

# Uncertainty - different approaches

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#### **AGENDA**

- > Entrepreneurial uncertainty (McMullen & Shepherd, 2006)
  - > Perceived uncertainty can't be measured objectively
  - > The willingness to bear uncertainty also plays a role
- > Projects and uncertainty (Christensen & Kreiner, 1991)
- > Different levels of uncertainty and how to handle them (Tidd & Bessant, 2013)





#### McMULLEN & SHEPHERD (2006)

#### Focus on:

> entrepreneurial action (understood as an identified opportunity which is worth pursuing) and the elements that enhance and hinder individuals from acting entrepreneurially





#### **UNCERTAINTY CAN'T BE ELIMINATED:**

- > Action takes place over time
- > The future is unknowable
- > The novelty intrinsic to entrepreneurial action enhances the uncertainty further







#### TWO COMPETING VIEWS:

- > Level of "perceived uncertaincy" is what determines if people decides to perform an entrepreneurial action or not. It is about **different levels of knowledge**
- > Whether or not an entrepreneur pursues an entrepreneurial action has primarily something to do with willingnes to bear uncertainty which typically is about motivation





#### ... ARE JOINED

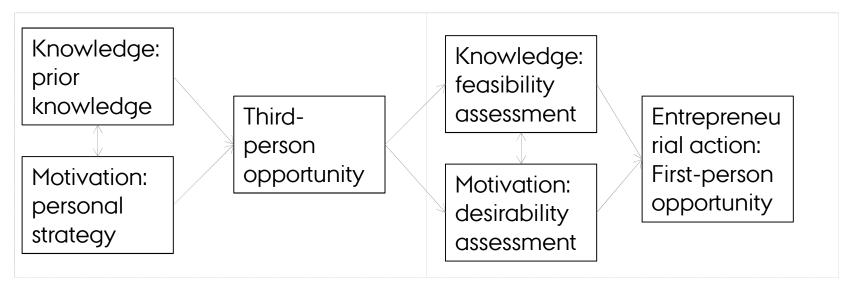
- An individual needs to act in an entrepreneurial way in order to become an entrepreneur
- > Action involves new **knowledge** and **motivation**
- > Entrepreneurial action defined as a result of the willingness to bear perceived uncertainty





### Attention stage: radical uncertainty (ignorance)

## Evaluation stage: action-specific uncertainty







## EVERYBODY CAN IN PRINCIPLE ACT ENTREPRENEURIALLY

> "Thus it seems that, to act entrepreneurially, people need **not** have a high tolerance for uncertainty if they believe that they know what they are doing"

> McMullen & Shepherd, 2006





#### PROJECTS ARE HERE FOR GOOD

 In the permanent turbulence which organizations som organisationer befinder sig i







#### CHARACTERISTICS OF PROJECTS:

- > Unique tasks/jobs
- > Complex tasks/jobs
- > Temporary organizational measures
- > Goal oriented, situational decision about establishing the project.
  - > The objective has been analyzed, negotiated and decided
- Organizational prototypes not especially reliable, elegant or effective –
   everything needs to be negotiated/decided you cannot just follow routines





#### THE RATIONALE OF THE PROJECT

- Create solutions for problems and tasks which the host organization cannot create solutions for routinely
- > Focus on the result not the way the result was reached or the ressources spend
- > Do the right things vs. do it correctly







#### 4 PHASES

- 1. Deciding on aim and objectives
- 2. Planning
- 3. Execution
- 4. Evaluation
- > Logically shouldn't the order always be like this, but officially it can be necessary There will always be uncertainty





#### 2 TYPES OF UNCERTAINTY

- > Operationel uncertainty: Painless effective execution of a given project task, will be reduced as the project proceeds
- > **Contextual uncertainty**: Is the result useful, effectual and meaningful? Grows as the project proceeds





