze existing, new and changing needs of target group in relation to current supply.

### **Key Expert Groups**

Analyze experts expectations in context of solving issues and recognize best holistic service combinations that would best match with those expectations.

### Companies / tech providers / service providers

Analyze relevant companies business offerings holistically to recognize most compelling combinations that would best enhance the industry as a whole.

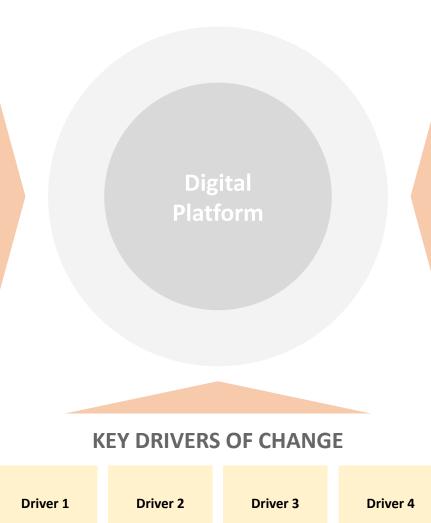
### **Development companies / Researchers / Institutes**

Identify relevant experts, researchers, solution providers, institutions etc. key functions to create new winning combinations.

### **Public Sector Actors**

Evaluate relevant public sector actors holistic needs in both regulatory and responsibility context as well as fixing market demand challenges.

# **Surrounding ECOSYSTEM**



### **CORE ASSETS**

### **Core Technologies and Key Enablers**

Evaluate the potential and suitability of core technologies and technical enablers as technologies for platform and as enhancers of platform business. Most promising are selected to be used, while preparing to make changes based on learnings.



### **Data Sets, Data Flows and Data Storages**

Take into use all of the most relevant data sets and sources to build new winning combinations by crossing industry verticals and geographies. Manage that quality, relevance and volume of data reflects the needs of the platform. Combine the data sources with new data that platform will generate to create new winning combinations.



### **Real and Digital World Asset Combinations**

Combine real world information, infrastructures and skills supply with matching digital assets and sources.

Combine all platform parties data sources with platforms own data as platform assets/supply.

### **CUSTOMER NEEDS/DEMAND**

### Customers, Clients, Users, Care givers, Family

- Wellness information - Care information

- My Data (health records) - Information service

- Life style decisions - Risk assessment

- Preventions - Service provision

### Health-, Wellbeing and Social Care Professionals

- Wellness information - Care information

- Health records - Service effectiveness

- Home care solutions - Decision support systems

- Seamless, multi-professional team work

### **Companies/ Service providers/ Care Associations**

- Client information - Service design and effectiveness

- Training and education - R&D data

- Impact and Results - Behavioral data

- Equipment and facility development

### Researchers

- Medical solutions - Service design

- Care solutions - Process development

- Population data usage - Impact analysis

- Solution development - International collaboration

### **Public Sector Actors (costs + quality)**

- Databases ad registries - Population health data

- Decision support systems - Public funding support

- Service processes

- Effectiveness

- Citizen services - Triage care process

### **ECOSYSTEM FRAMEWORK** for Health and Wellbeing

### PLATFORM OPPORTUNITIES

Virtual Hospital

My Data-**Operator** 

Health 'big' data platforms

Webstore of Health

### **KEY DRIVERS OF CHANGE**

Seamless Service and Care Paths

Individual **Health Care**  Preventive Health Solutions

Wellbeing Trends

### **CORE ASSETS**

### **Core Technologies and Key Enablers**

- Data centers and data farms

- Clouds - Data models and APIs

- Archives

- Bots and agents

- Telco architectures (5G) - Robotics

- AR/VR

- Al

- Blockchain

- Analytics

- Visualization tools

- Service architectures



### **Data Sets, Creation and Assets**

- Patient records

- Contracts

- Picture archives

- Health records

- National archives

- Training data

- Biobanks

- Health data

- Nutrition data

- Genome banks

- Pharma databases - Maps and addresses

- EBM guidelines - Location data

- Service databases

- Self care data

- Sensor data (= wearables, monitoring)



### **Key Assets/Processes for Data Acquisition**

- Computers

- Patient record systems

- Systems

- Equipment (hospital, home)

- Robots

- Assets (hospital, home)

