#### A CTI training programme



#### **Start-up and entrepreneurship** CTI Entrepreneurship



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**Commission for Technology and Innovation CTI** 

# **CTI Entrepreneurship**

Business Conception Week 1: Idea

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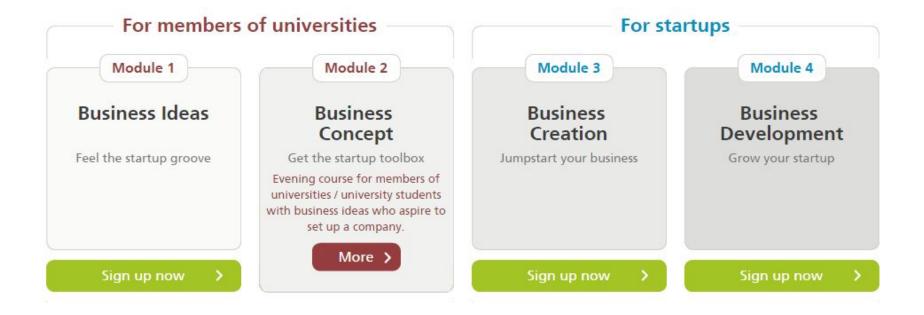
# **Trainer Biography**

[Insert Trainer Biography]

#### Welcome

# CTI Entrepreneurship – the Swiss federal training programme for startup founders.

We support the next generation of scientists and entrepreneurs in developing their business ideas, setting up their company and implementing a strategy for growth. You can choose from four specific training courses, all run and led by experienced entrepreneurs. They are aimed at the founders of young knowledge-based companies and at members of universities with innovative visions.



#### Learning goals of the Business Concept course

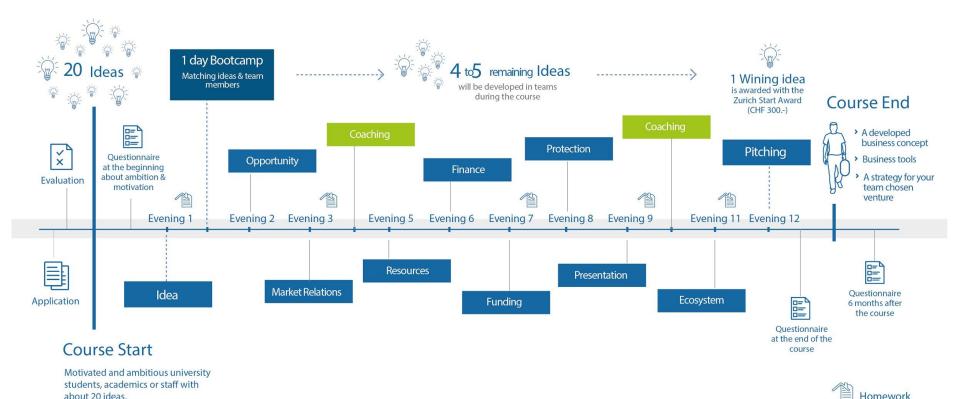
- 1. Acquire **subject-specific skills** that are critical to a startup's success
- 2. Become familiar with the major **challenges** of a startup company
- Understand what characterizes an entrepreneur and the risks and benefits of entrepreneurship
- 4. Apply **best practice** from concrete examples
- 5. Meaningful group **discussion and evaluation** of participants' projects
- 6. Successful application of tools and skills learnt.

# Module 2 - Business Concept

#### **CTI** Entrepreneurship Training

Course Schedule

about 20 ideas.



#### **Course Structure**

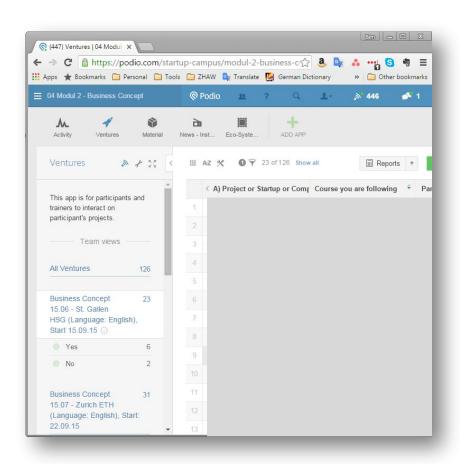
Week / Time	Hour 1	Hour 2		Hour 3		Но	ur 4	Deliverables
1 Idea	•	Entrepreneurial Acting and Thinking	Get to Kno	ow Each Other	Elevato	Pitch Training,	Wrap-Up	Elevator Pitch
1 Bootcamp	STARTUP CAMPUS Bootcamp							Ideas & Teams Chosen
2 Opportunity	From Idea to Opportunity	Work on Business Value Concept		Proposition lopment	Grou Wra	p Presentation	s, Discussion,	Business Value Concept, Value Proposition
3 Market Relations	Understanding your market	arket Positioning	Value C Strategy	hain Analysis & Marke	t Entry	Update Busin Concept, Wra		Customer Segment, Positioning Map, Value Chain, Entry Strategy
4 Coaching (I)	Individual Coaching Sessions in Teams: Status Quo, Q&A, Roadmap					Review of Progress		
5 Resources	Managing Yourselves Human Resources and		ills Matrix Founding Your Busines		ess	Roadmap, Wrap-Up		Motivation & Expectation, Skill Matrix, Roadmap
6 Finance	Financial Forecasting Sales and Costs Planning			Income Statement	Free Cash Flow / Liquidity / Break Even, Wrap-Up			Definition of Key Financial Forecasts and Statements
7 Funding	Introduction to funding Types and Sources of Fundin How to Secure Investment		ing and	g and Funding Strategy and Funding		g Battleplan, Wrap-Up		Funding strategy and battleplan
8 Protection	Introduction to IP Protect	Identifying IP Needs	IP Strate Manage	0,	Checking C reedom	perating	Discussion and Wrap-Up	IP Canvas
9 Presentation	Introduction & review of online training  Standing in the shoes of your audience pite			•		pping a your final pitch, Wrap-Up		A Start-Up Pitch (presentation)
10 Coaching (II)	Individual Coaching Sessions in Teams: Status Quo, Q&A, Roadmap					Review of Progress		
11 Ecosystem	STARTUP CAMPUS CONNECT EVENT						Contacts to Ecosystem	
12 Pitching	Final Pitches & Jury Feed	edback				Cours	se Evaluation &	Jury Feedback and Certificates

