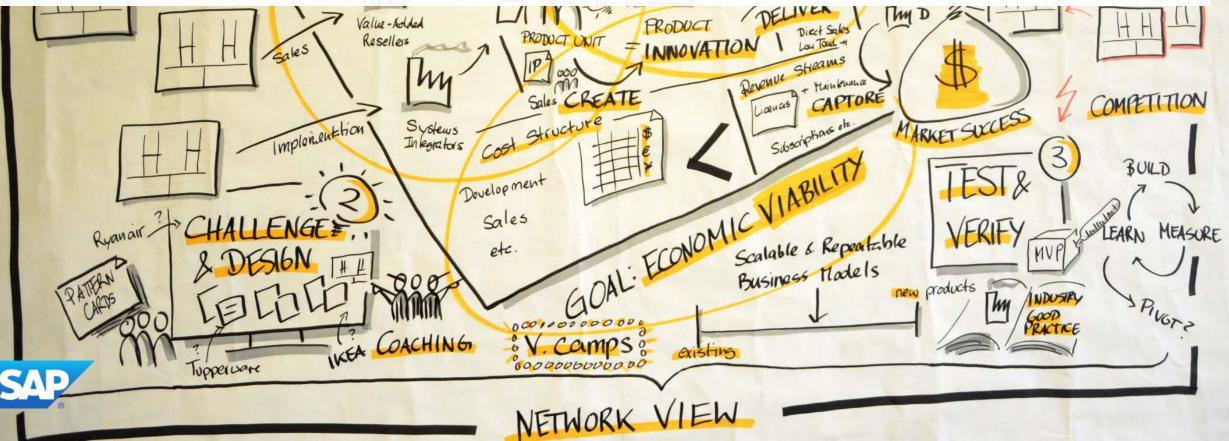
Business Models in the Digital Economy A Digital Business Modeling Approach

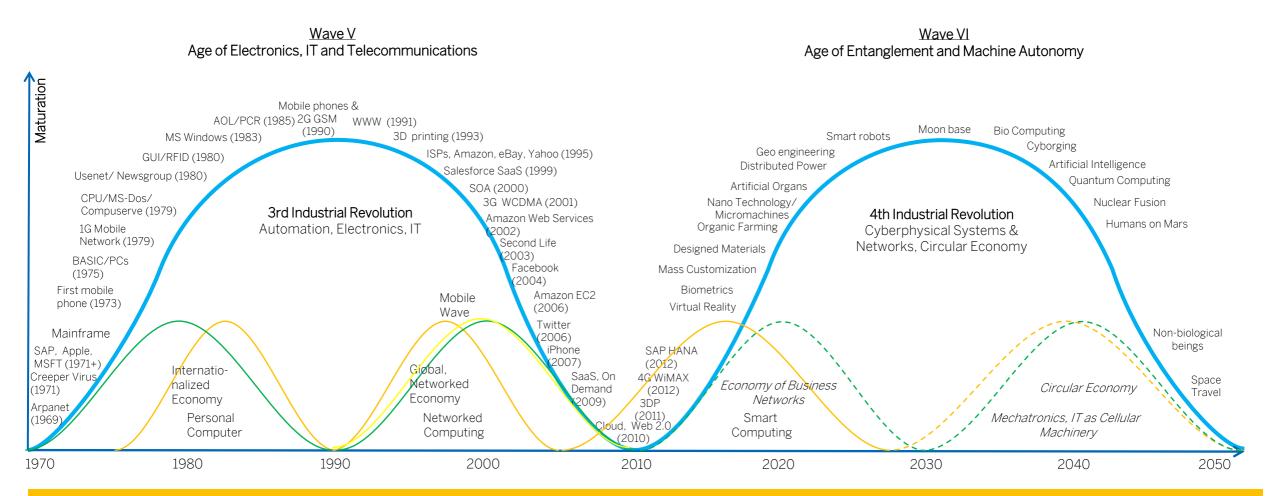
Maria Fay

Learning Program Lead, SAP Digital Business Services | PhD Candidate, University of Liechtenstein