- Wearables

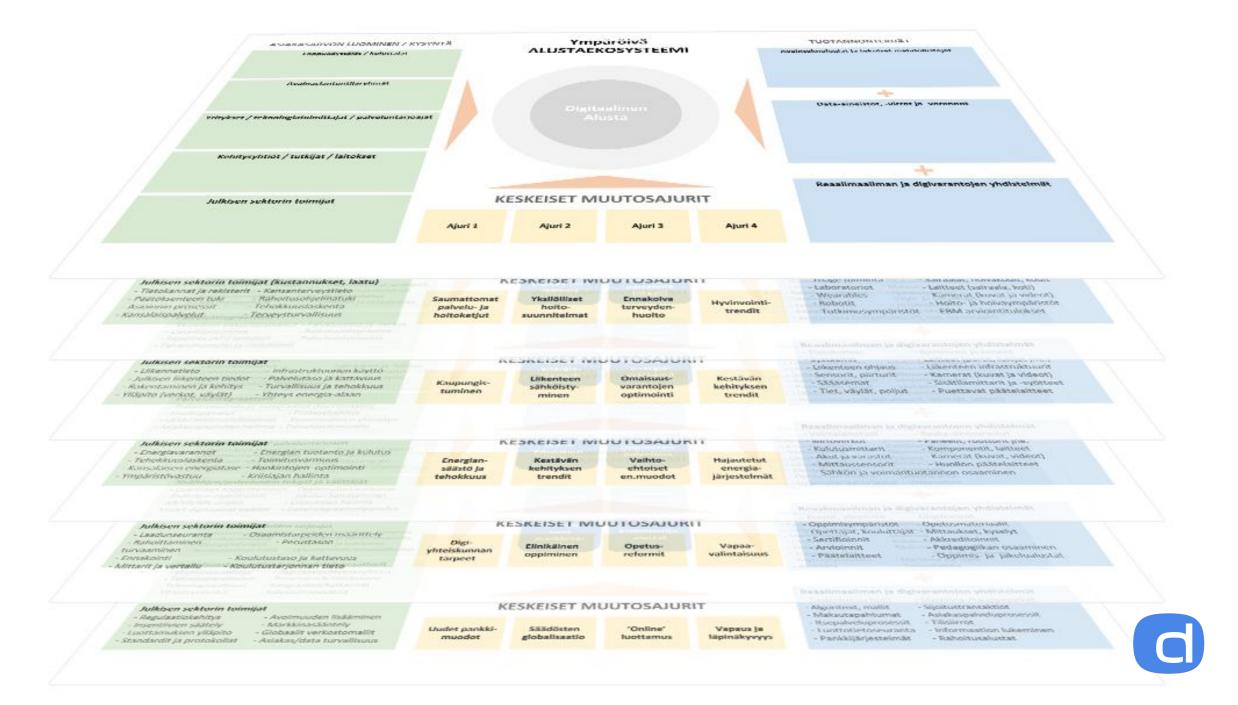
- Cameras

- Sensors

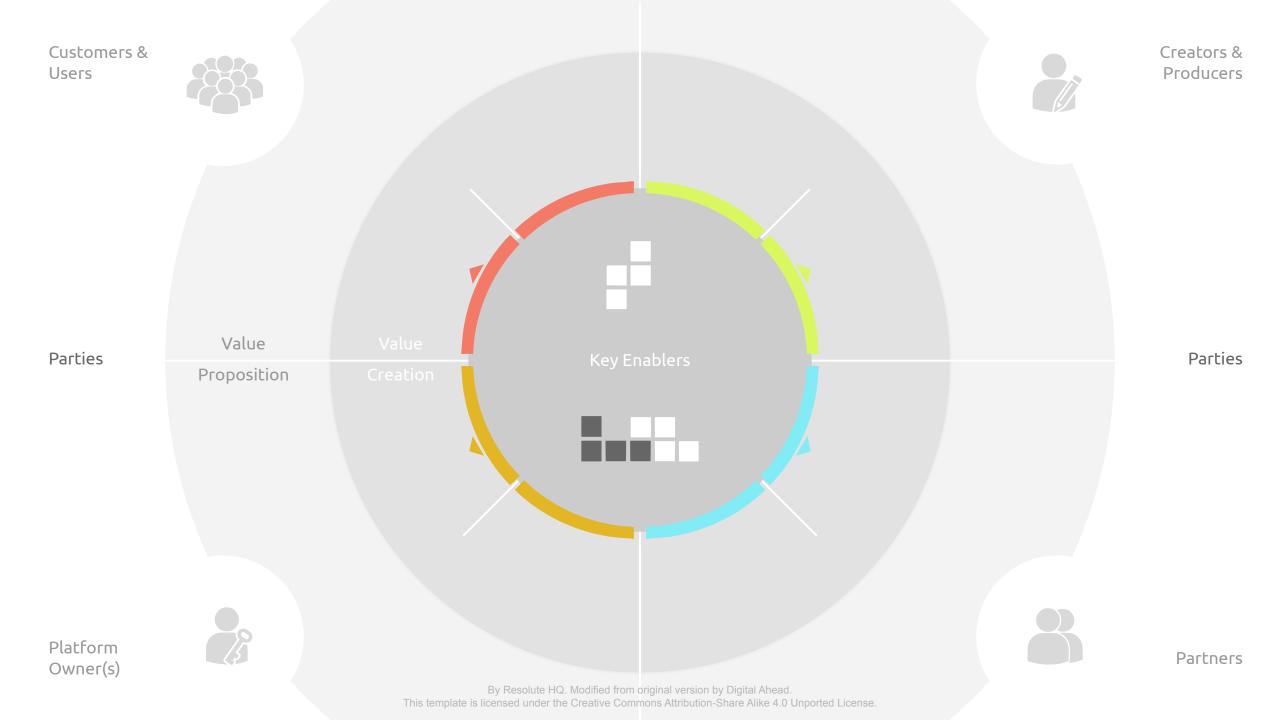
- Vehicles

- Archives

- FBM test results



# Platform Opportunities







Creators & Producers

# **Parties**

Define key parties in each corner.

Name and describe as detailed as

Value **Parties** 

Proposition

possible. Typical parties are

owner, customers/users, creators

and partners.

**Parties** 





**Partners** 

**Parties** 





Creators & Producers

# Value Proposition

Define and describe value

Value

Proposition propositions for each party. Does

the platform produce real

measurable value for each?

**Parties** 

Platform Owner(s)





**Partners** 





Creators & Producers

# Value Creation

Describe what each party is

Value Parties Value

Proposition expected to contribute and what

will they gain. What does these

parties want to give and get?

Parties





Partners



# **Key Enablers**



Creators & Producers

**Parties** 

Think and describe nessesary technologies, technical enablers, data sets, data collection processes, tools, services, rules & standards, etc. that are required for digital platform to function in such way that it will produce the described values and fulfill the expected value propositions of each party.

Platform Owner(s)

Partners

**Parties** 





Growing the volume of participants



**Services** 



Connect demand / supply



**Platform** transactions



Consume





Compensate / Monetize



Matching



Rules & Standards



### Growing the volume of participants

- Attract parties to join the platform, to grow the volume of each party in the network in balanced manner, considering supply and demand.
- So that exchange of value can start to emerge.



### **Matching**

- Match each parties with those parties whos supply is meaningful for the matching other party.
- Or else, all parties are looking for the "needle in a haystack".



