



Swiss e-commerce conference 2017

How to finance e-commerce
growth through working
capital management?



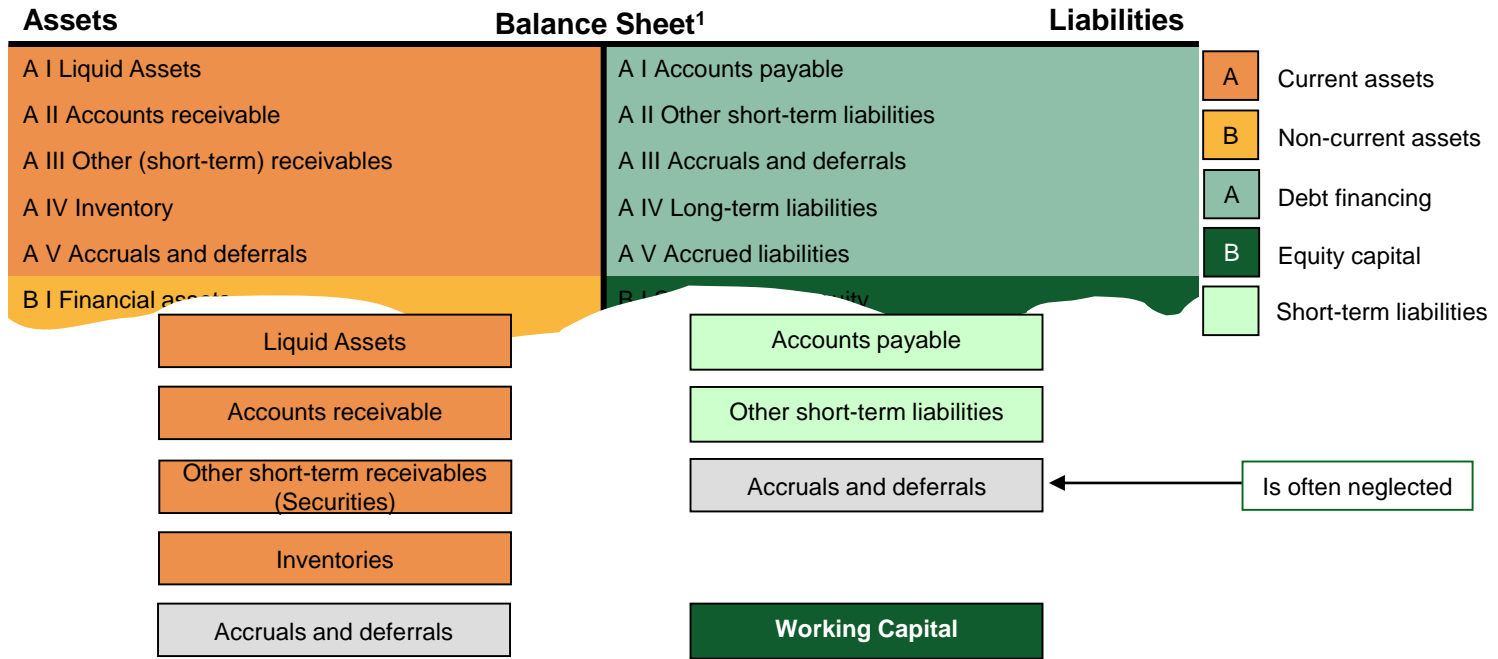
Prof. Dr. Erik Hofmann
Erik Herlyn

Baden, November 16th

1. E-commerce and working capital management

2. Application example: Off-balance-logistics

Definition of working capital from a balance sheet point of view



$$\text{Working Capital} = \text{Current assets} - \text{short-term, non-interest-bearing debt}$$

▶ Working capital is the part of the current assets, that has to be financed by interest-bearing capital.

Implications of working capital from a balance sheet perspective

Balance sheet

Assets	Liabilities
Current assets	Short-term debt
Non-current assets	Long-term debt
	Equity capital

Positive net working capital:
Part of the current assets are financed with long-term capital.