February 19th, 2018, Moscow



General Trends – Kondratieff Long Waves



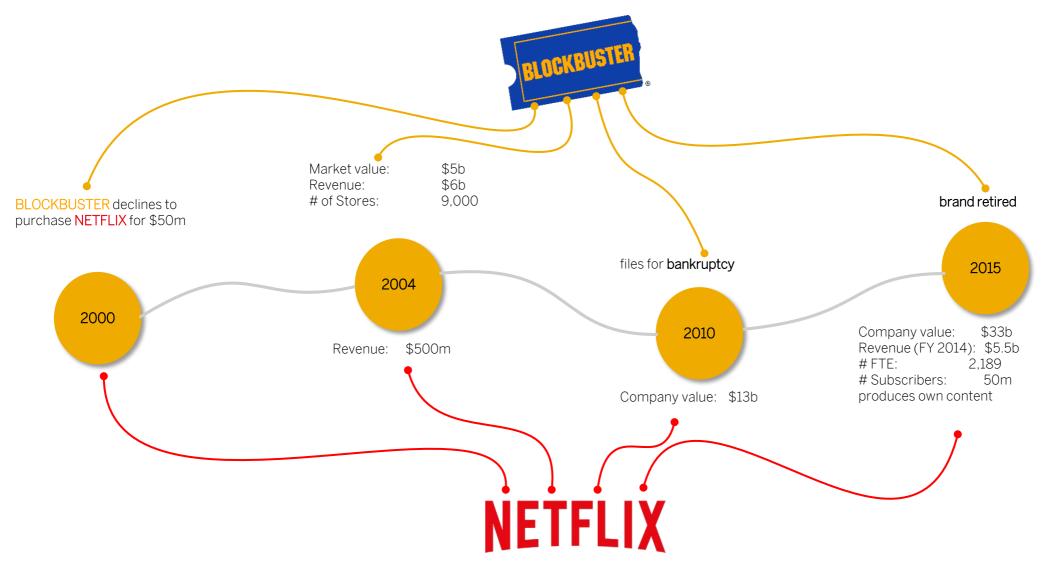
The year 2010, the expansion of the Internet into mobile and social media, mark the beginning of a new wave, where information, knowledge, humans, machines, robots and products are increasingly entangled. The next step into a new wave will probably be space travel.

Sources: Forrester Research, Gartner, IDC, DB Research; World Future Society, 2013 1 Forrester Research, The ICT Market Outlook For 2011 And 2012, 06/2011; 2 The World Bank, Growth rate of mobile cellular subscriptions (per 100 people), 2011; 3 Based on the numbers of IPOs by Prof. Ritter, University Florida; McKinsey Report No.20, Summer 2010. MIT Technology Review Special Issue: 10 Emerging Technologies, Vol. 114/no.3; The Economist, "Catch the wave", 02/1999; Kondratieff, N.D., "Die langen Wellen der Konjunktur", Archiv f. Sozialwissenschaften u. Sozialpolitik, Bd. 56 (1946 [1926]), 573-609; Gartner, Technological Revolutions: The Application of Kondratiev Waves to IT, 01/2007; Carlotta Perez, Technological Revolutions and Financial Capital: The Dynamics of Bubbles and Golden Ages, Edward Elgar Publishing, 2003