### **Rules & Standards**

- Platform needs to create the rules that define what is allowed and what is not. For example; what type of behavior is encouraged and what is not. This include two main component;
  - Entry and usage moderation; Who can join, who can't and why?
  - Usage moderation; moderation of the quality of activities and support,
     based on feedback by each parties
- If these are not managed properly, quality will diminish as the volume of each party grows.



### **Tools & Services**

- Platform offers key tools and services like; technology that supports each step in the key transactions. Tools are self service and "plug & play" type of solutions.
- Services on the other hand are things that platform centralizes and manages itself. As an example these are be insurances to parties, marketplace and user support.



### **Create Supply**

- Parties in the platform need to produce something of value like; content, services, products, solutions etc.
- This is the supply that platform offers.



### Connect

Platform need to help connect the demand with relevant supply



### Consume

- Parties in the platform consume and experience the value of the supply.
- This can be reading content, purchase of a product or downloading an app.

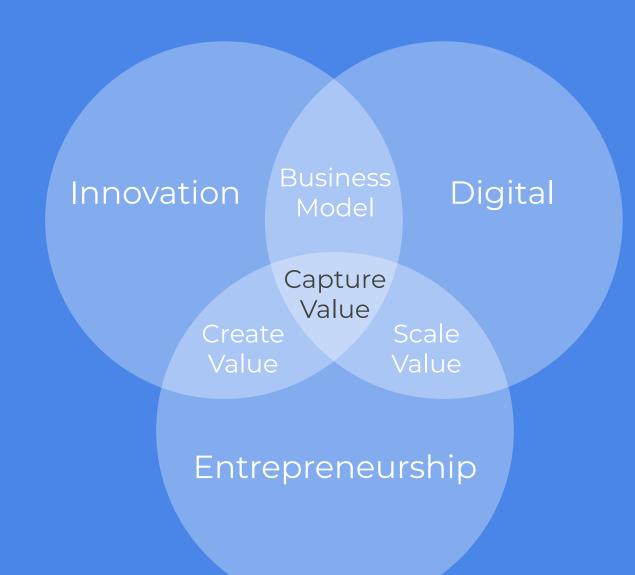


### Compensate

- Party that is consuming supply also produce value in return when they consume the supply.
- This is not necessarily money, but can also be "liking", recommendation, attention etc.



# Traditional vs. Digital DNA

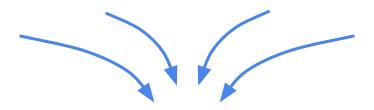


### Sin x + sin B - 2sin



#### Common Users Perception

How most people see, think
 & experience internet
 services and applications.



Website
User Interface (UI)

 And as such it is the "digital economy" as they see it.

#### Internet

#### The Real Digital Economy

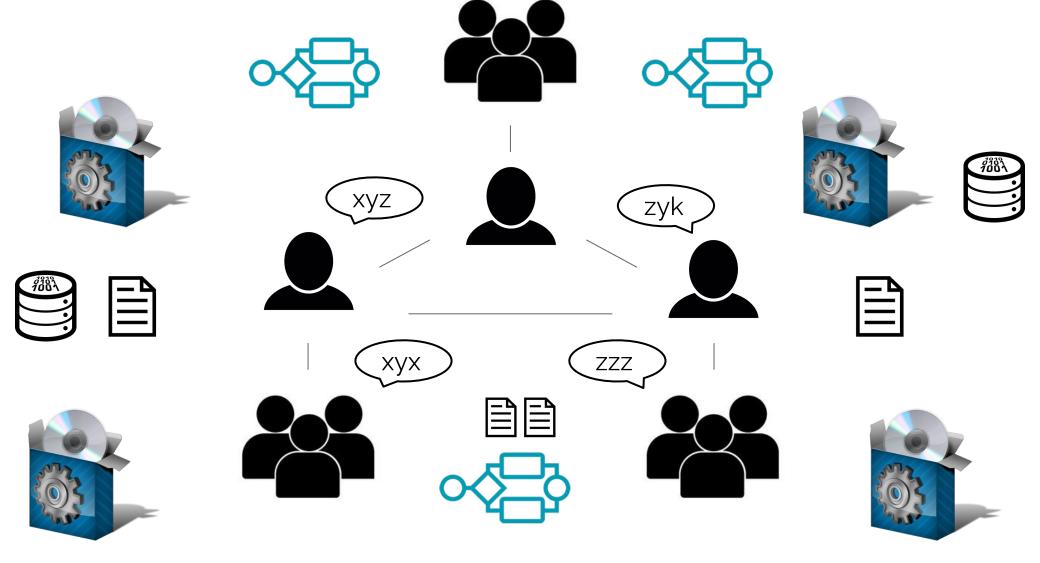
"Is what happens behind the UI's"

API economy, Data economy, Digital ecosystems...