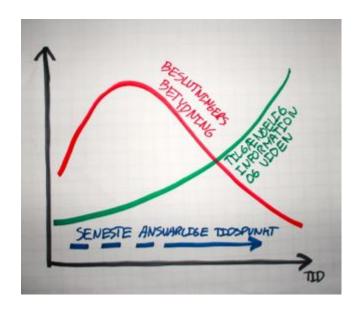
#### YOU CAN'T ELIMINATE BOTH:

- If you try to bring down the operation uncertainty the project will tend to isolate it self
- If you focus on understanding the surroundings of the project in order to eliminate the contextual uncertainty the project might never reach the mile stones and objectives.
- > Balance the two
- In entrepreneurial and innovative projects the contextual uncertainty might need most of your attention





#### CONTEXTUAL UNCERTAINTY



Red: The importance of decisions

Green: Available knowledge

Blue: Latest responsible time for

making a decision





## UNCERTAINTY ACCORDING TO TIDD OG BESSANT (2013)

- > Focused on limiting it
- > Setting: Huge organizations where there is a need for choose between alternative solutions and minimizing losses on unsuccessful projects.
- > The type of/degree of uncertainty ~ the innovation type





#### INCREMENTEL INNOVATION

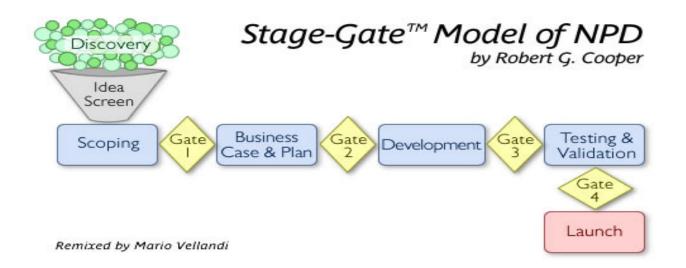
- Easy to minimize uncertainty (Stage-gate ®)
- > Business case
- > Build coalitions (network)
- > Spread the risk by portfolio management







#### PRODUCT DEVELOPMENT WITH STAGE-GATE







#### BASIC PRINCIPLES OF STAGE-GATE

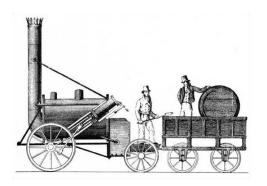
- > Only 1 out of 4 development projects will become a winner
- > The purpose is to increase this "hitrate" and get the products faster to the market
- > The stages gets more and more expensive through the model. The aim is to find the problems as early in the process as possible.
- > Gates are managed by the top-level management team.
- > The project manager drives the project from gate to gate
- > Make you focus more on the market(s) and not only technology





#### RADICAL INNOVATION

- > Difficult to lower the uncertainty
- > Need for reframing









#### TO SUM UP

- > Uncertainty is subjective
- > You need to bear some uncertainty
- > Different types of uncertainty: Operational. Vs. Contextual
- > You can't eliminate both
- > Postpone some decisions until you know more
- > You have to have different approaches towards uncertainty depending on your purpose.
- > MOST IMPORTANT: YOU CANNOT AND SHOULD NOT ELIMINATE UNCERTAINTY TOTALLY





# WHEN HAVE YOU EXPERIENCED UNCERTAINTY RESULTING IN POSITIVE OUTCOMES?

> Discuss with one or two neighbors



#### USIKKERHED HELLE MEIBOM FÆRGEMANN UDVIKLINGSKONSULENT

Sarasvathy	McMullen & Shepherd	Christensen & Kreiner
Leverage of contingencies	You can't eliminate uncertainty – it is more about how you perceive it	Don't eliminate the uncertainty – it represents opportunities
Partnerships (crazy quilt)	More focused on how the individual makes a choice	Focus on context, surroundings etc.
Don't spend too much time on business plans – it is too difficult to foresee the future	The future is unknowable	Plans tend to focus on lowering the operational uncertainty – difficuelt to foresee the future, and it can isolate the project
We need a blurred picture of where we are heading		Utilize visions