OPEN INNOVATION FROM AN ORGANISATIONAL PERSPECTIVE

Open labs and other creative spaces

Prof. Dr. Dr. Thomas Schildhauer

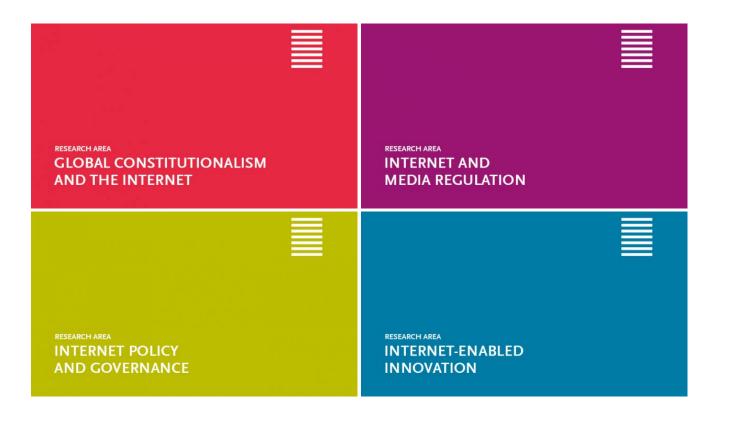
Professor for Electronic Business, University of Arts, Berlin Director, Alexander von Humboldt Institute for Internet and Society schildhauer@hiig.de

ALEXANDER VON HUMBOLDT INSTITUTE FOR INTERNET AND SOCIETY

- Encourage the dialogue between different research areas and disciplines, politics, and society.
- Contributing to a better understanding of the interdependence between society and Internet.



THE INSTITUTE – OUR RESEARCH AREAS



THE INSTITUTE – OUR RESEARCH PROJECT

INNOVATION AND ENTREPRENEURSHIP

STARTUP CLINICS

CLINIC SESSIONS | EXPERT SESSIONS | WORKSHOPS | ROUNDTABLES

STARTUP KNOWLEDGE HUB

ONLINE EDUCATION | KNOWLEDGE BASE | YOUTUBE CHANNEL

STARTUP NETWORK

STARTUP CLINICS TALKS | NATIONAL AND INTERNATIONAL CONFERENCES/EVENTS

RESEARCH

SUPPORTING AND HINDERING FACTORS OF INTERNET-ENABLED ENTREPRENEURSHIP | COLLABORATION WITH STARTUPS | NATIONAL INNOVATION SYSTEMS

EAM INNOVATION 8	216 start-ups & 358 Clinic Sessions			
Business Model Innovation Diskussion Geschäftsmodellelemente (Kunden, Revenue Model, Value Chain)	Finance initiale Finanzierung, Finanzplanung, Finanz- und Finanzierungsstrukturen	131 >	<mark>c</mark> Law	
HR & Culture Rekrutierung, Onboarding, Personaleinsatz und -entwicklung	Law rechtliche Geschäftsmodellanalysen (bspw. Urheber- und Datenschutzrecht)	61 x	Finance Business Model Sales & Marketing	
Lean Project Management Priorisierung von Aufgaben und Allokation von Ressourcen	Sales & Marketing Findung und Optimierung von Marketing- und Vertriebsstrategien	26 x	HR & Culture Lean Project Management	

MOST COMMON BARRIERS TO INNOVATION IN GERMANY

65% – defense of existing structures prevents change

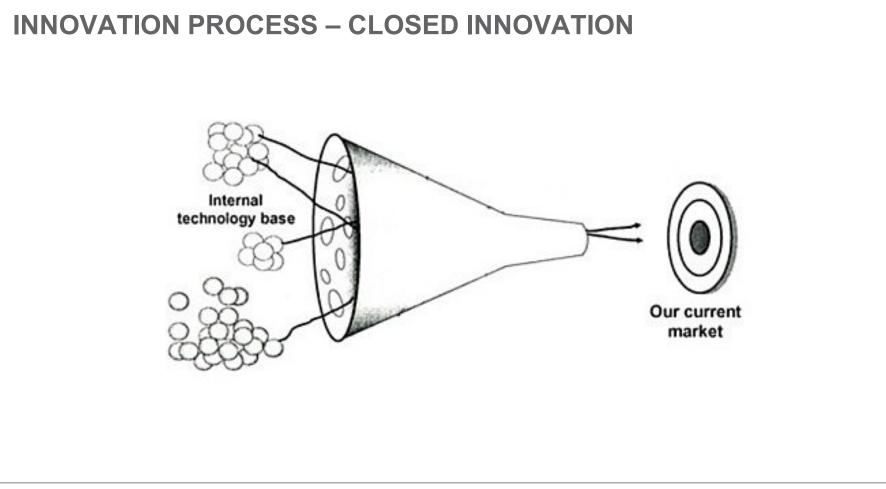
54% – lack of time

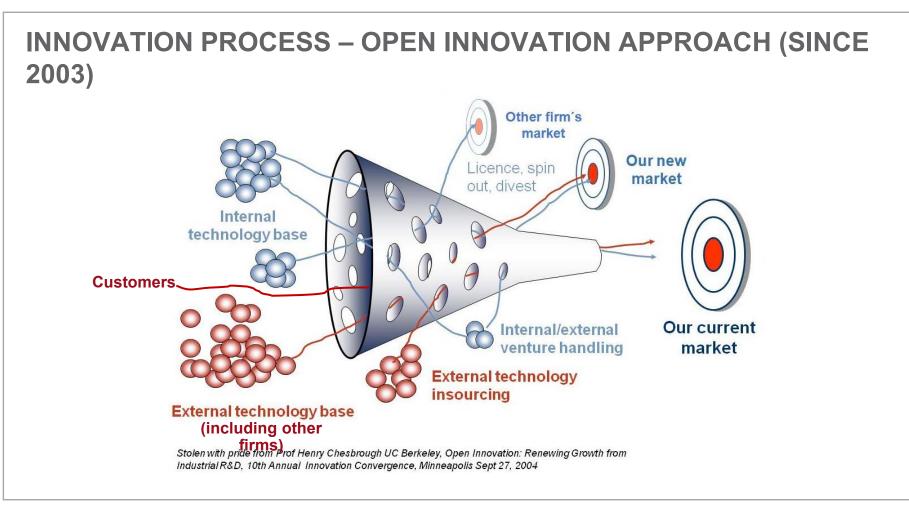
52% – lack of experience with user-centered approach

