



University of Hradec Králové

IT Investment Evaluation

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Presentation Outline

- Importance of the topic
- Historical perspective
- Lessons learned
- Role of IT specialists and the role of management
- Universities and IT
- Conclusions



Importance of the topic

Gartner, Inc:

- Worldwide IT spending totaled **\$3.7 trillion**, up 6.9% from 2010 levels.
- Worldwide IT spending is forecast to total **\$3.8 trillion** in 2012, a 3.7% increase from 2011.
- 80% of the IT investment is a "**dead money**" that are spend just to maintain business operations.



Importance of the topic

PriceWaterhouseCoopers:

- 70% of all IT investments are claimed to give no adequate return on investment.
- Organizations achieved expected benefits only 25–75% of the time.



Historical perspective

- 1977** – a computer on every desk
- early 1990'** – technology per se
- mid 1990'** – Y2K problem
- 2000-2001** – the collapse of dot com bubble
- 2003** – Carr's article "IT Doesn't Matter"
- 2007** – mortgage crisis starts in the U.S.



Are we more cautious?

The University of Economics, Prague:

- Only **30%** of Czech companies use some indicators in order to **determine benefits** of their IT investments.

Mizera, J., Pour, J.: Hodnocení investic do podnikové informatiky (2010)

Tomas Bata University, Zlín:

- Only **8% of Czech companies evaluate return on IT** investments while the evaluation of return concerning manufacturing machinery is absolutely common.

Sodomka, P., Klčová, H.: Investiční priority výrobních podniků do IT (2010)



Are we more cautious?

University of Hradec Králové & University of London:

90% of Czech as well as British companies agreed with the statement “Evaluating investment in ICT projects poses a number of problems that investing in other assets does not present”

75% of companies in both countries agreed with the statement that many **appraisal models** available to assess capital projects **are too theoretical** and difficult to apply in the real world.



Are we more cautious?

Main reasons for not-conducting formal evaluation:

- Project value and size
- Insufficient time and choice (urgency, replacement)
- Lack of formal procedures
- Identification of relevant benefits
- Quantification of intangible benefits
- Complex impact on the whole organization



Is IT different?

- There is almost a blind acceptance that IT investments are different, because IT is different

BUT

- IT projects compete for limited resources with alternative investment opportunities.
- Technology does not provide benefits of its own. It is the application of technology that produces real returns.



Who is in charge?

- Lack of accountability causes that managers often lay the blame on IT departments.
- Who is responsible for wasted money?
- Who owns IT projects?
- Is it IT department or management of the company?
 - *Technology per se*
 - *Technology closely linked to our business priorities*



The role of IT department

- The period when decisions were left to IT is over.
- It would be wrong to push them in the position where they just wait for orders.
- They must understand the problem that we need to solve in order to help us to select the appropriate technology.
- They should have a seat at the decision-making table.
- Decisions must get driven by business priorities.



The role of management

- Accountability for IT projects and their outcomes.
 - How much it will cost us? What are the benefits?
 - How the project will change/improve our position?
 - How many people will use it?
 - How it will influence/change other processes?
 - What are our competitors doing?
 - What are our clients expecting?
 - How shall we evaluate it? How shall we insure a return on our technology investment?



Universities and IT

- Universities are not typical business-like organizations.
- Technology is widely available to everyone else.
- Our strategy must focus on ways of its utilization.
- Many opportunities for being unique because of IT:
 - *IT professionals*
 - *Teachers education*
 - *IT in tourism and leisure management*
 - *IT in archeology*
 - *IT for record-officers*



Evaluation of IT investment

- Our strategy must focus on ways of its utilization
 - Strategic, analytical, and financial approaches
 - Benchmarking
 - Stakeholders involvement
 - *Our teachers*
 - *Our students*
 - *Our graduates*
 - *Our “business” partners (advisory boards)*



Universities and IT

- Vast variety of technology vs. focused approach
- **Strategic partners of UHK:**
 - Microsoft (cloud solutions, Office 365)
 - *Microsoft Innovation Centre*
 - VMware (Universal Desktop)
 - IBM (statistical and datamining software solutions)



Universities and IT

- Mistakes and problems at UHK:
 - Purchases of too special pieces of hardware
 - Poorly prepared introduction of Apple Macintosh computers
 - In-house development of study agenda IS
 - Co-existence of two different internal IS
 - Co-existence of central and local IT departments
 - Too fragmented research interests



Conclusions

- Information technology is different, but it does not mean that IT investments are automatically justified.
- Top management (not IT department) is responsible for technology budget approval and the sound and clear link between technology and our business objectives.
- Technology on its own cannot bring any major changes, the competitive advantage comes from its application.
- It is not an easy task to evaluate IT investment but we must not resign on it!