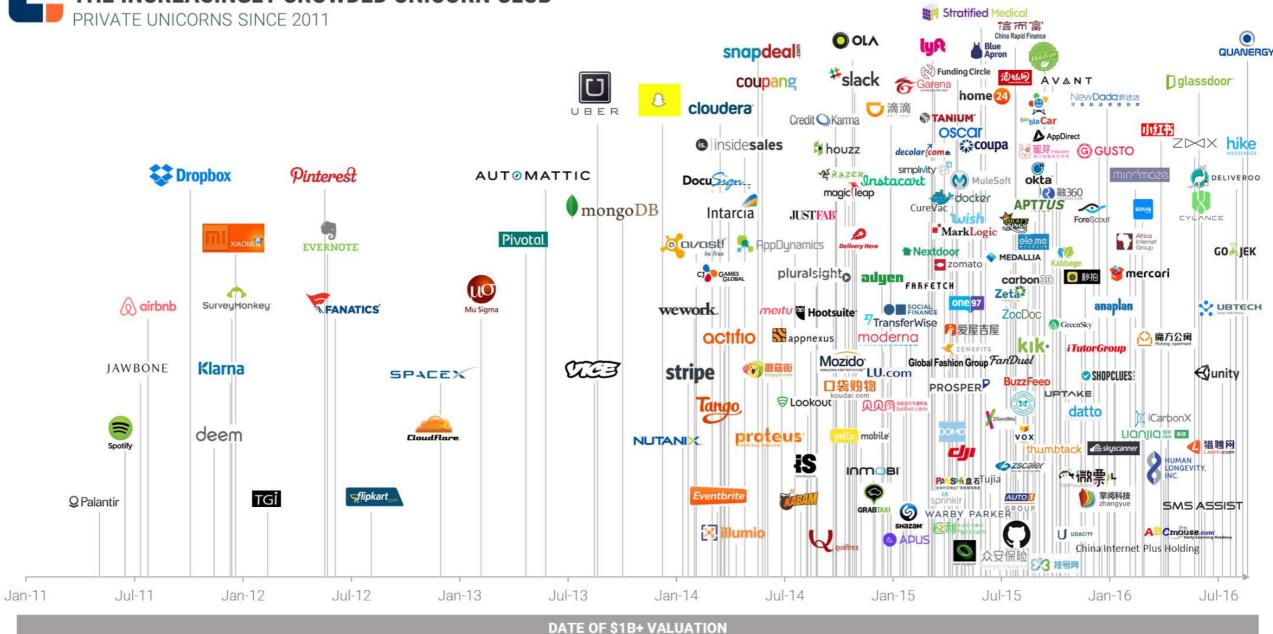
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Impacts of Digitization