42% – bogged down in the department

40% – executives avoid radical decisions

Source: etventure / GfK, 2016



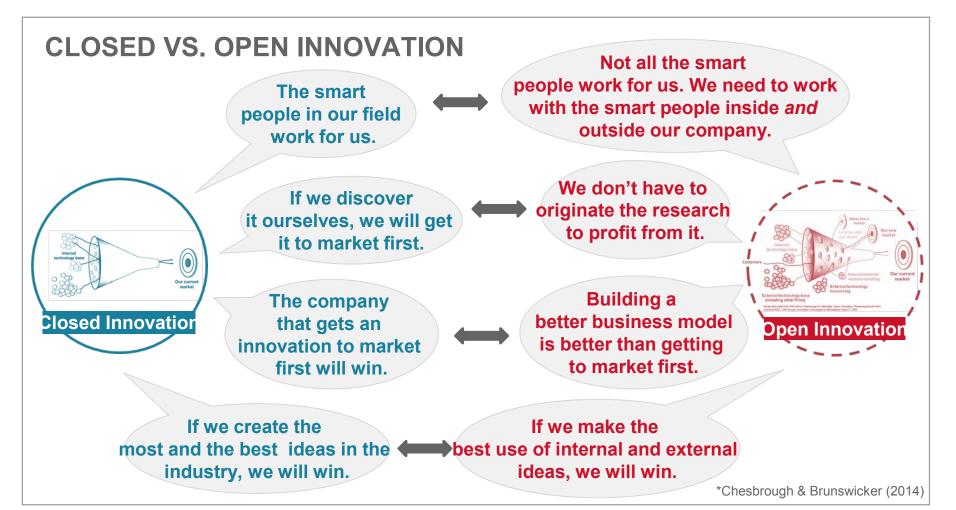


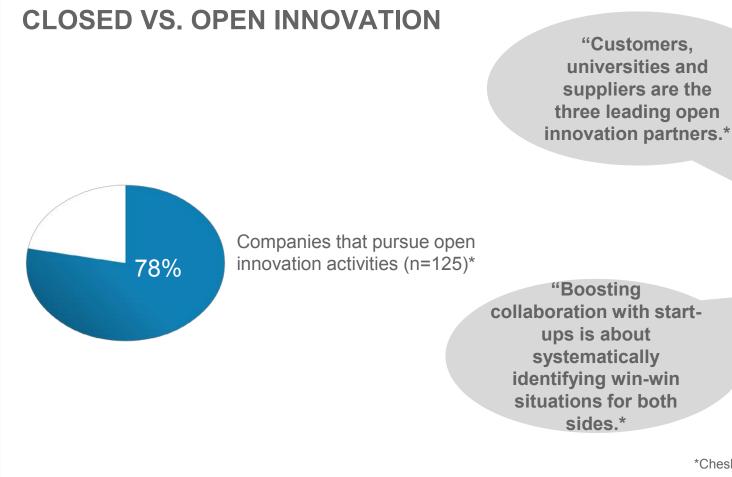
OPEN INNOVATION READINESS

The "100%Open Innovation Toolkit"