Balance sheet

Assets	Liabilities
Current assets	Short-term debt
Non-current assets	Long-term debt
	Equity capital

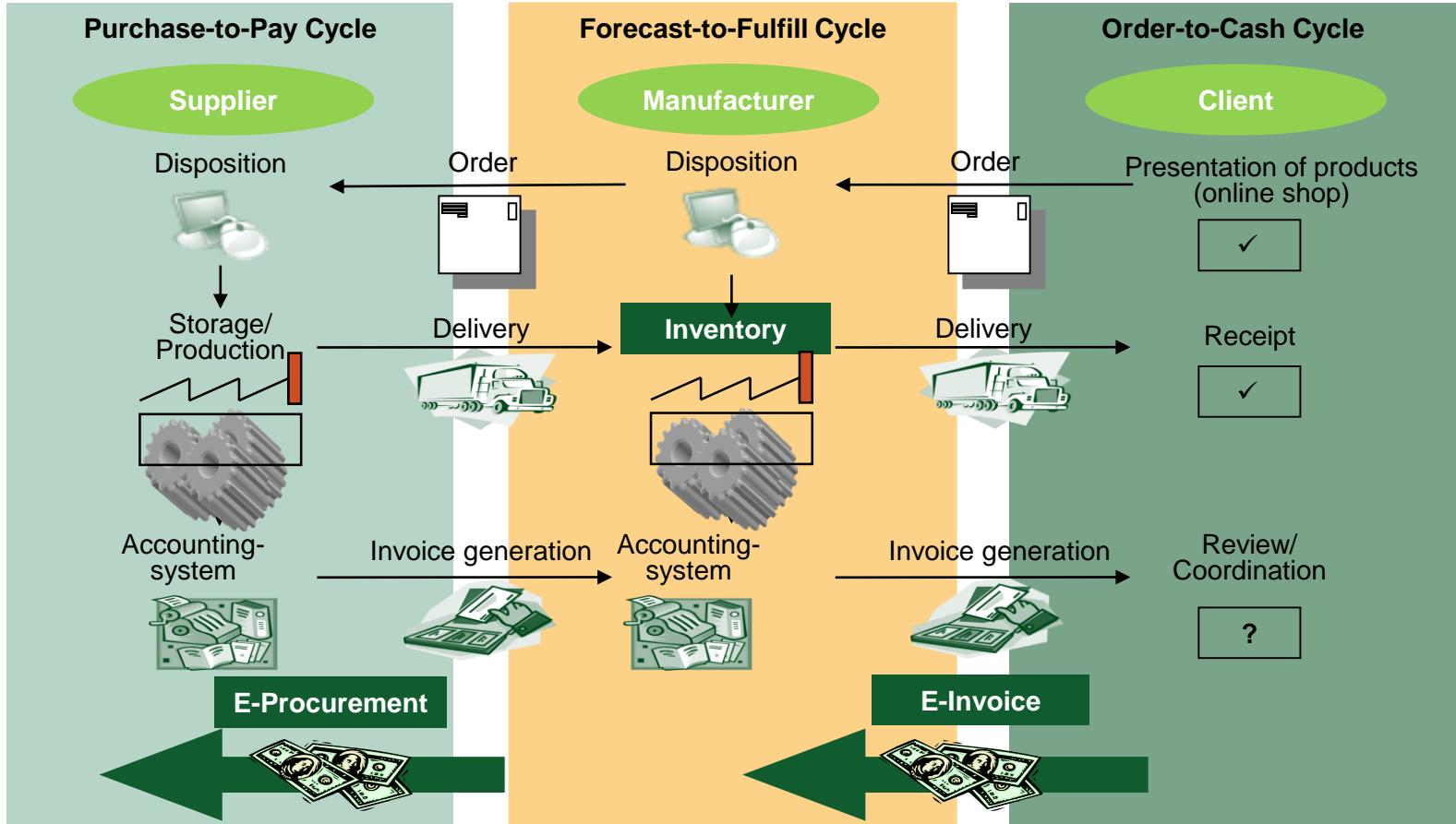
Negative net working capital:
Inventories and accounts receivable are not enough to cover the accounts payable. The company may experience problems of liquidity.

The higher the working capital, the more secure the company's liquidity.