Challenges for businesses: get disrupted



THE INCREASINGLY CROWDED UNICORN CLUB

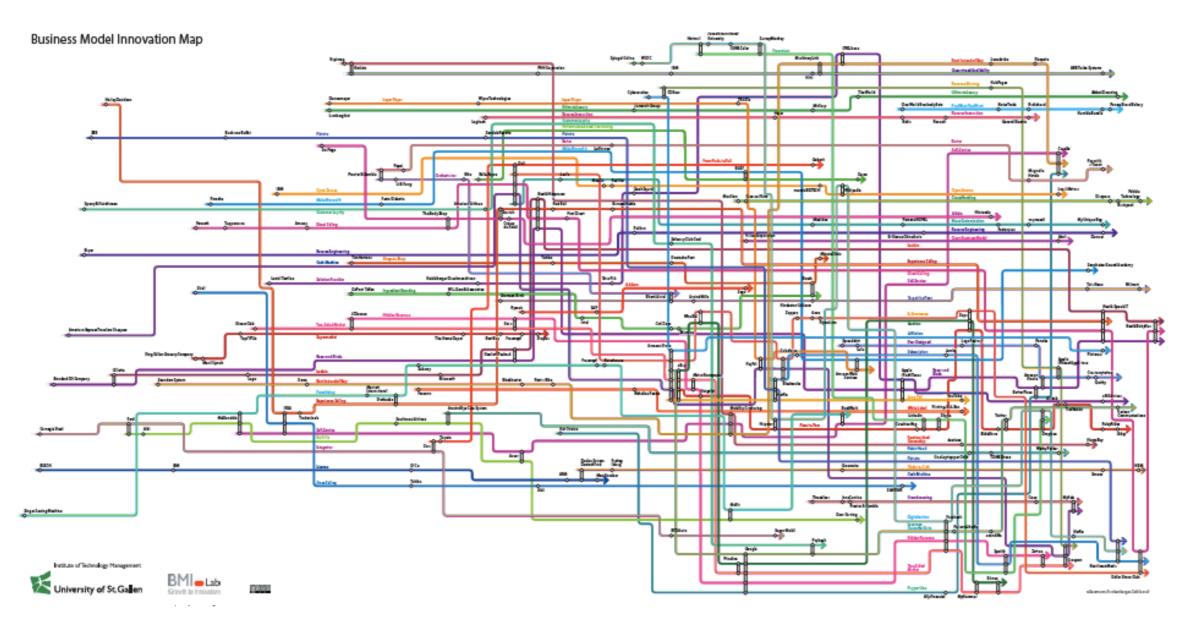


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*excludes companies that exited

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Business Model Innovation Map



Lock-In Strategy Business model patterns



Examples: Rolls-Royce Outcome based models

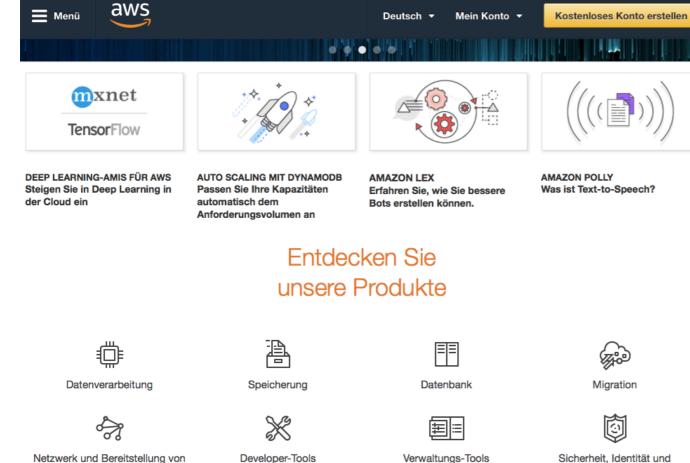


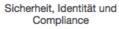
Nor Lines and Rolls-Royce sign landmark Power-by-thehour service agreement

Wednesday, 24 May 2017

Nor Lines and Rolls-Royce have signed a groundbreaking "Power-by-the-Hour" service agreement for the two vessels *Kvitbjørn* and *Kvitnos*. The new service offering harnesses the power of "Big Data" to monitor, plan and perform maintenance and repairs on all the equipment it has installed on the cargo vessels.

Examples: AWS Expand to new industries





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Künstliche Intelligenz

eg

Inhalten

Analysen

Services für Mobilgeräte

G

Anwendungsservices

Examples: Under Armour Digital channel & business platform

WELCOME TO THE WORLD'S LARGEST DIGITAL HEALTH AND FITNESS COMMUNITY.

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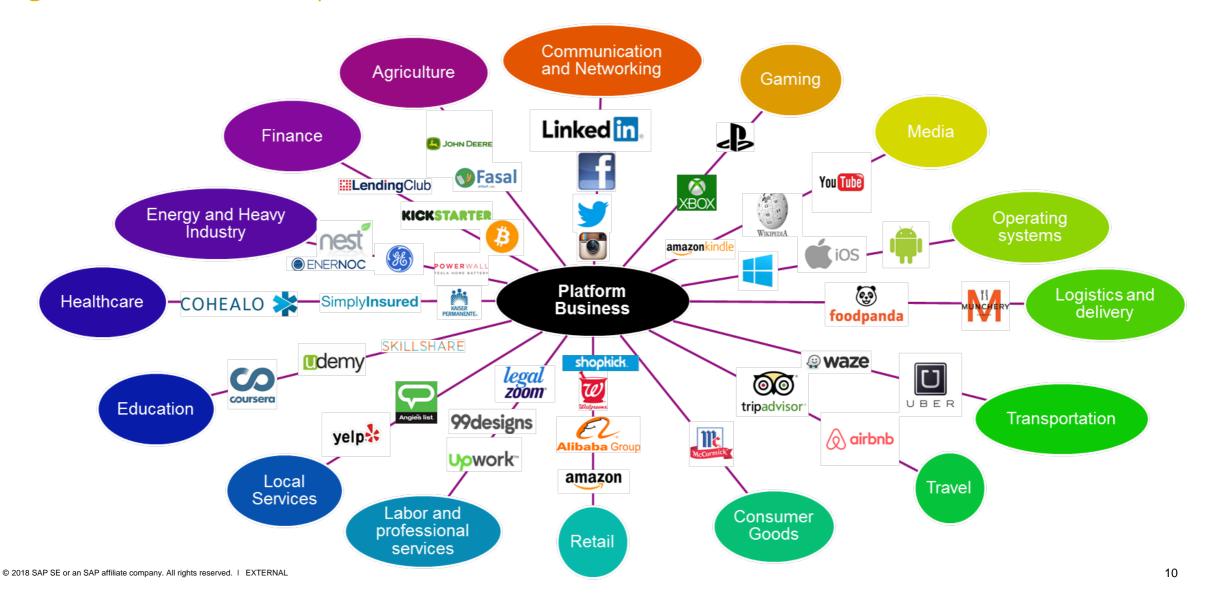