• Forty underlying themes used to assess Open Innovation Readiness

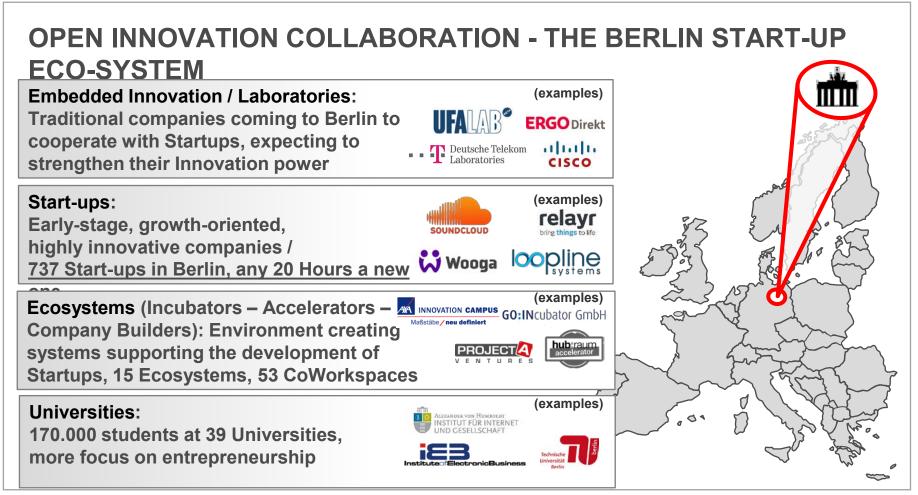




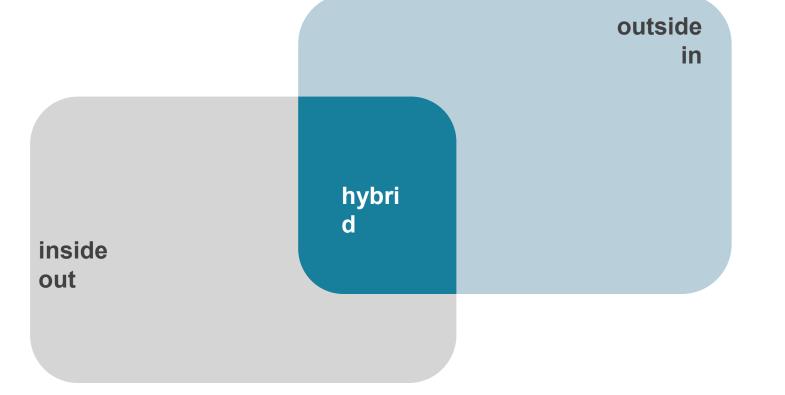


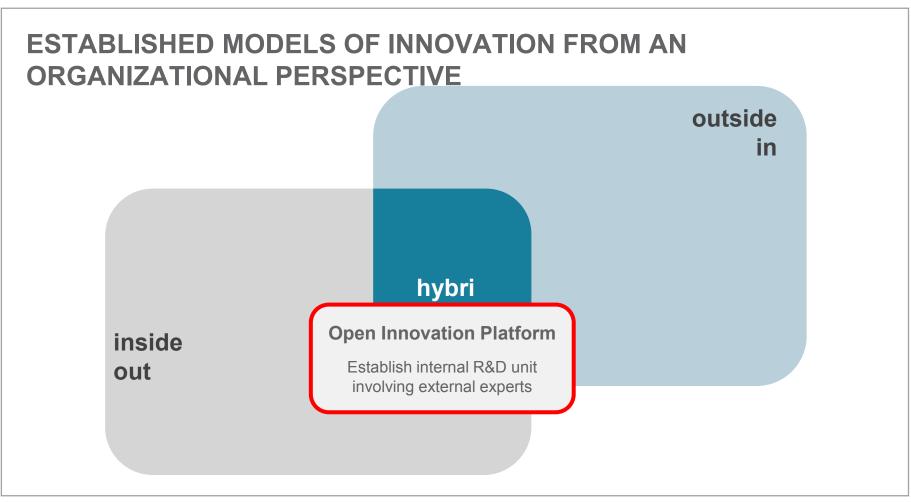
Jim Andrew Chief Innovation Officer, Philips

*Chesbrough & Brunswicker (2014)









OPEN INNOVATION AND CROWDSOURCING PLATFORMS

INNOC	ENTIVE [*]			1-855-	CROWDNOW · C	Contact Us → Blog Regis	ter • Login
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InnoCentive@Work

- Build a Culture of Innovation
- Collaborate Internally
- Share Knowledge & Solve Challenges
- SaaS Innovation Management Software





Open Innovation platform Innocentive.com

350.000+ "problem solvers" – experts from a variety of different disciplines and 200 countries

More than 1.600 contests, solving rate: 85%, winners are paid from 5.000 \$ to 1Mill. \$ Users: Toyota, Procter & Gamble, Boeing, BASF, Novartis, Nestlé, etc.

OPEN INNOVATION AND CROWDSOURCING PLATFORMS



"Remember outsourcing? Sending jobs to India and China is so 2003. The new pool of cheap labor: everyday people using their spare cycles to create content, solve problems."

Jeff Howe, Wired Magazine, June 2006

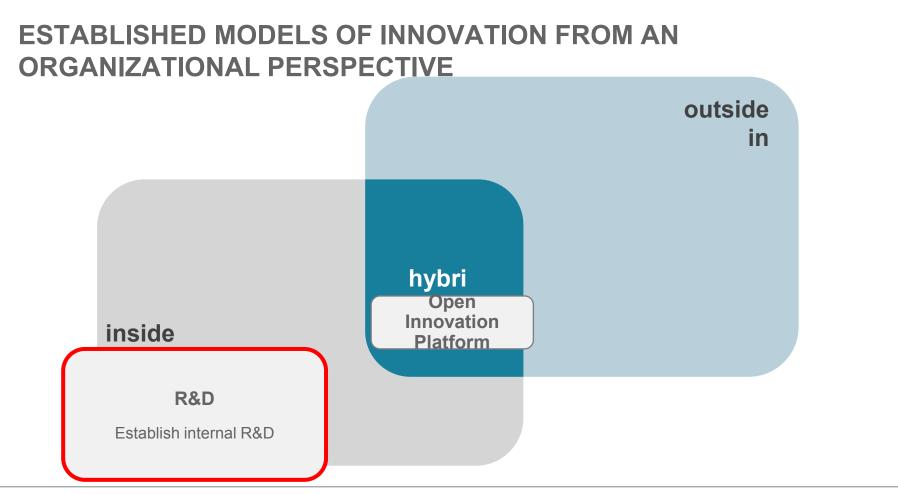
creative ideas and bids Jovoto community: 70,000 members, largest independent "creative department" in Germany

Example: Starbucks

OPEN INNOVATION PLATFORM

- Allows organizations to solicit the wisdom of the crowd
- Connects a large number of people who share a common goal
- Combines marketing, with the generation of ideas, and research

- Lack of confidentiality, details about problem, technology or ideas must keep hidden
- Communication with many people is difficult, wrong assumptions about the problem are possible
- IP rights unclear esp. Technological ideas



RESEARCH & DEVELEOPMENT (INTERNAL)



Apple

'Apple represents the "auteur model of innovation," [] there is a tight connection between the personality of the project leader and what is created.' – John Kao, innovation consultant

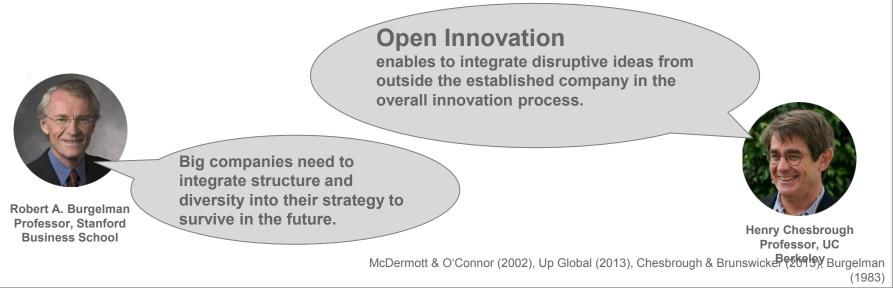
'[T]he tight hold that is placed on knowledge and information' – Tasra Mar, former employee

Yet Apple *does* co-operate with a number of outside companies; 100.000s of apps are not programmed by Apple.