## Before we start Workspace Platform: Podio

#### Use Podio to:

- Collaborate on your project with your teammates
- Ask questions, comment and interact with trainers and fellow participants

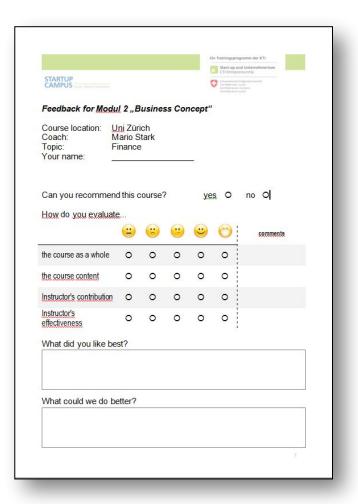
You will get access to the workspace after today



# Before we start Feedback

**Every week** you will receive an email from us asking you to complete a **short questionnaire** (just 4 questions)

Please help us to improve the course for future participants by taking 2-3 minutes to complete the questionnaire



# Before we start CTI survey

#### Why?

Optimization: CTI wants to constantly improve the startup support. Reporting to Federal Authorities: You take part in a course which is financed by public funds.

#### You will receive three questionnaires:

- at the beginning of the course
- at the end of the course
- six months after the course

#### Full confidentiality is assured

Please answer all three questionnaires – it will take approx. 5-10 minutes

# Before we start Confidentiality

- Sign the Non Disclosure Agreement (NDA)
- It will help to protect (in law) any confidential information (e.g. trade secrets, etc) that you disclose to the trainer or other participants
- It will prevent (in law) you from using or disclosing to third parties any confidential information that you receive
- Intellectual Property (IP) is covered in detail in Week 8

#### **Reality Check**

- Do not be too precious about ideas or too fearful of them being stolen; otherwise your idea will never come alive
- Strike a balance; you can usually describe everything you need to without disclosing any genuine IP or instructing others to reinvent
- Many investors and other stakeholders will be put off if you demand an NDA
- But, disclosure of genuine IP without a confidentiality agreement in place (e.g. NDA) may limit your ability to patent later

# Before we start Optional content

- Some of the slides in the PDFs have the "Optional Content" icon in the corner
- This icon indicates that the trainer may skip this content, depending on time constraints and how he/she decides to present the material on the day
- If you have any questions about this content or any other content, speak to your trainer in the break



#### Week 1: Ideas

WK	Topic	Trainer
1	Ideas	Lead Trainer
2	Opportunity	Lead Trainer
3	Market Relations	Lead Trainer
4	Coaching I	Lead Trainer
5	Resources	Lead Trainer
6	Finance	Lead Trainer
7	Funding	Lead Trainer
8	Protection	IP Trainers
9	Presentation	Lead Trainer
10	Coaching II	Lead Trainer
11	Ecosystem	TBC
12	Pitching	TBC



#### **Learning Goals**

The participants are able to:

- Understand the role of entrepreneurs
- 2. Understand the principles of entrepreneurship
- 3. Identify the essence of entrepreneurial spirit and how it applies to them
- 4. Understand the main steps of the startup process and give examples

#### **Deliverables**

- Everyone on the course knows each other
- 2. Elevator pitch for the Bootcamp

# Week 1: Ideas - Agenda

Part One	Welcome, Introduction
Part Two	Entrepreneurial Acting and Thinking
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# Entrepreneurial acting and thinking

- 1. What is Entrepreneurship?
- 2. What is an Entrepreneur?
- 3. Economic and Social Relevance of Entrepreneurship

# Terminology and conceptual meaning



#### Term Entrepreneurship

- Entrepreneurship derives from the 17<sup>th</sup> Century and French word "entreprendre" which means:
  - "to undertake something".
  - "to take matters in one's hand".
  - "risk a venture".
- Early entrepreneurs were also contractors who bore the risk of profit or loss: soldiers, adventurers, builders, merchants...