App Store

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Examples: Platform Businesses

Digital channel & business platform



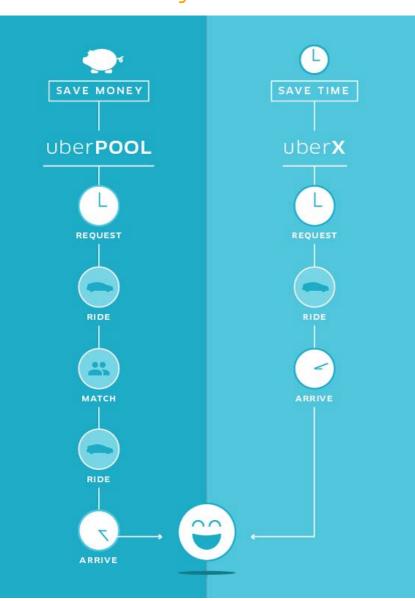
Examples: Starbucks & Spotify Compete as an ecosystem

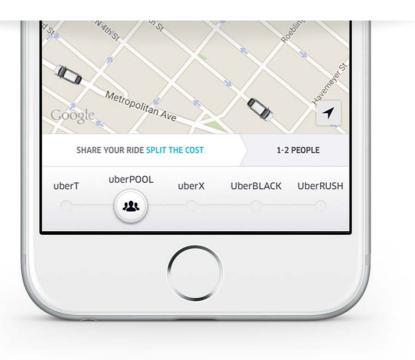
INTRODUCING STARBUCKS[®] Spotify[®]

Take the sound of Starbucks with you.