Still, Apple experts controls over all content and apps on its platformsource: NYtimes.com, xconomy.com

INNOVATION IN ESTABLISHED CORPORATES

- Continuous and radical innovation are the right way for a long-lasting survival of established ventures
- Radical innovation is hard to implement in established ventures; focus on rapid success, risk averse behaviours

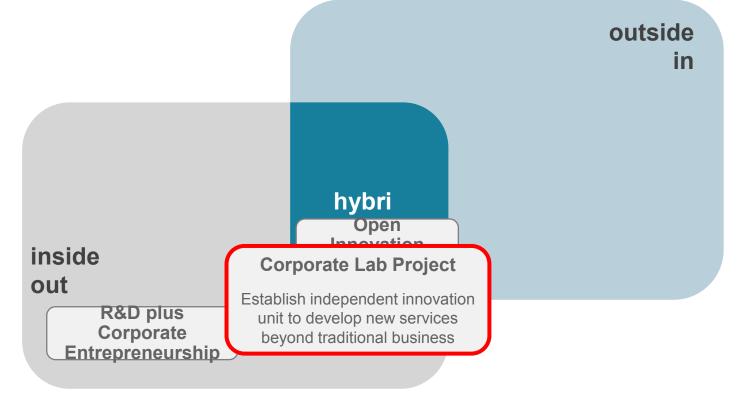


RESEARCH & DEVELEOPMENT (INTERNAL)

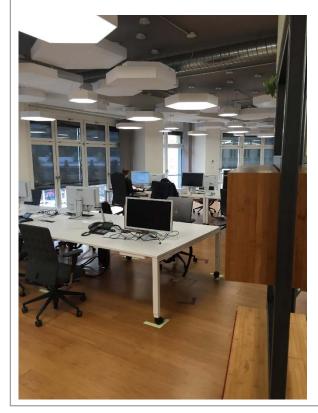
- Unique products
- Competitive advantages
- Long term income
- Ongoing research leads to new opportunities
- Enhanced reputation

- Long timescales for innovation
 processes
- Uncertain outcomes
- Difficult to anticipate how conditions will change during a long innovation process

ESTABLISHED MODELS OF INNOVATION FROM AN ORGANIZATIONAL PERSPECTIVE



CORPORATE LAB PROJECT





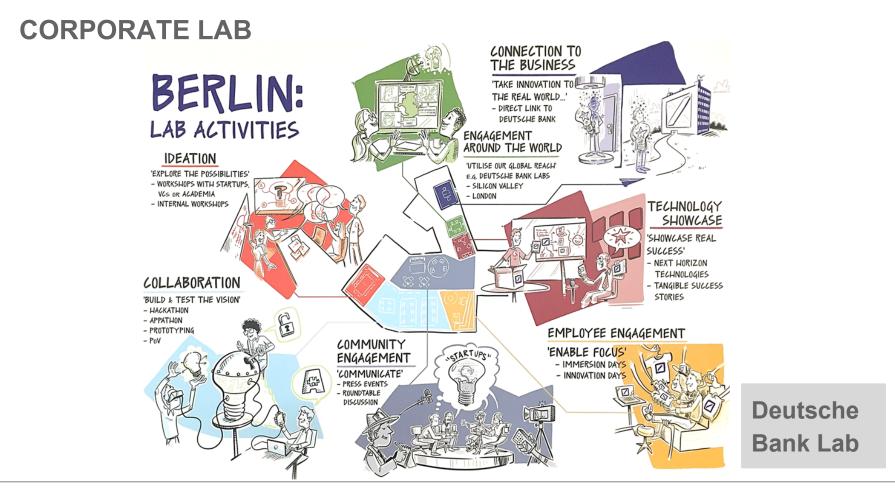


Embedded innovation

Established ventures innovate within their company

 Corporate Labs (e.g. Deutsche Bank Lab)

Spin-offs (e.g. SI-LABS, spin-off of v



CORPORATE LAB





- Co-working space to enable cross-industry exchange
- Private working rooms for concentrated, confidential working
- Community areas for inspirational networking
- Event space for speeches, workshop and curated program

Visa Europe Collab

Visa Europe Collab works with an international community of banks, startups and innovators to cocreate new products and services for the financial industry and its customers.

Visa Collab operates in London, Tel Aviv und Berlin.

CORPORATE LAB





Henke



German Tech Entrepreneurship Center

GTEC is Germany's first open campus to unite technology entrepreneurship organisations, resources and expertise in one

place.

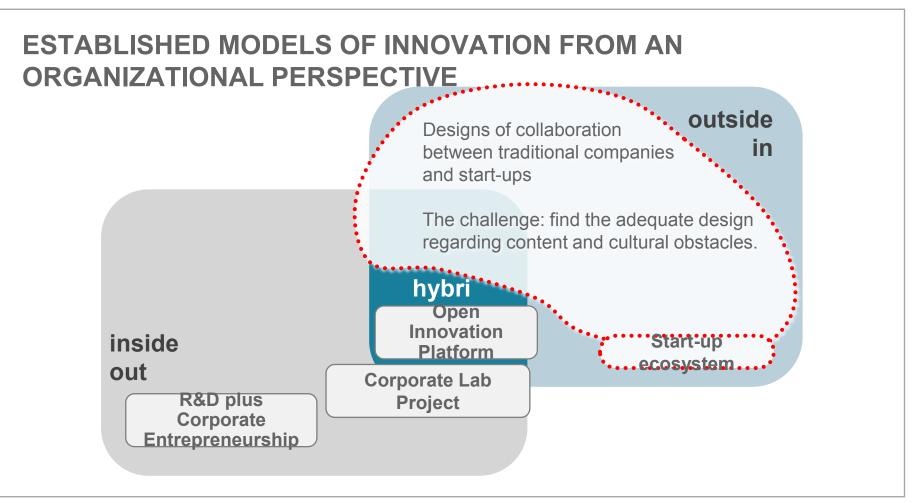
CORPORATE LAB PROJECT

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- Managers and experienced workers support innovation as mentors
- Teams benefit from experienced mentors and can save a lot of time

• People who understand innovative processes are often difficult to find and differ from the existing workforce

- Often no clear structure, but structure is important to enable creativity
- Experimentation in the company is difficult to realize
- Selection processes are difficult because team must fit the organizational objectives