#### Entrepreneurship

- ... is a driving force for economic wealth and social progress.
- ... is a core element of the innovation capacity of a company.
- ... is driven by innovation, entrepreneurial opportunities and environmental factors.

Source: Referring to Fueglistaller, Müller & Volery (2008) and Kaplan & Warren (2010).

#### Definitions of entrepreneurship?

#### Input-oriented definition:

- "Pursuit of opportunity without regard to resources currently controlled" (Stevenson 1999)
- "Process of creating value by bringing together a unique package of resources to exploit an opportunity" (Morris 2005)

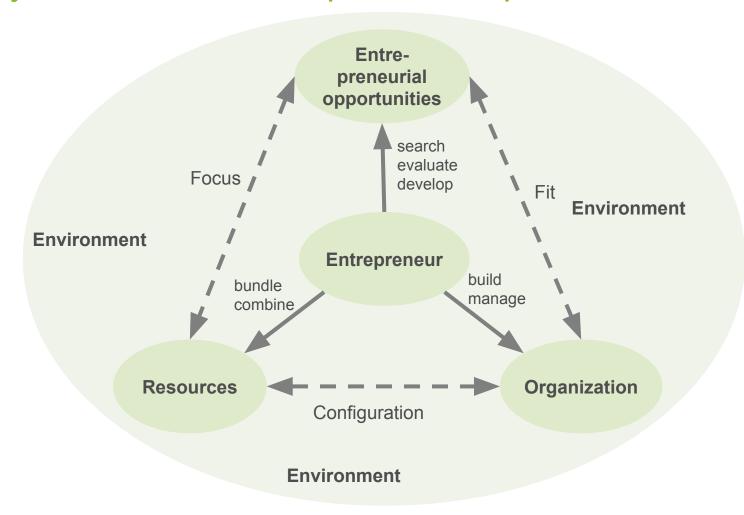
#### **Output-oriented definition:**

 "Process of creating something new with value and assuming the risks and rewards" (Hisrich 2007)

### What is entrepreneurship about?

UNCERTAINTY OPTIMISM AMBITION
COMMUNICATION YOU INSPIRATION
PEOPLE VISION CHANGE COMMITMENT
TIME LEARNING DOING DECISIONS
PASSION FAILURE LISTENING LUCK
TELESCOPE IDEA MEANING LEADERSHIP

#### Key elements of entrepreneurship



Source: Referring to Fueglistaller, Müller & Volery (2008). Entrepreneurship, p. 7.

#### What is entrepreneurship?

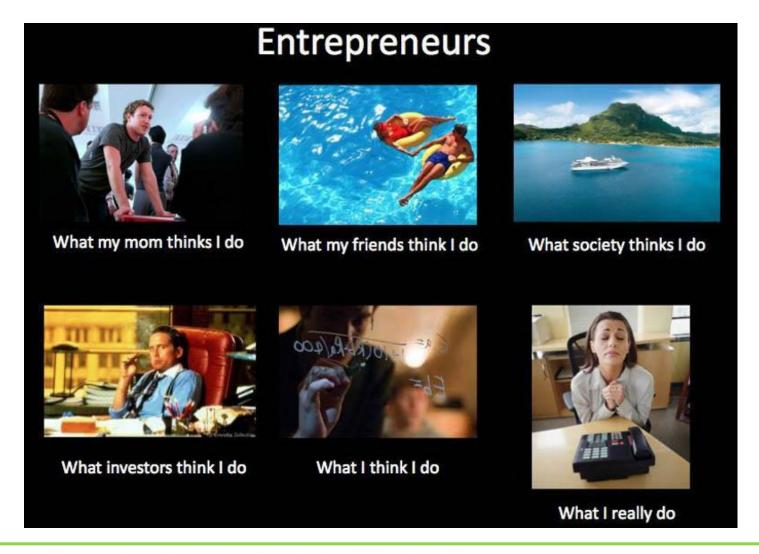


Andrew Zacharakis is professor of Entrepreneurship at Babson College. Source: <a href="https://www.youtube.com/watch?v=vgOpLzQ0QIE">https://www.youtube.com/watch?v=vgOpLzQ0QIE</a>

## Entrepreneurial acting and thinking

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### Societal Interpretation of Entrepreneurship