DOWNLOAD OUR APP >

Examples: Uber Shared economy





Examples: Apple Watch Digitization of Products & Services



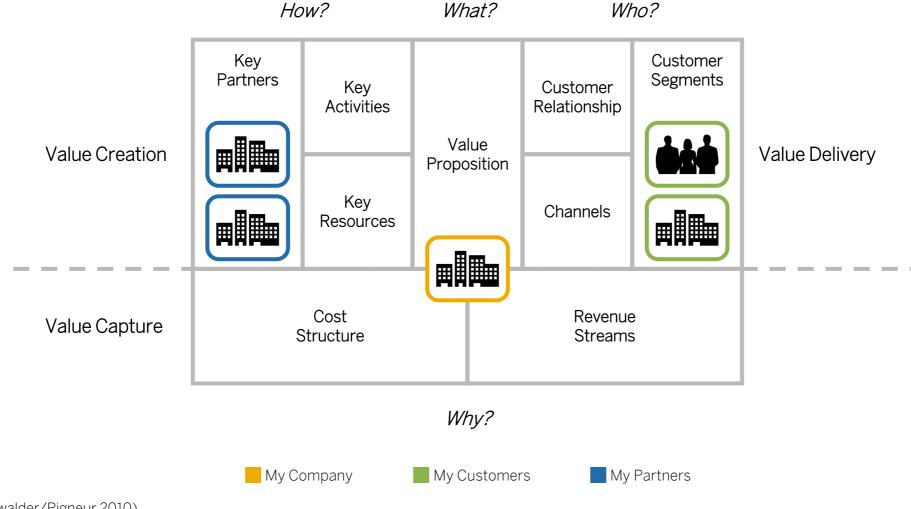




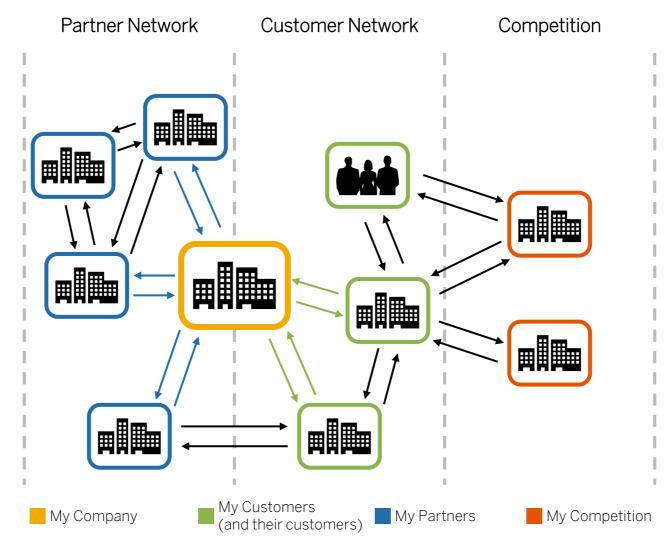
Introduction to BMDI



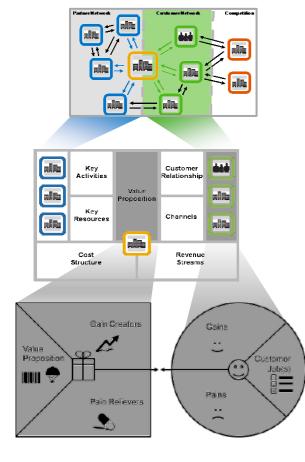
Business Model Enterprise View¹⁾



Business Model Network View



From a Network View or Value Proposition to Business Model Baseline, describing your business / product



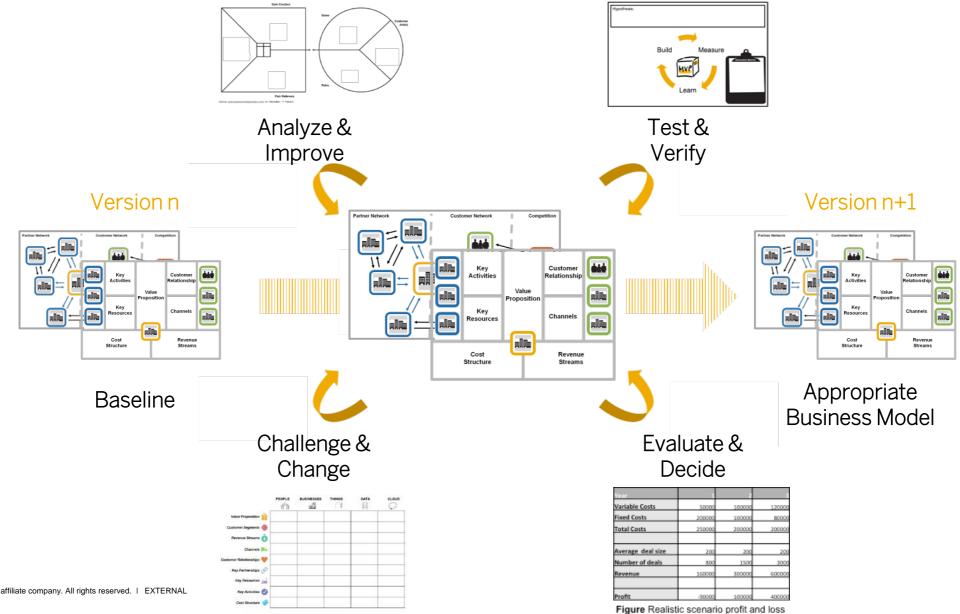
 Network View for the environment you build in