Back-End Software

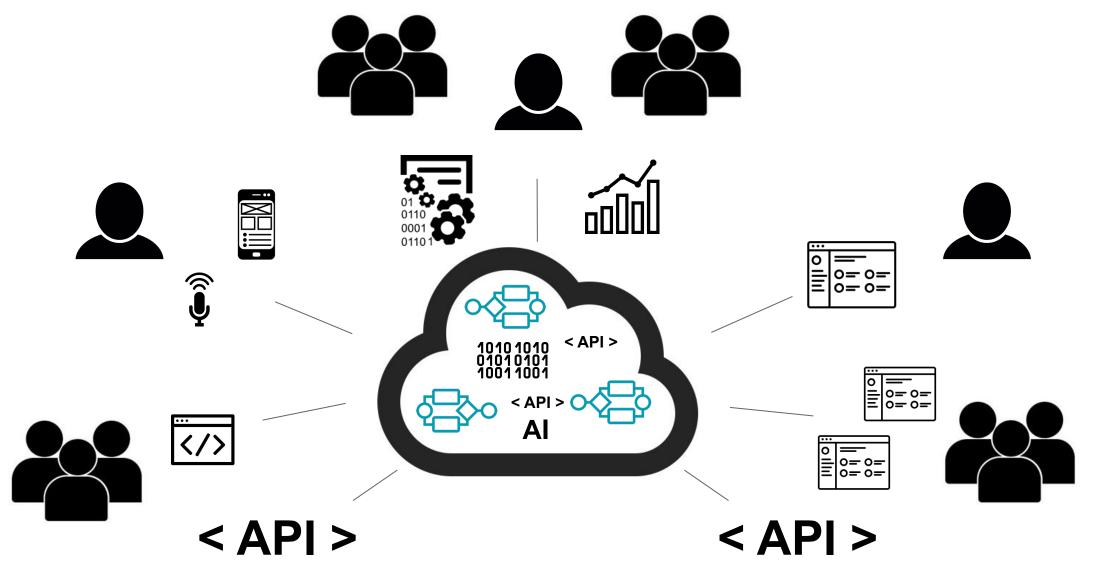
Data

- Developer users
- Other businesses as users
- Other applications as users



Traditional Organizations





#### Digital DNA

Facebook, Google, Amazon..



#### Jeff Bezos, Amazon CEO - 2002

- All teams will henceforth expose their data and functionality through service interfaces.
- Teams must communicate with each other through these interfaces.
- There will be no other form of inter-process communication allowed: no direct linking, no direct reads of another team's data store, no shared-memory model, no back-doors whatsoever. The only communication allowed is via service interface calls over the network.
- It doesn't matter what technology you use.
- All service interfaces, without exception, must be designed from the ground up to be externalize-able. That is to say, the team must plan and design to be able to expose the interface to developers in the outside world. No exceptions.
- Anyone who doesn't do this will be fired. Thank you; have a nice day!

#### Outcome

"These platforms became a network of business units that were integrated through the flow of data and information. From a software architecture standpoint, loosely coupled systems, data and software became re-useable across apps and departments."



"Digital transformations are actually transformations of mindset, business model, culture, and operations. These are people problems, in the main, not technology issues." - The Daily News



"Research from the likes of Cap Gemini has failure rates at 70% and Forrester attribute over 40% of this to internal business units fighting over ownership as the transformation proposition evolves." - The Drum



"Research shows that 70 percent of complex, large-scale change programs don't reach their stated goals." - McKinsey



"Playing **red** or **black** in a roulette table, would in fact give better odds for your investment..."

#### 2md 12

## From Transformation to Transition

#### Transformation

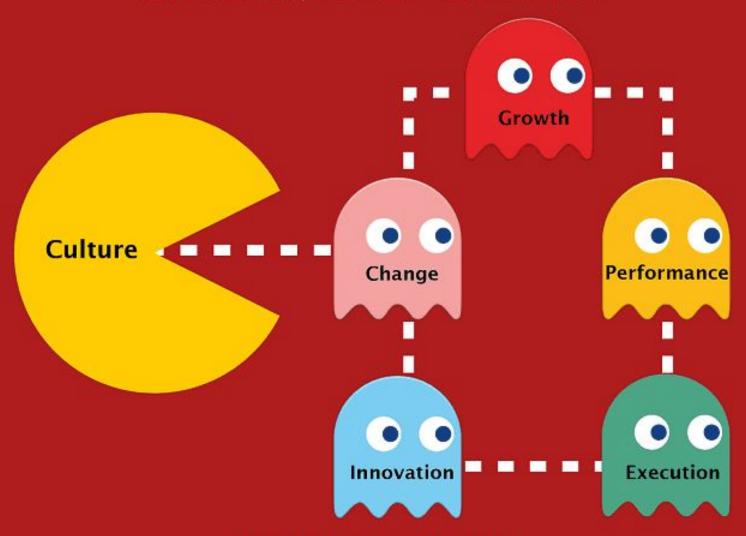








#### Organizational culture eats strategy for breakfast, lunch and dinner



Torben Rick www.torbenrick.eu

#### Transformation

- Too slow
- Require cultural change on multiple dimensions (digital, innovation, lean execution, etc.)
- Fighting & restructuring human dependent existing processes
- Training existing people
- Adds additional risks also to existing "cash cow" business



## Trying to Change People is Hard.



## Trying to Change all People in an Organization is..!



In context, designing new organizations with new people & skills becomes way easier!



# Other Typical Approaches

#### Typical Startup Paths

- Organic growth too slow/limited and VC track too limited and fixed
- Lack of customer access, fighting for resources and constant risk of foundational problems (high rate of terminate failures)
- Require to build basic organization and innovations at the same time
- Limited supply of talented entrepreneurial people willing to take ultimate risk



#### Corporate Venturing & Acquisition Paths

- DD challenges
- Many fundamental problems, making it rare option to continue with existing entity model & team for future growth
- Unclear relationships with mother entity & business
- Trying to absorb to existing organization face resistance
- Risks often losing the big portion of the value expected to gain





#### Combining Speed of Innovation Cycle with Organization Stability

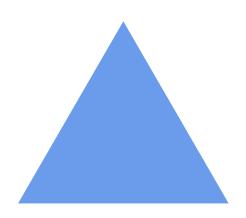


#### The 3rd Way - Transition

- 1. Separating top level strategy and resource management to own structure with required skills and decision making capabilities/abilities
- 2. Keeping existing repeatable businesses as they are and maximizing output
- 3. Creating and growing new digitally native, born global, lean innovation for growth organizations, to execute; searching and scaling of new repeatable and globally competitive digital economy business models
- 4. Build entrepreneurial teams with talent pool that seek to build future but are unable or unwilling to commit to full entrepreneurship risk & pain.