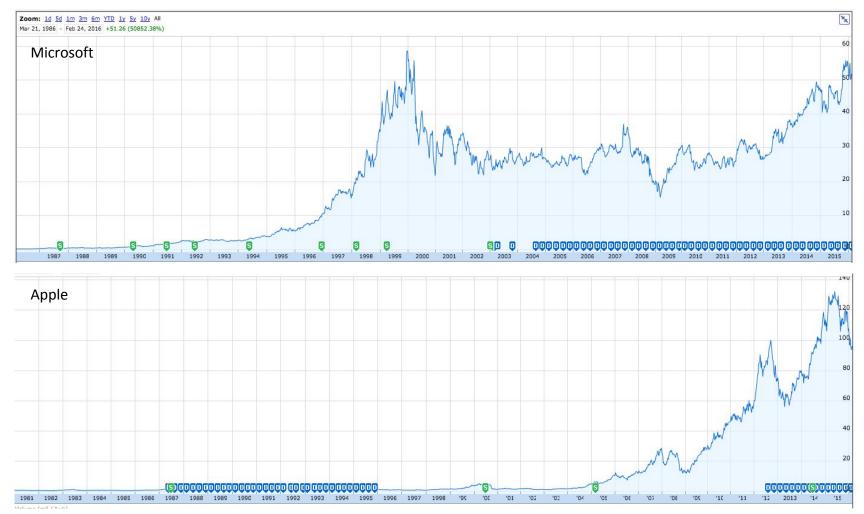


# Would you have invested?





### It would have paid off...



Source: Google Finance

### Are all Entrepreneurs born heroes?



Sir Richard Branson – Virgin Group



Nick Woodman - GoPro



#### Elon Musk – Tesla



Steve Jobs – Apple



### ... and they have changed the way we do things

1990s 2010s





Source: Left image - 123RF.com. Cited in Kleiner Perkins Caufield Buyers (KPCB) Internet Trends 2013.

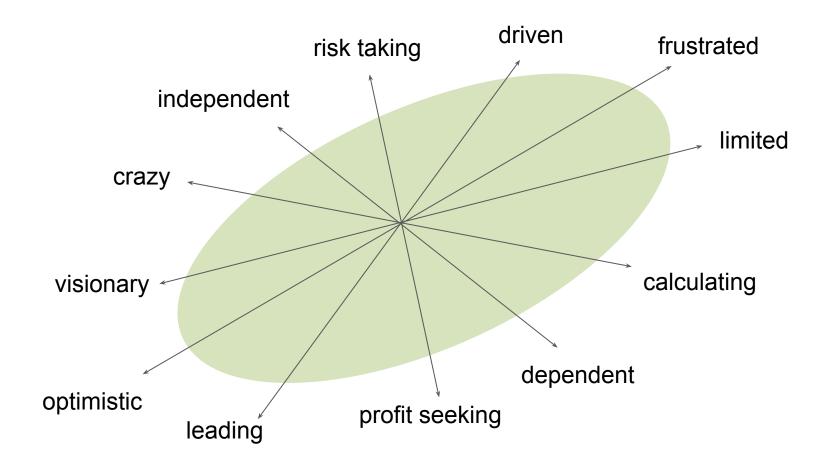
#### Characteristics of entrepreneurs

- Self-confidence
- Willingness to take risks
- Flexibility (open to change)
- Intellectual autonomy
- Energy and diligence
- Work ethics
- Creativity and imagination
- Achievement motivation and passion
- Internal locus of control
- Ability to deal with ambiguity and complexity

- Absorbing power for good ideas
- Dynamic leadership skills (self-starters)
- Initiative
- Inventiveness
- Communication skills
- Persistence
- Profit orientation
- Focus on execution
- Foresight, but works with urgency

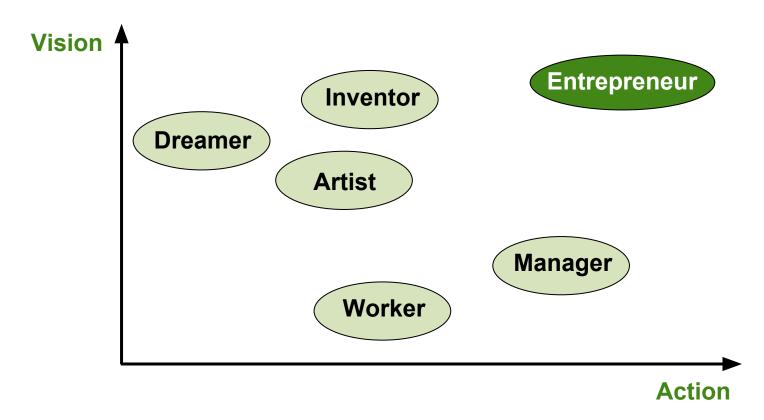
Source: Referring to Fueglistaller, Müller & Volery (2008). | Kaplan & Warren (2010). Patterns of Entrepreneurship Management.