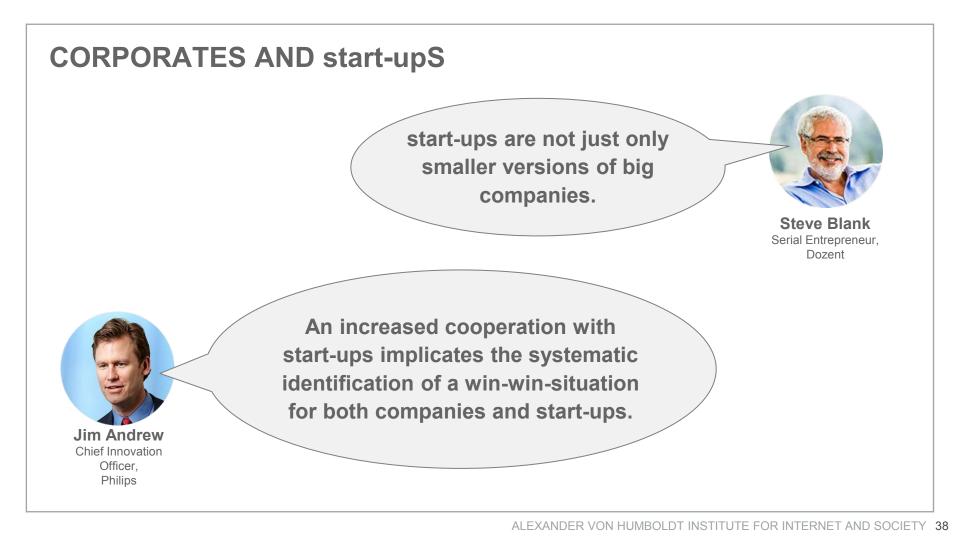


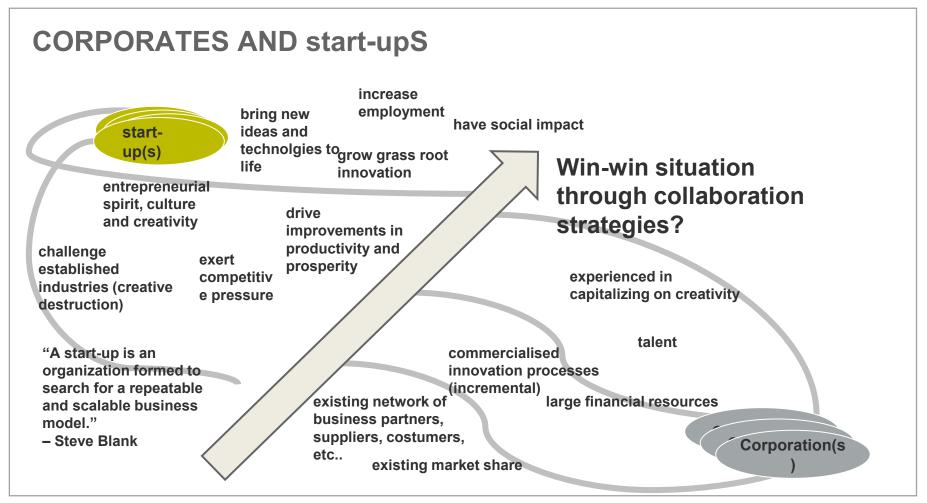
WHY DO CORPORATES COLLABORATE WITH START-UPS?

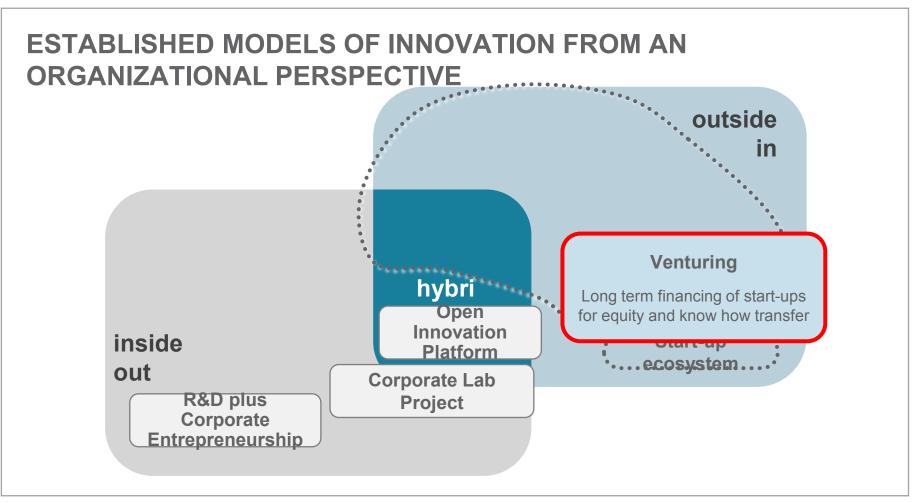
They hope for

87% – access to new technologies
85% – faster and more innovations
81% – learn from start-up methods
71% – faster implementation of pilots / proof of concept solutions
64% – improved products

Source: etventure / GfK, 2016



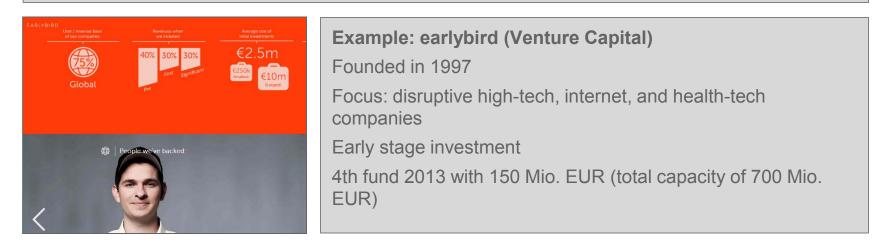




VENTURING

Investors, Venture Capital, Business Angels

- Acquisition and strategic investment in order to expand the portfolio; goal: exit
- Period: Depending on financing rounds (seed, early stage, later stage)
- Service: Financing with know how ("smart capital")
- Return service: Company shares, voice (business model development)