Enterprise View for your own business values

Ideate to create a value proposition for customer

Design Thinking used for product innovation

The Business Model Development and Innovation approach



Digital Business Modelling

Leveraged to define a gamified approach using cards as building blocks for digital business design

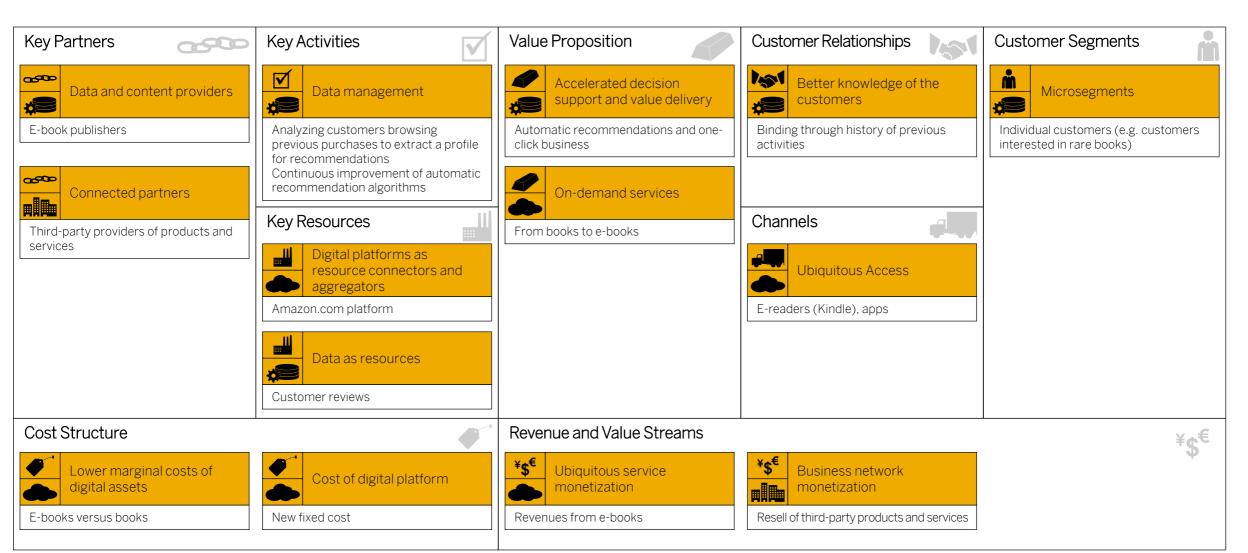
The Business Model Canvas			Designed for:		Designed by:	Date:	Version:
Key Partners	Ø	<image/>	exec	tions	Customer Relationships Social networks Social networks Networks Channels Channels	stomer Segmen	, profiled individual iomers
Cost Structure		Cost-savings based on data-based predictions	<i>*</i>	Revenue Strea	ams Data monetiz-ation Presented to the officer Presented to the o		Ō
CO () () () () () () () () () () () () ()	org/licenses/by-sa/3.0	ns Altribution-Share Alike 3.0 Unported License. To view a copy of this iconse, wet: or sand a letter to Crvative Commons, 171 Second Street, Suite 300, San Francisco, Califor	nia, 99105, USA.			©Strate	EGYZE