## Entrepreneurs: living between driving poles



## The Entrepreneurial Grid

The entrepreneur ideally combines vision and action



Source: Amit (1999)

### Some Classifications of Entrepreneurs

#### **Opportunity vs.** Necessity

- Opportunity-based entrepreneurship: "take advantage of a business opportunity"
- Necessity-based entrepreneurship: "because you have no better choices for work"

#### **Business/Commercial vs. Social**

- Business /Commercial entrepreneurship
- Social entrepreneurship: "the activities and processes undertaken to discover, define, and exploit opportunities in order to create *social* wealth by creating new ventures or managing existing organizations in an innovative manner"

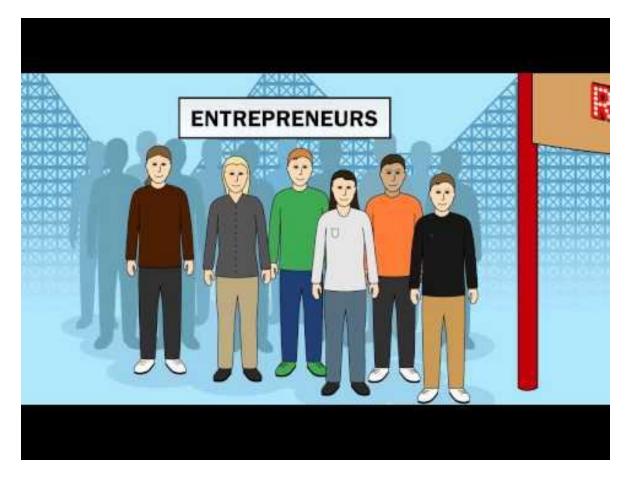
#### What is an entrepreneur?



Panelists from New York Entrepreneur Week (NYEW) reflect on what it means to be an entrepreneur.

Source: http://www.youtube.com/watch?v=IZKhZmvJuZY&feature=related

## The Entrepreneur Rollercoaster



One entrepreneur's take on what the entrepreneurial journey is like! Source: <a href="http://davidhauser.com/post/1174118860/ride-the-entrepreneur-rollercoaster">http://davidhauser.com/post/1174118860/ride-the-entrepreneur-rollercoaster</a>

## Entrepreneurial acting and thinking

- 1. What is Entrepreneurship?
- 2. What is an Entrepreneur?
- 3. Economic and Social Relevance of

### Economic relevance



#### **Innovation**

- → market demand
- → necessary for the foundation of a company, to survive and for growth
- → successful innovations as well as unsuccessful innovations



#### Growth

- → result of economic success
- → is an outgrowth of added value and social wealth



### **Employment**

- → result of newly founded and growing companies
- → flexible access to new jobs



### Renewal / modernization / reformation of the company population

→ preservation and boost of competition

Source: Referring to De (2005). Entrepreneurship, p. 23ff.

## Impact of new ventures (1/2)

### **Industry Level**

- More intense competition due to innovative ventures, thus re-defining industry structures and best-practices (e.g., amazon.com vs. established book-sellers)
- Provision of a more heterogeneous market offering
- Innovation: Small entrepreneurial firms are responsible for 67% of all innovation in the United States (GEM, 1999) and have been responsible for 95% of radical innovations since World War II (Timmons, 1999)

Source: Adopted from slides of Peter Vogel

## Impact of new ventures (2/2)

### **Society Level**

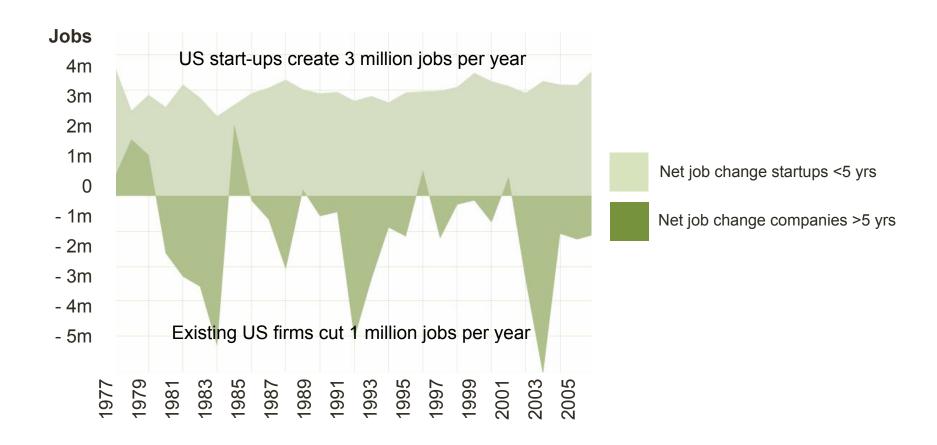
- make our lives easier
- improve our health
- provide entertainment (Barringer & Ireland, 2006)

### **Country Level**

- Increasing a country's international competitiveness by promoting technological change and increasing productivity
- Job creation: The average U.S. net employment growth rate from 1980 to 2005 would have been negative, if not for the jobs created by newly founded firms (Haltiwanger, Jarmin, & Miranda, 2009)