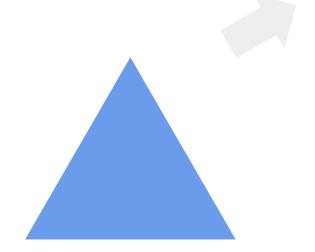




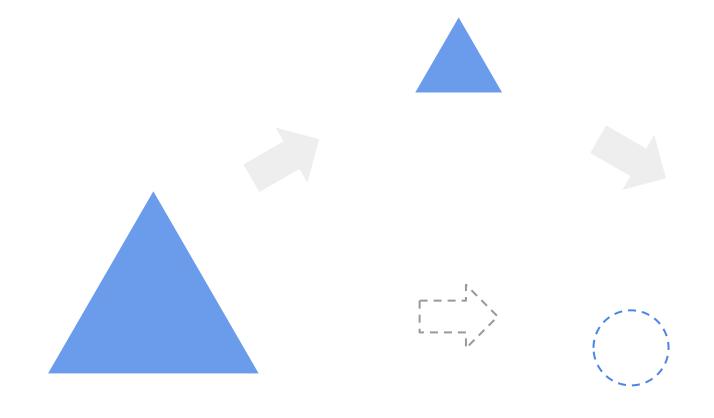






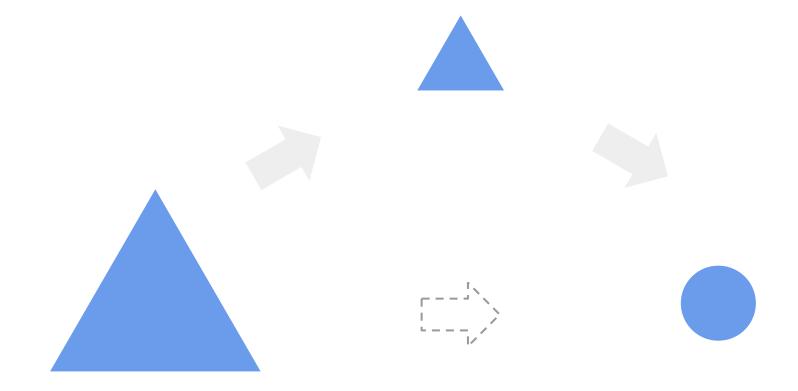




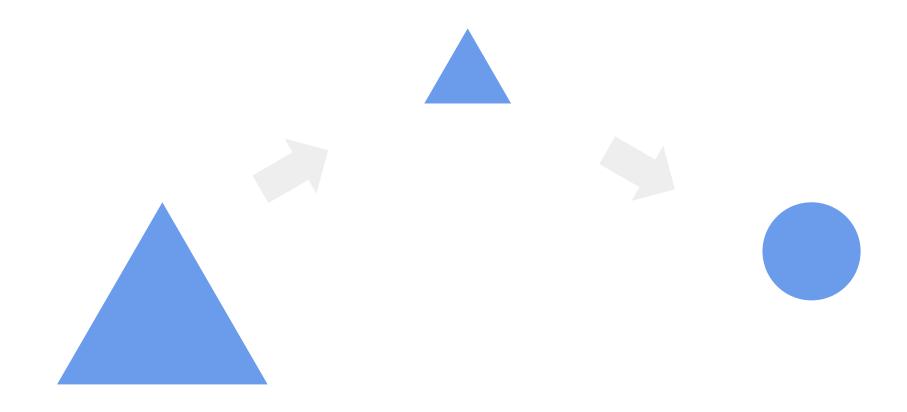




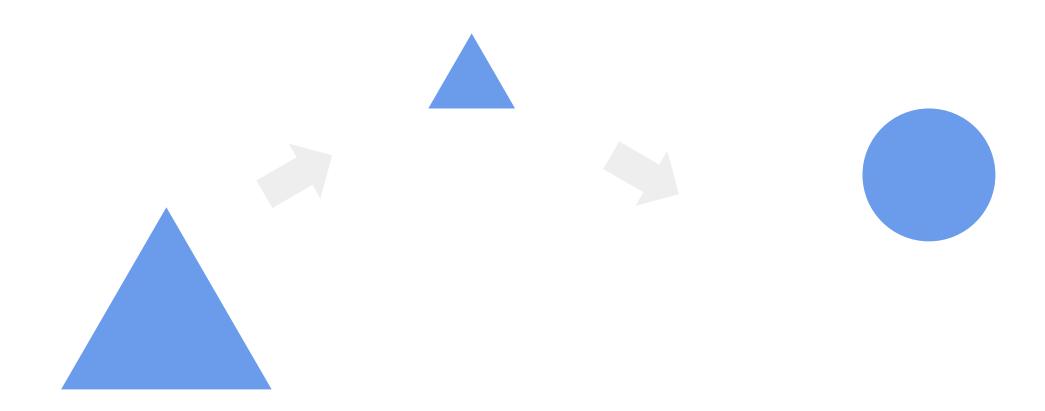








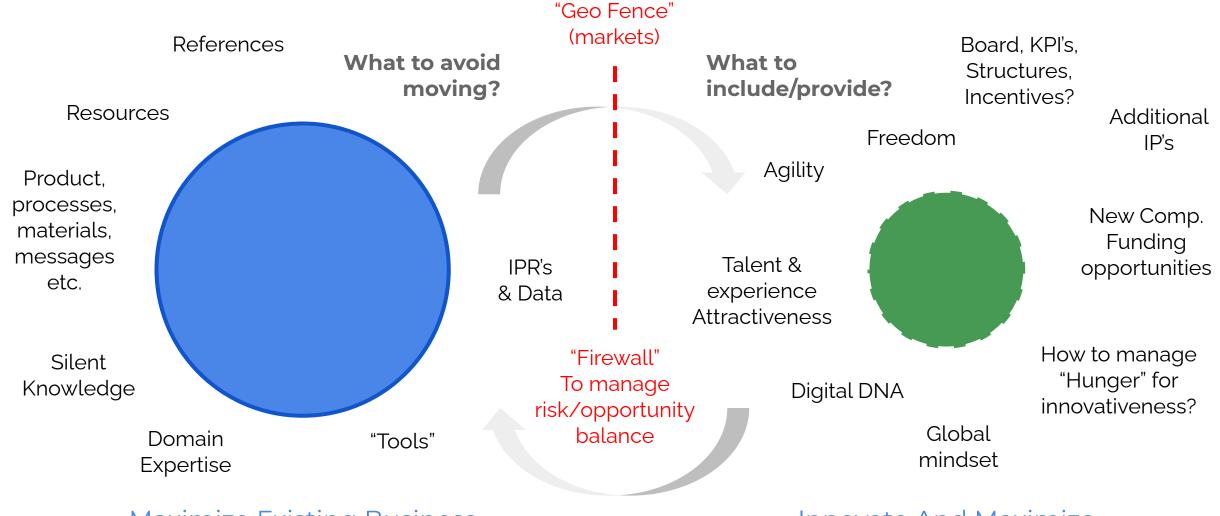






#### Existing Entity & Business

#### Spin-off Entity & Business



Maximize Existing Business
Output & Minimize
Transition Risks

How is the ongoing relationship?

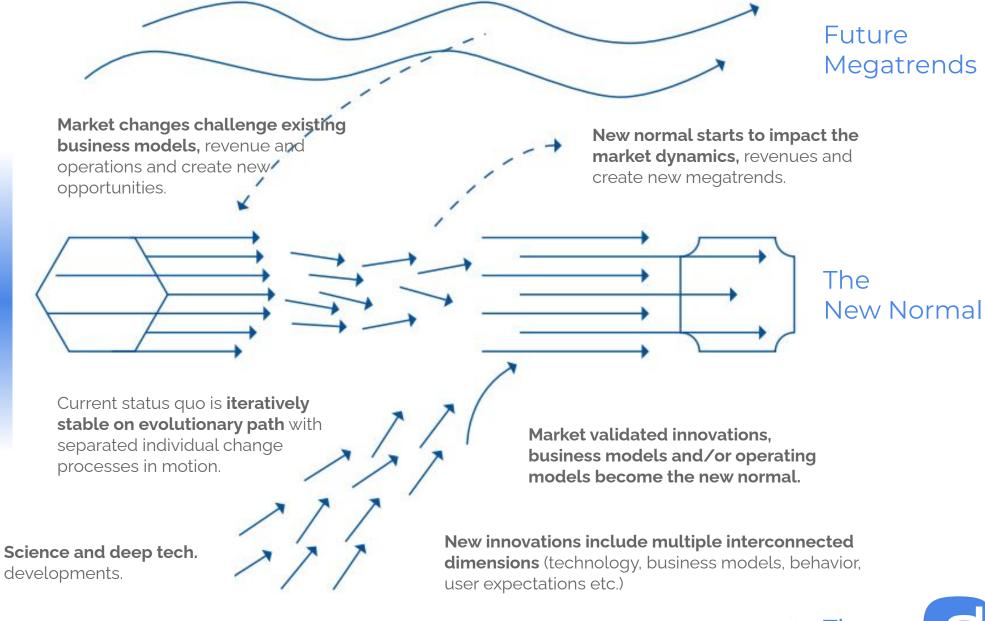