VENTURING

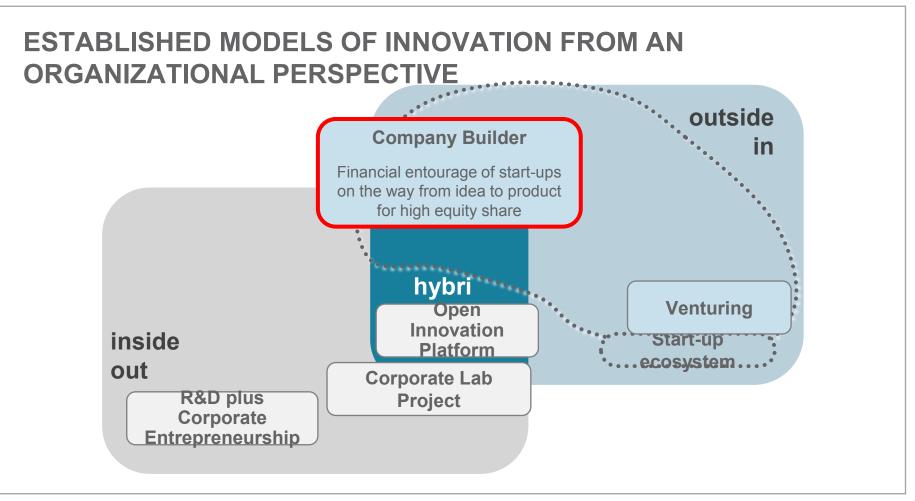
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- Window on new technologies
 and new markets
- Only financial focus

 Managers often don't understand start-up processes

 Risk because team and organization cannot work closely together over longer time period

 integration is difficult

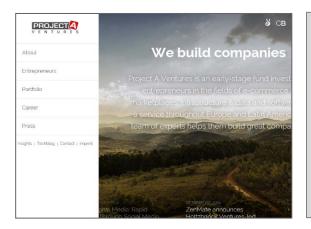


COMPANY BUILDER

Corporate Company Builder

Company Builder for start-up ideas and start-up founders. Support with office space, networks, capital, and know how.

- Period: Longterm from idea to exit
- Service: financing, mentoring, infrastructure
- Return service: Higher company shares



Beispiel: Project A

Founded in 2012 (incubator/ company builder)

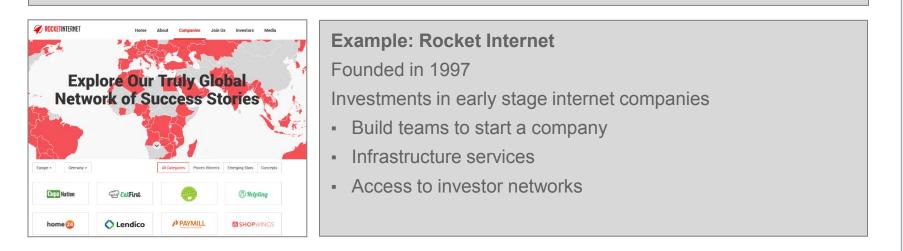
- Otto Group is one of the first investors, Axel Springer has also shares
- 100 experts in the team
- Built up around 25 companies in 30 countries

COMPANY BUILDER

Company Builder

Fast company setup – from idea to launch

- Period: Longterm from idea to exit
- Service: Financing, mentoring, recruiting team members (especially management)
- Return service: Higher company shares, high voice regarding business model

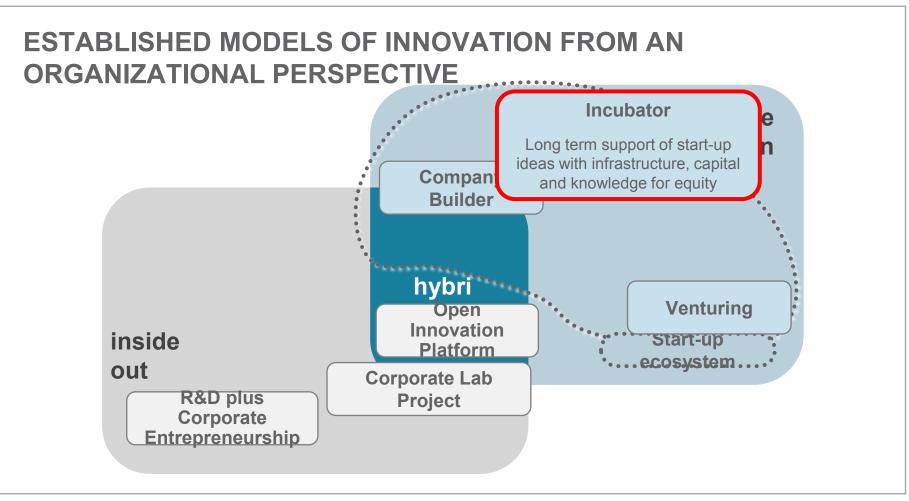


COMPANY BUILDER

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- Focus on scaling, less risky than other collaboration instruments
- Structures to build businesses already exist leads to faster development of businesses
- Experienced founders

- Often copy cats and no real innovation
- No unique products to stay competitive in the long run
- Less individual and team motivation because founders do not work on their own business ideas



INCUBATOR

Business Incubators

- Dedicated to start-up and early-stage companies
- Offer support in form of consulting, mentoring, prototype creation, management training or office space and other services



Example: start-up Incubator (TU Berlin)

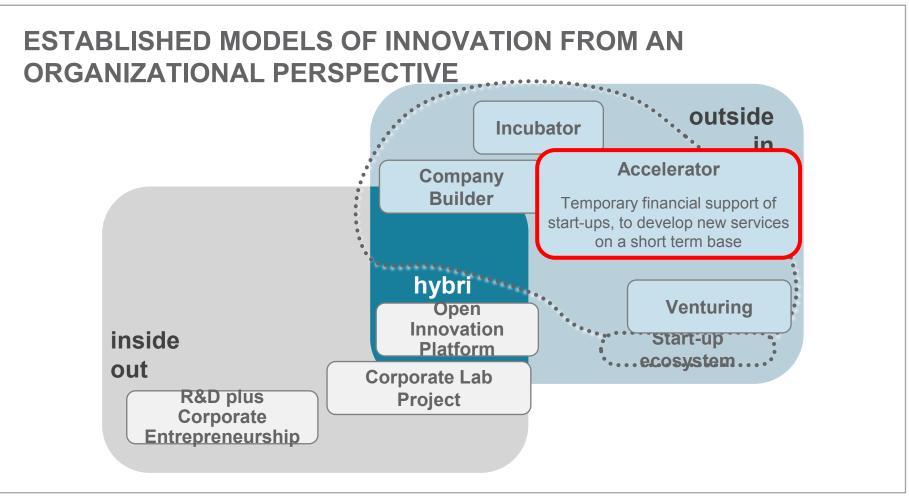
- Centre for Entrepreneurship founded in 2010
- Office space for 12 months (free of charge)
- Prototype workshop
- Co-Working Space
- >70 TU professors and >1000 external experts support the entrepreneurial spirit, partly as mentors for start-ups

