

DTU

DTU E2011 6. Lecture

## BUDGETTING

- Methodology
- Case

### Why bother

- Quantify scenaria *Get an overview of economics*
- Quantify perspectives *Get people involved*
- Determine cash requirements *Get your venture funded -*
- Cashflow management *- and managed.*  
by budget supervision
- Tuning in the start-up strategy *- by balancing perspective against financing model*

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## BUDGETTING PROCEDURE

*Precondition for budgetting:*

Market analysis and business model finalized

1. Market penetration scenario established -> **sample**
2. Estimate company operations as a function of sales
3. Establish budgets on transactions<sup>1</sup> in sales and company operations

Budget on transactions in sales and company operations  
=> **Your CASHFLOW BUDGET excl. investments**

1) Transaction = money being moved in or out of the company's bank account

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## CASHFLOW BUDGET

**CIMITYM**  
*Cash Is More Important Than Your Mother (Ken Morse, MIT)*

- **Input:**  
ALL estimated in- and outgoing payments (transactions) in a time domain
- **Output:**  
The total amount of cash flowing in and out in the time domain => The net amount of cash flowing in/out

Accumulated net cash flow = **Cash in Hand** as a function of time

Cash ind hand **NEVER** negative:  
*that defines your capital requirements!*  
*Inject capital until this precondition is met at any given time*

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## Cash Flow Budgeting -> Capital Requirements



### SALES and PRODUCTION

Outgoing payments to cover production and incoming payments from sales are derived from:

- Unit costs
- Market penetration in the time domain (market entry scenario)

### MARKETING and OPERATIONS

Outgoing payments to run the company are derived from

- Sales & Marketing expenditures
- Rent, running costs, salaries
- IPR, R&D expenditures
- Capital expenditures

Add all outgoing (+) and incoming (-) payments determine cashflow ( $Q$  [DKK/month]) and cash-in-hand ( $\sum Q$  [DKK]).

Adjust with appropriate cash injections (*loan, equity capital*) to create a positive cash-in-hand throughout the project

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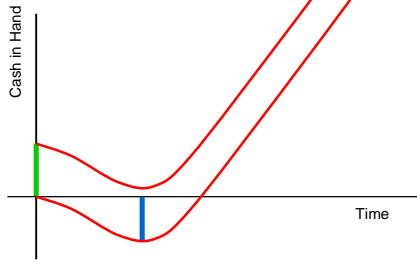
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## Cash Flow Budgeting



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## Budget on Profit & Loss

Precondition: the cashflow budget



- Covers an extended period eg.: 1 year = Annual results
- Objectives: analysis, perspectives, key figures, profitability
- Consequences:
  - Trim your business
  - Benchmarking against your competitors' performance
  - Benchmarking against your own previous performance
  - Sanity check – with key-figures and common sense
  - Quantify returns on investments => VC case? Y/N.

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**Budget on Assets & Liabilities - 1**

- **Assets = Values owned by the company**
- **Liabilities = How are said values financed**
- **Assets** = outstanding amounts owed to the company, cash, IPR, goodwill , buildings, cars, production facilities - - - depreciated to value as per to day.
- **Liabilities** = invested capital, accumulated profit/loss, outstanding amounts owed by the company
- **Invested equity capital + cumulated profit/loss = equity capital of the company**

Budget on Assets & Liabilities is the last to complete

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**Budget on Assets and Liabilities - 2**

**Objectives:**

- Determine development in company value over time
- Present financing
- Keep track of development in debtors and creditors
- Check minimum legal equity

**Consequence:**

- **Solvency = capacity to withstand losses is determined**
- **The development of values over time is quantified**
- **The proficiency in running a tight payment policy is demonstrated**
- In DK: legal minimum equity capital is checked

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**the waterbike**

Incredible human-powered flight!!

- Waterbike 1** The inventor
- Waterbike 2** First commercial
- Waterbike 3** Market develops



- Sample 1:** case
- Sample 2:** generic model

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