Innovate And Maximize
New Global & Digital
Opportunities



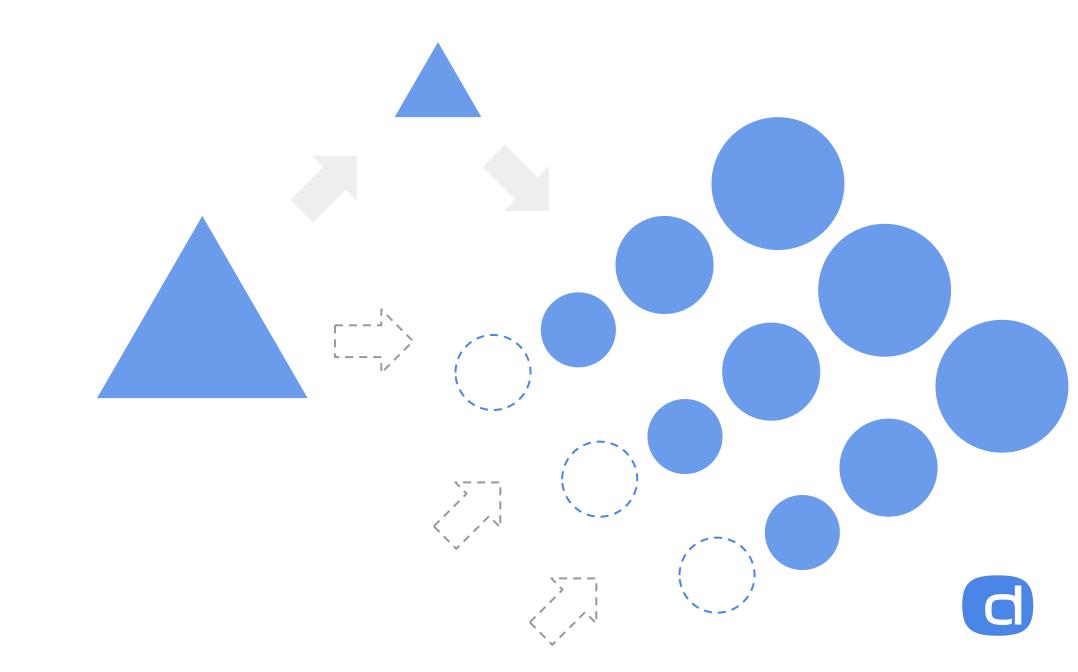
### Global Megatrends

Markets Status Quo

Innovations & Validations







# Even the biggest digital disruptors are adopting the approach to gain more freedom to innovate.



### Alphabet



# is for Google

As Sergey and I wrote in the original founders letter 11 years ago, "Google is not a conventional company. We do not intend to become one." more