Source: Adopted from slides of Peter Vogel

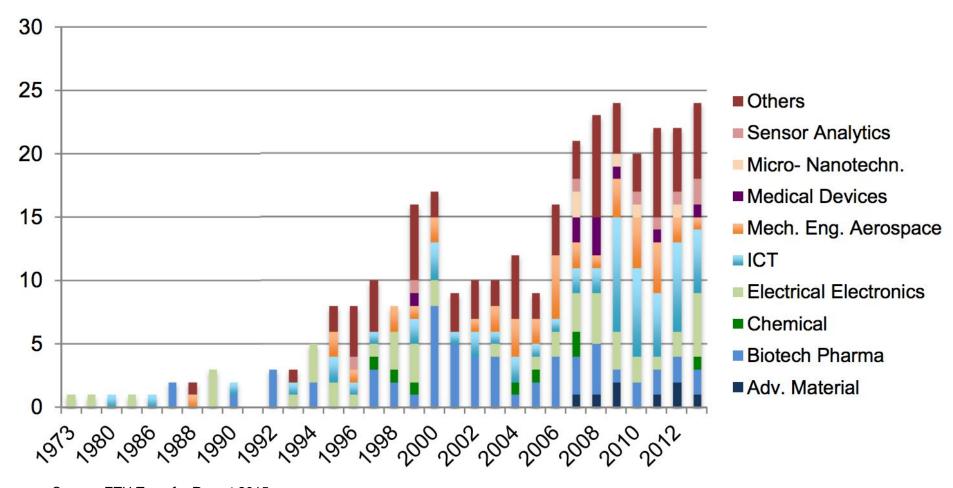
## Startups create jobs!



Source: Kauffman Foundation - www.kauffman.org (thanks to Nicolas Berg, Co-founder Redalpine Venture Partners, for image and reference)

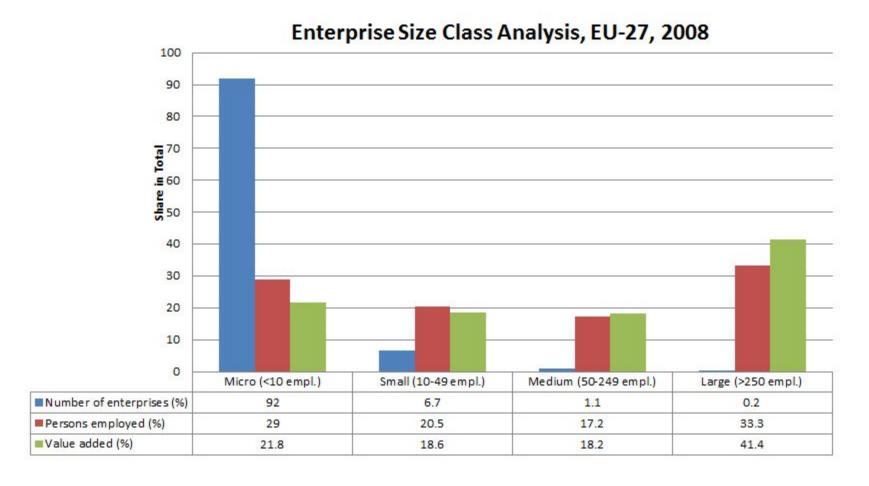


# Number of spin-offs is independent from economic sentiment (e.g. 2007 - 2011)



Source: ETH Transfer Report 2015

# Small companies form the backbone of economies



Source: Eurostat (2011)

## Economic impact in Switzerland

- In 2008, some 310,000 private enterprises were counted in Switzerland. That is 11,300 more than in 2005 and 3000 more than in 2001.
- More than 99% of enterprises in Switzerland are SMEs: small and medium-sized enterprises, i.e. enterprises with fewer than 250 employees (calculated as full-time equivalents)
- About 87% are micro-enterprises, i.e. with fewer than 10 employees.
- The distribution of enterprises by enterprise size has not changed between 2001 and 2008.
- The average size of SMEs has also remained largely stable: in 2008, it was 11 employees.
- Generally, SMEs stand for a stabilizing effect for the economy in times of economic downturns

#### Businesses - Indicators

#### Size

Private businesses and persons employed by size, 2008

Size	e Businesses		Employed persons	
by full-time equivalents	Number	%	Anzahl	%
SMB (up to 249)	311'707	99.6	2'327'802	66.6
Micro enterprise (up to 9)	272'346	87.1	869'206	24.9
Small business (10-49)	33'183	10.6	760'780	21.8
Medium business (50-249)	6'178	2.0	697'816	20.0
Large business (250 and over)	1'154	0.4	1'166'269	33.4
Total	312'861	100.0	3'494'071	100.0

Source: Business Census 2008

Data as of: 29.03.2010

Average number of persons employed per business (private businesses), 2008

Sector 2	14.6
Sector 3	10.1
Overall average	11.2

Source: Business Census 2008

Data as of: 29.03.2010

Source: www.bfs.admin.ch | June 2011

## Week 1: Ideas - Agenda

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# Get to Know Each Other (1 hour)

## Objective:

Get to know each other.