INCUBATOR

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- Coworking is important part of incubator and enables learning from each other
- Interesting possibility for startups who cannot afford an own office

- Often to slow and more focused on companies earlier in the founding process
- Often gap of investement after pre seed phase
- Scaling not focus



ACCELERATOR

Accelerators

Midterm support to achieve success as soon as possible (market-ready product)

- Period: Short-/ midterm (three months)
- Service: Financing, mentoring, infrastructure
- Return service: Small amount of company shares



Example: Axel Springer Plug and Play

Three times a year, we run a three month-long program in which we provide start-ups with office space in the heart of Berlin, coaching, workshops, networking, 25.000 euros, events and more. The program ends with the Demo Day, where start-ups will have the opportunity to pitch in front of an elite audience of local and international venture capital firms for additional seed and Series A funding_{ource: www.axelspringerplugandplay.com}

ACCELERATOR



Example: AtomLeap

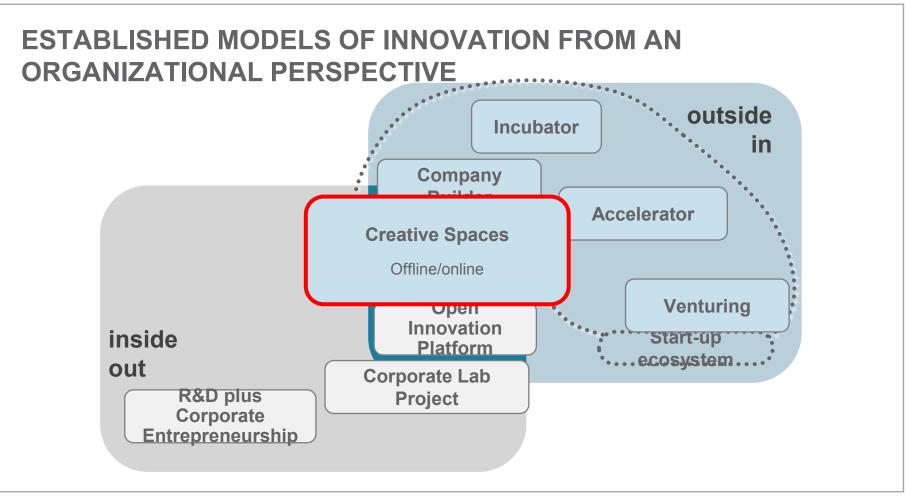
- AtomLeap is an accelerator focused on hardware and hightech start-ups.
- Besides hackathons AtomLeap developed the two month program called Collider Camp to accelerate the product, team, and business development of hardware start-ups.
- The key feature of the approach is that AtomLeap connects high tech start-ups with established players from their respective industries, in order support the joint development of products.
- Learnings of batch #1: Selection process is key (e.g. via bootcamps or hackathons); not only evaluate each team progress, but each team members competencies; include individual mentoring sessions on demand; create a fixed location and motivating atmosphere to foster communication within the participants

ACCELERATOR

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- Strict application process ensures quality of team and idea
- Set timeframe to speed up innovation process
- Very selective and therefore ensures success for organizations
- Large network of mentors/ investors; individual mentoring
- Limit distraction of coworking spaces

- Competitive and hard for the start-up team
- Too many programs developed in the last years and investors have grown weary of demo days
- Over fished pond, not enough good start-ups
- Sell start-ups aggressively to promote their own activities
- Frustration for Start-ups which are dropped out



CREATIVE SPACES



In a two-days hacking marathon AtomLeap, IBM, and Garmin bring together passionate developers and ingenious makers, giving them a space to find solutions for the challenges of the Smart Cities of tomorrow using wearable technology.





former Berlin wall offer 16.000 m² The Factory is a campus for startups in the center of Berlin office and leisure space, designed Mitte, at the heart of a growing to create an outstanding work environment. The New Hork Eimes Forbes THE WALL STREET JOU BBC ALEXANDER VON HUMBOLDT INSTITUTE FOR INTERNET AND SOCIETY 56

CREATIVE SPACES

Factory

Crunch

Distillerv

Law, Tax, Design & Pitch Clinics 1 000 m² Incubation / Acceleration



Google for Entrepreneurs

Facilities 250 person Auditorium

Fitness Area

Space 11,500 m² built to spec tech offices 400 person Event Space 1,000 m² co-working space Restaurant, Deli & Coffee

Six buildings on the site of the

Factory Berlin

SOUNDCLOUD

Since 2011 the Factory – a community of entrepreneurs provides a space and support for start-ups to start or grow their businesses and accelerate the Berlin ecosystem.

Google for Entrepreneurs relayr

bring things to life

INSTITUTE FOR INTERNET

Alexander von Humboldt

AND SOCIETY

https://vimeo.com/145249643

CREATIVE SPACES





FABLAB.BERLIN

Open Innovation Space Berlin

The Open Innovation Space is an interface between innovative thinkers from around the world and Ottobock design engineers. Initiated by Ottobock and operated by Fab Lab Berlin, it offers an infrastructure for

renterprises, services and research.