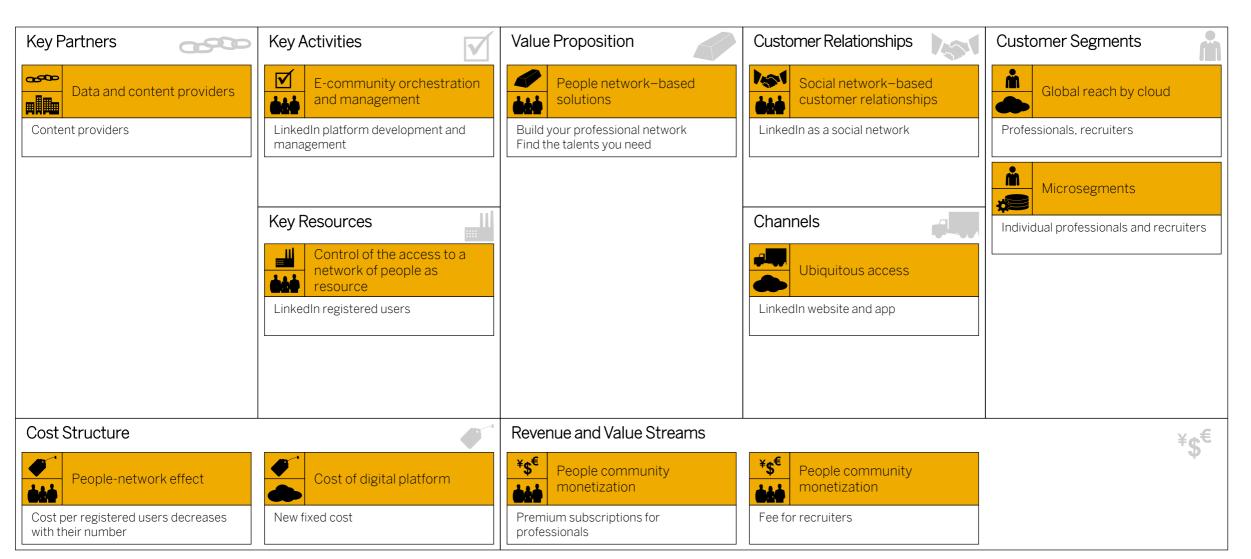
Example 1: amazon Key Features





Example 2: LinkedIn Key Features





Example 3: Airbnb Key Features



Key Partners	Key Activities	Value Proposition	Customer Relationships	Customer Segments
Crowd partners	E-community orchestration and management	On-demand services	Social network–based customer relationships	Global reach by cloud
Airbnb hosts	Design, implementation, and management of Airbnb Web site	Easy renting	Airbnb accounts can be connected to Facebook, increasing trust	Any travelers and hosts accessing Airbnb Web site
	Key Resources	People network-based solutions By digitally connecting individuals (hosts and travelers) via the Airbnb website, supply and demand can be easily matched. Image: A strain of the evice system for hosts and travelers, including social profile checks.	Business network-based customer relationships Airbnb bundles a number of services (e.g., insurance), but the customer only deals with Airbnb. Channels Ubiquitous access Airbnb Web site	
Cost Structure		Revenue and Value Streams	¥ s €	
People-network effect	Cost of digital platform	¥\$[€]Ubiquitous servicemonetization	¥\$[€]Business networkmonetization	Ψ
Cost per host or traveler decreases with their number	Cost of Airbnb Web site	Percentage fee from travelers	Percentage fee from hosts	

Business Model Design and Innovation (BMDI) Doll, J., Eisert, U.: p. 7 – 15

- 1. From Baseline ...
- 2. ... to 4 types of iteration ...
 - I. Analyze & Improve
 - II. Challenge & Change
 - III. Test & Verify
 - IV. Evaluate & Decide
- 3. ... to an appropriate, validated business model
- 4. Case study Helix Nebula

Business
(Viability)
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(Desirability) (Feasibility)



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Literature

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- 2. Doll, J., Eisert, U.: Business Model Development and Innovation: in: 360° The Business Transformation Journal, Issue 11, 2015, p. 7 15.
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- 4. Kowalkiewicz, M. et al.: The Business Consequences of a Digitally Transformed Economy, in: Oswald, G., Kleinemeier, M.: Shaping the Digital Enterprise, Springer 2016, p. 29 67.
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Shaping the Digital Enterprise

Trends and Use Cases in Digital Innovation and Transformation

D Springer

Thank you.

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