### Tasks:

- Take 5 mins to prepare a 1 minute introduction of yourself
- 2. Stand up and present yourself to the class. 1 minute each!
- 15min mingling following the presentations will allow for 1:1 interactions to better get to know specific people

## **Activity Guide**

#### Your introduction should cover:

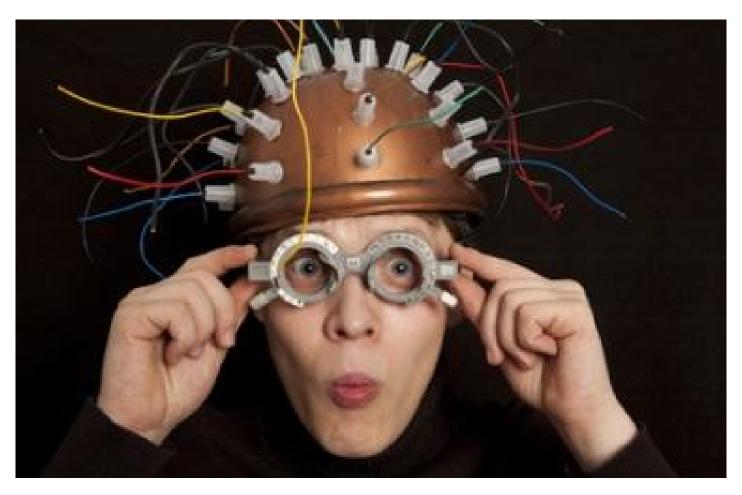
- 1. Your name
- Your current role (job/studies)
- 3. Your background (skills/experience)
- 4. Your interest in the course:
  - What you hope to contribute to the course
  - b. What you hope to get from the course
- Focus on introducing yourself now you will pitch your business idea later (if you have one)
- II. Use the participant list provided to keep track of who you have met and make any notes

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Pay Attention!!

If you have an idea and would like it to be chosen for a group to work on in this class you will have to give an elevator pitch at the Bootcamp...

### **Elevator Pitch**

 Definition: a short summary of a product, service, or organization that can be delivered in the time it takes to ride an elevator (30 secs to 2 mins)



### Key things to remember:

- 1. Avoid technical jargon and use simple language
- 2. Show passion
- 3. Start with a memorable introduction (the hook)
- 4. Leave the listener wanting to know more (create a vision)!
- 5. Make a request to the listener

# Elevator Pitch Some example structures

#### **Investor Pitch**

- 1. The Problem (the hook)
- 2. The Solution (the idea)
- How it would make money
- 4. Request to listener

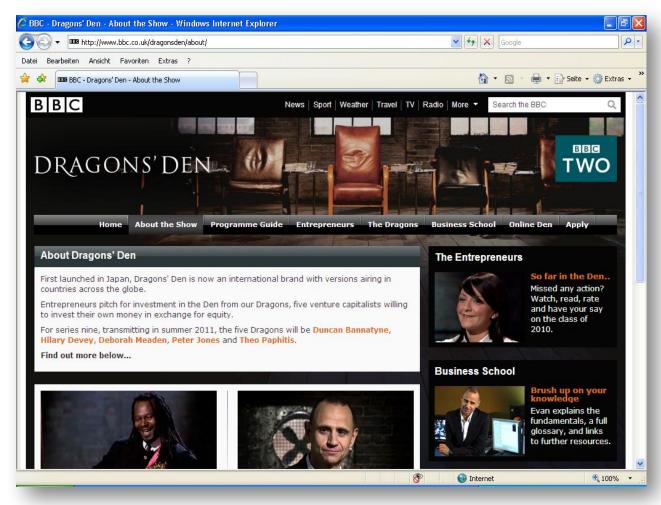
#### **Customer Pitch**

- 1. The Problem (the hook)
- 2. The Solution (the idea)
- 3. The Value Proposition to the Customer
- 4. Request to listener

#### **Partner Pitch**

- 1. The Problem (the hook)
- 2. The Solution (the idea)
- 3. The partnership model
- 4. Request to listener

# Some "real life" examples (of investor pitches)



# A"real life" example (StoryCode.com)



http://www.youtube.com/watch?v=HDczbpIO85g&feature=related (10 mins to view, 5-10 mins to discuss)

# A"real life" example (Nova-Flo)



http://www.youtube.com/watch?v=xu0QifxOGvs (10 mins to view, 5-10 mins to discuss)

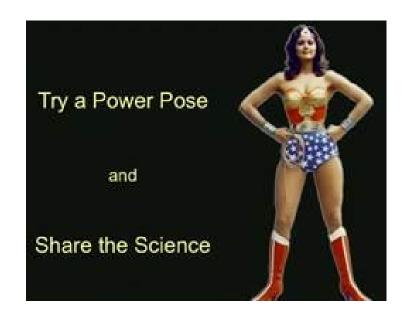
## Remember you are performing!

- 1. Stand tall, chin up, legs shoulder width apart
- 2. Look in control do not move too much
- 3. Match gestures to content
- 4. Speak clearly, slowly and with confidence
- 5. Maintain good eye contact
- 6. Repeat questions before you answer them
- 7. Remember that public speaking is a skill that can be learnt so PRACTICE
- 8. If you are scared of public speaking do not ignore the problem, address it!