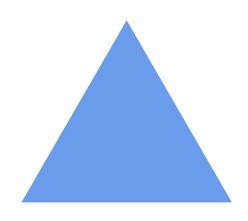
Surry Page

Larry Page







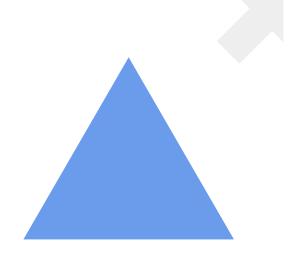


Google



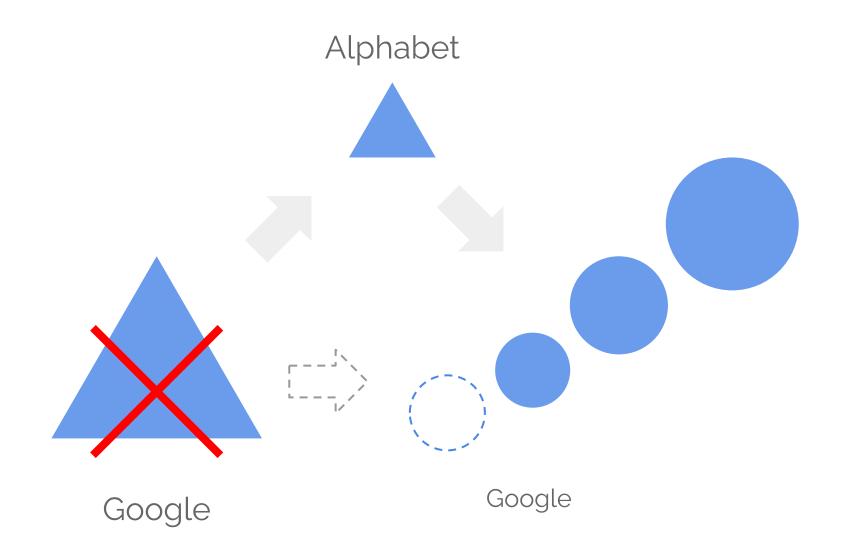
Alphabet





Google







# Alphabet Google Boston Dynamics etc.

"Spin-offs from known companies, in contrast, mean less risk, as investors have a clear view of the reputation, infrastructure, and credentials of the parent company. you're likely to get VC funding more easily and on more favorable terms." -VentureBeat



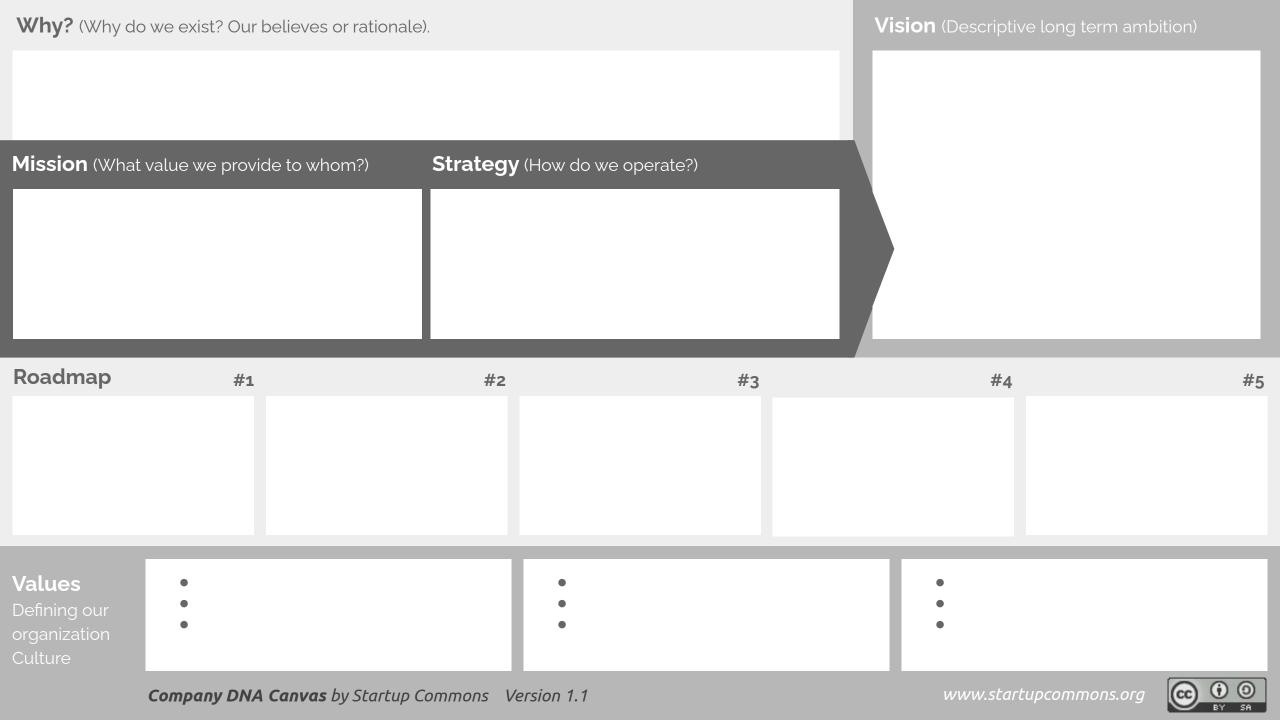
"Spin-offs are known to often outperform other types of companies and they're 108 times more likely to IPO than other companies. Yet in spite of this, they're uncommon among startups" - VentureBeat





# Sin x + sin B - 2sin





# Transition to digital business

- Sitting on your side of the table
- Trusted advisors and mentors to help
  - Navigate digital landscape
  - Select the best fitting digital architectures, technologies, vendors and other related solutions
- At all key phases of your transition
  - Assess & Design
  - Build & Launch
  - Operate & Iterate