CREATIVE SPACES

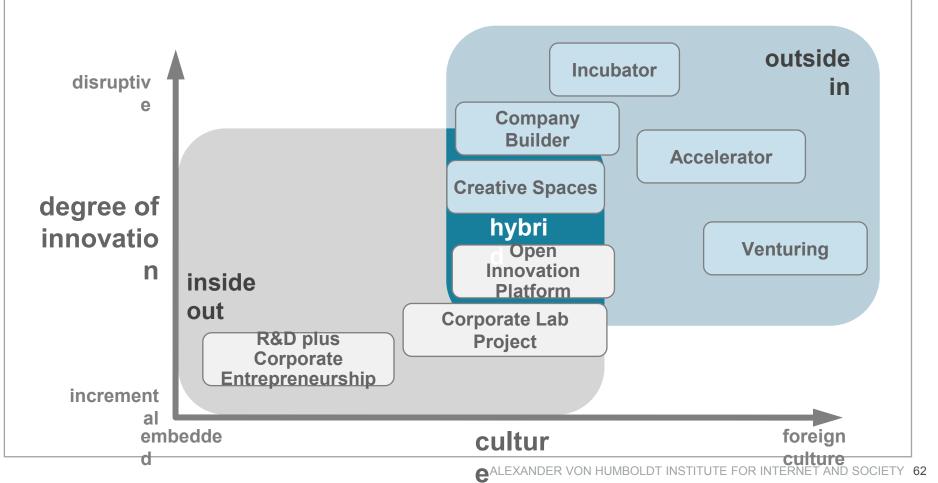
Connects people locally

- Enhances reputation of a city and/ or region
- Builds creative community
- Connects very different people at one place to generate true innovation
- Build social capital
- Office space on demand

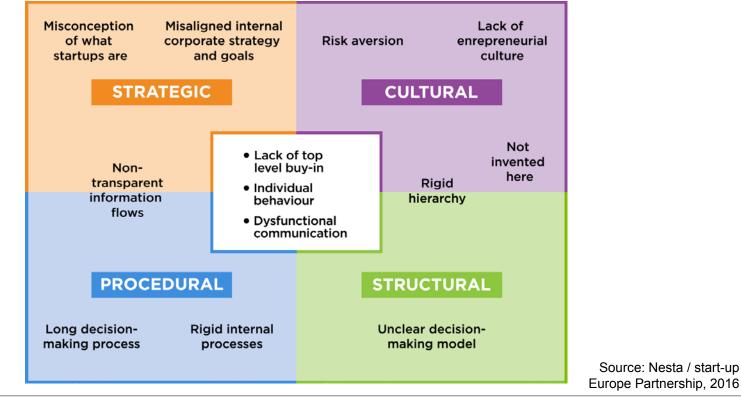
- Do not always deliver valuable supplies
- New hype
- Expensive infrastructure, real estate business orientation

ESTABLISHED MODELS OF INNOVATION FROM AN

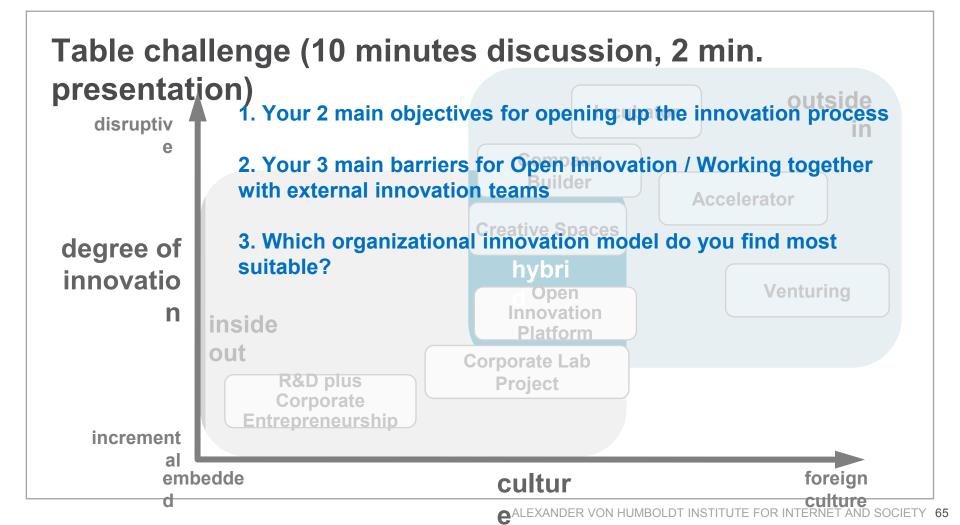
ORGANIZATIONAL PERSPECTIVE



INNOVATION FROM AN ORGANIZATIONAL PERSPECTIVE: COMMON INTERNAL BARRIERS TO COLLABORATION







CONTACT Prof. Dr. Dr. Thomas Schildhauer

schildhauer@hiig.de

Professor for Electronic Business/Marketing, Berlin University of the Arts

Director, Alexander von Humboldt Institute for Internet and Society

Director, Institute of Electronic Business e.V. – Affiliate Institute of Berlin University of the Arts

Director, UdK Berlin Career College

Scientific Director, Vorn Strategy Consulting GmbH

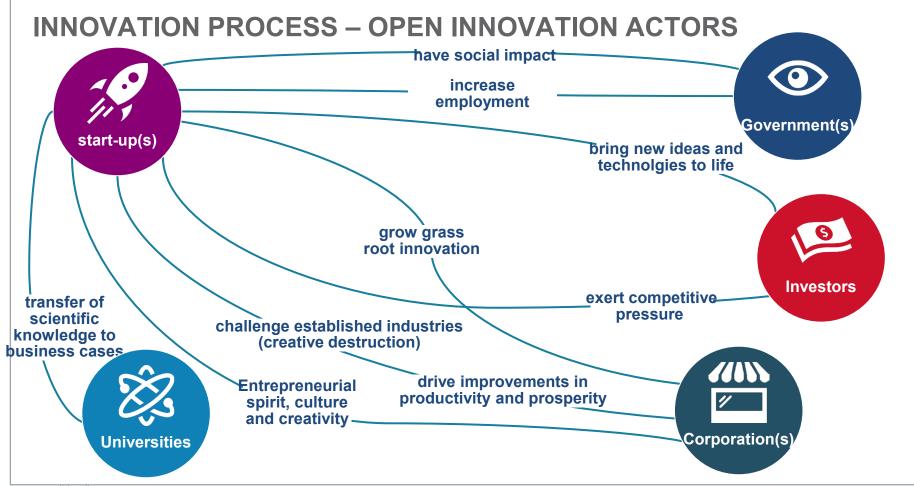


Prof. Dr. Dr. Thomas Schildhauer

Professor for Electronic Business, University of Arts, Berlin Director, Alexander von Humboldt Institute for Internet and Society schildhauer@hiig.de

BACKUP

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