## Tips for nervous presenters

- Temporarily adopt a power pose prior to your pitch to increase your testosterone levels (more confident) and lower your cortisol levels (lower your stress)
- See the Ted talk by Amy Cuddy:
   http://www.ted.com/talks/amy\_cu
   ddy\_your\_body\_language\_shap
   es\_who\_you\_are?language=en#
   t-922394



Source: Power Posing: Brief Nonverbal Displays Affect Neuroendocrine Levels and Risk Tolerance, Dana R. Carney et al, Psychological Science, 2010

# Pitch Practice (1 hour)

## Objective:

Pitch business ideas

### Tasks:

- 1. Split into groups of 5-8
- Those with ideas should take truns practicing their elevator pitches in front of the group:
  - 1. 1-2 minute pitch
  - 2. 3 minute Q&A
- Those who do not have an idea should provide constructive feedback

### **Activity Guide**

### The pitch should cover:

- 1. The Problem
- 2. The Solution
- 3. How it would make money

### **Key things to remember:**

- Avoid technical jargon and use simple language
- 2. Show passion
- Leave your listeners wanting to know more!

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# Wrap-Up (5 mins)

## Objective:

 Summarize key outcomes from this week and look ahead to the next week

### Tasks:

- Group discussion of the key outcomes and deliverables of the week
- Group discussion of any key considerations for next week

# Week 1: Ideas Summary

### **Learning Goals**

The participants are able to:

- 1. Understand the role of entrepreneurs
- Understand the principles of entrepreneurship
- 3. Identify the essence of entrepreneurial spirit and how it applies to them
- 4. Understand the main steps of the startup process and give examples

#### **Deliverables**

- Everyone on the course knows each other
- 2. Elevator pitch for the Bootcamp



What are the key take aways?

### Homework

Work on your elevator pitches for the Bootcamp

## Bootcamp schedule Morning



ili	09:45	Registration & coffee Classes
\$\frac{1}{2}\frac{1}{2	10:15	Welcome & Introduction Auditorium
-	10:30	Present your idea in the elevator pitch competition Classes (includes voting starting at 11:45)
Č	12:00	Lunch and announcement of selected ideas Canteen
	13:30	Team Formation Classes
	14:00	Team Building - Surprise Challenge Classes

## Bootcamp schedule

### Afternoon



(0)	15:00	Idea Definition - Business Value Concept (BVC) Classes
Ď	15:45	Break
***	16:15	Present and discuss BVC Classes
	17:00	Team Contract Classes
Y	17:30	Closing & Apéro Canteen
	Followed by	Drinks & Karaoke Canteen

# Week 2: Opportunity Outlook

#### **Learning Goals**

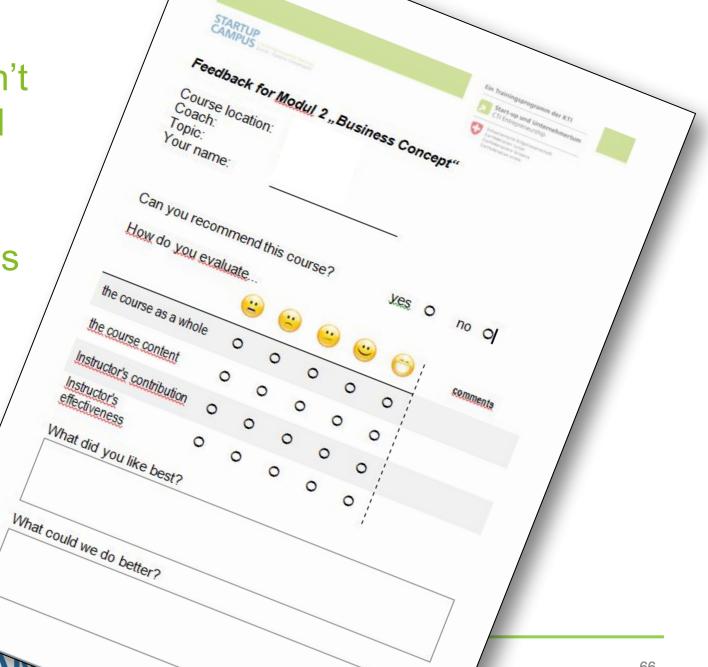
The participants are able to:

- Understand the market potential of their idea and demonstrate an ability to assess it against key criteria
- Understand the technical feasibility of their idea, conduct initial investigations to understand the barriers that must be overcome and formulate a relevant roadmap
- 3. Develop a draft version of the value proposition of the future product

#### **Deliverables**

- 1. An updated Business Value Concept
- 2. A Value Proposition

Please don't forget to fill in your feedback form for this week



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## **CTI Entrepreneurship**

Business Conception Week 1: Idea

Core Content Developed by: Dr. Ben Graziano and Prof. Dr. Adrian Müller of the Centre for Innovation and Entrepreneurship, ZHAW School of Management and Law (email: graz@zhaw.ch)

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