# Our Services for Key Development Phases



### **Digital Service Development**

- Business potential assessment
- Digital DNA & business model design

**Digital Business Design** 

- UI prototypes & Data models
- Solution architecture design
- RFP for vendor selections

2.
Build

- Vendor assessment & selection advisory
- UX/UI & Data Model Design support continuum
- Product Owner as a service
- Digital Business Training &
   Mentoring for owners & leaders
- Product Management Setup
- Development and release phasing



### **Digital Business Operations**

- Digital team structure and development
- Data strategies & policies
- Iterative business evaluation& development
- Feature prioritization
- Product Management SaaS

# Our Services for Key Development Phases

1.
Design

2.
Build

3.
Operate

**Assessment** 

≈5k

1-2 weeks

**Our Advisory** 

≈5k/month

6-24 months

As needed

≈5k/month

and/or PM Software 200/month

**Design Project** 

≈30k

2-6 months

To Build

≈100k-500k

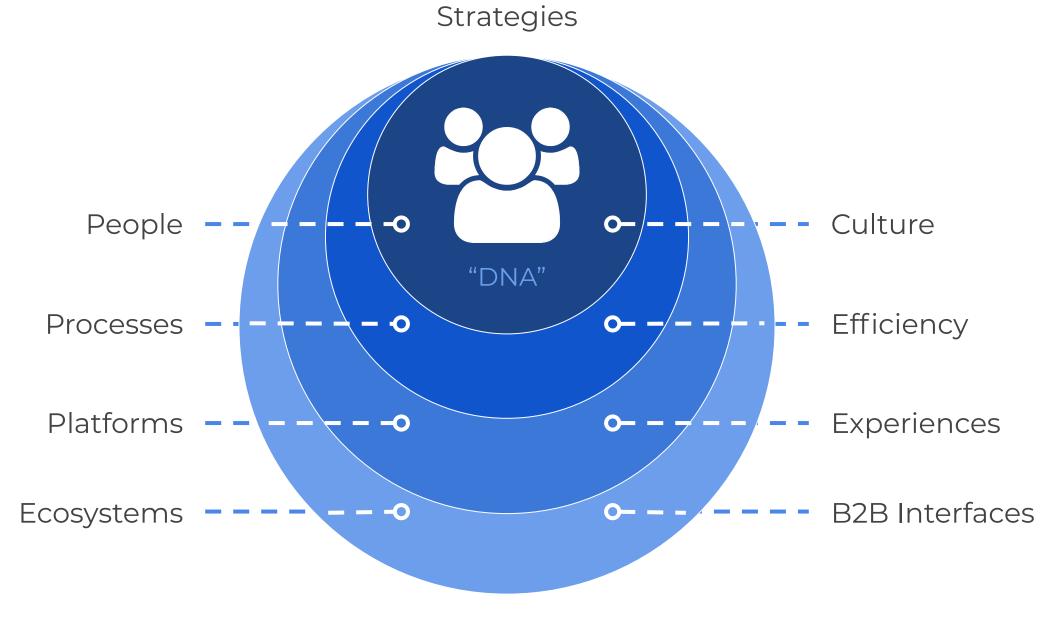
**Selected vendors** 

**Selected Vendors** 

≈2k-10k/month

**External services** 

Typical budgets in Euros



Technologies

# Transit to Compete!

# Want to learn more about tech side?

Tools of EcosystemOS

TechStack For Ecosystem Orchestration

**Access the webinar recording!** 



## Summary

There is no denying that **Startup companies**, when successful are the ultimate disruptors and creators of new normal. Introducing and validating new innovations to global markets in volumes and at accelerating speed. Many of these innovations spread beyond their originating companies.

Startups also have enormously high failure rates. Depending on the statistics and markets, perhaps 1% or less of all startups actually become the new normal. While success rate at another level among startups having survived their first year in business, is naturally higher than that (perhaps 30%). In forms of; establishing a good business, are organically growing, scaling up or becoming acquired.

After initiating, Startups need to build both; the idea to business and talent to organization in parallel and balanced manner. By design and due harsh realities, Startups are also forced to optimize their team size, talent, resource allocation etc. along each phase of their development.

At the same time, with established organizations that are or have been on profit making mode executing effectively on market validated business model for years if not decades, having been doing iterative or incremental innovation at best, - are facing enormous challenges in the ever accelerating and complex global world, where even the change itself is changing and digital economy is forcing all companies to face digital transformation to validate their business model in digital markets. Faced by disruption coming from startup companies and big digitally native organizations expanding geographically and into new business verticals.

Statistics tell, that even with those who decide go for digital transformation path, only about 30% of digital transformation succeed. Organizations that are incapable to transform or fail to innovate their way our, will decline and/or die.

# Summary

While startups, created by design to explore new innovations and establish optimal organizations for execution and being close to optimal vehicle to invest into specific innovation opportunities with diversified portfolio approach, to tackle failure rates. History and statistics also indicate that it is rare for established stable companies of different size, to commit restructuring or becoming capable to seriously explore new innovations. In most cases, often only initiated due somewhat forcing factors; like quickly declining business, significant change in decision making power (especially in family owned businesses) or being faced with impact of disruption already.

At the same time when reading into research and statistics about success factors of growing companies, spin off businesses and companies that have been changed or restructured from existing company, are actually showing higher likelihood of success that newly initiated startups.

Observations of these statistics have given us inspiration to explore alternative strategies and models for the new normal in innovation itself.

We explore ways to establish new digitally native, born global, innovative companies by design and look into combining all best ingredients and practises from most relevant methods and organization models, - combining those like legos to see how a new company and organization model that would look like. To create an alternative an optimal model to established organizations for growth or simply survival in global digital economy.

Instead of transformation, we call this transition approach. An approach, where new organization is created alongside with existing one, with a strategy to transit the business from old to new. Without trying to transform existing operational organization.

# Questions or Comments?

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