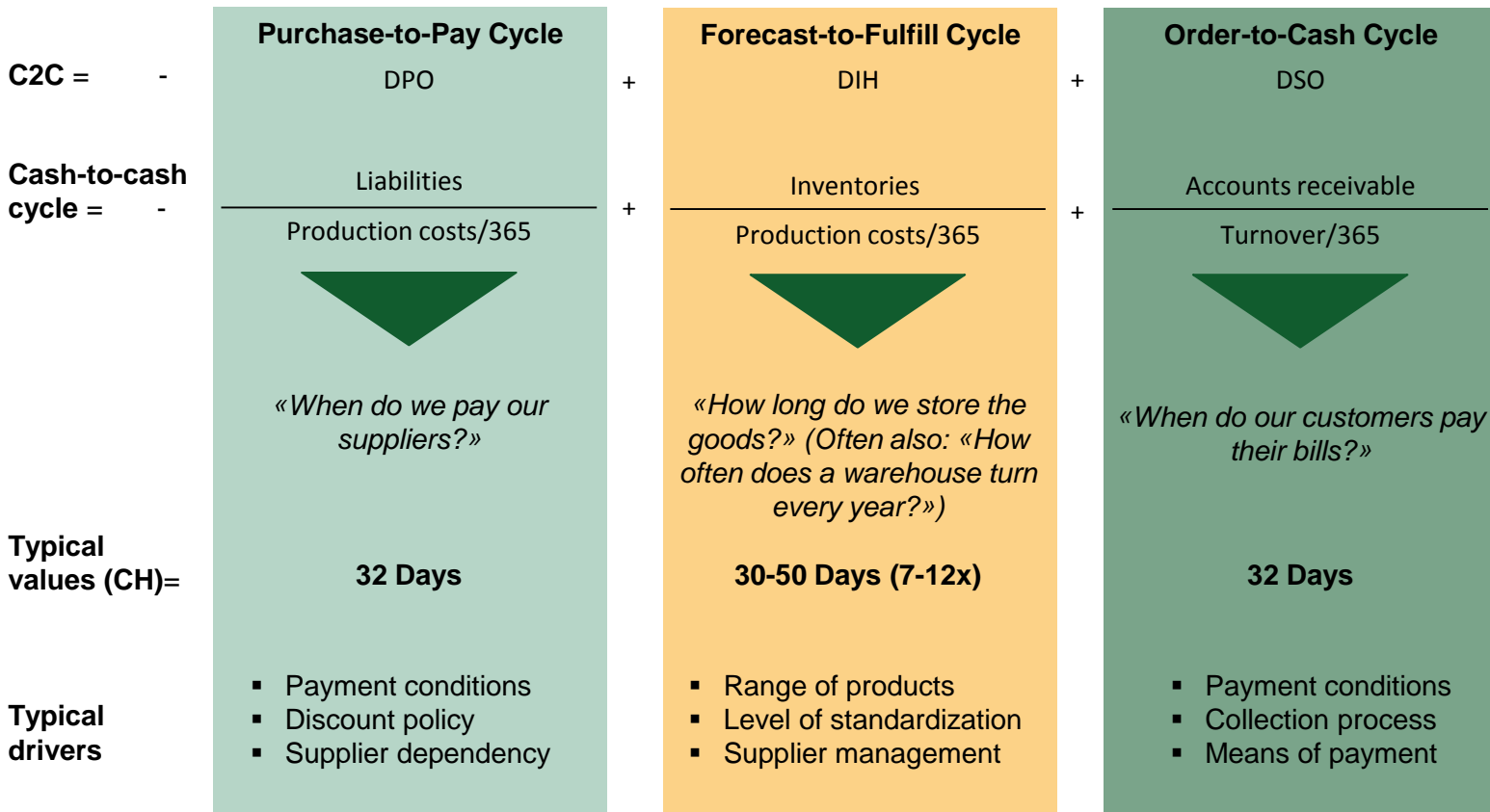
But:
Excessive working capital creates additional, avoidable storage and commitment costs.

The management of the net working capital fluctuates between a too high and a too low value. Furthermore, specific success impacts have to be considered.

Working capital management and its e-commerce potential

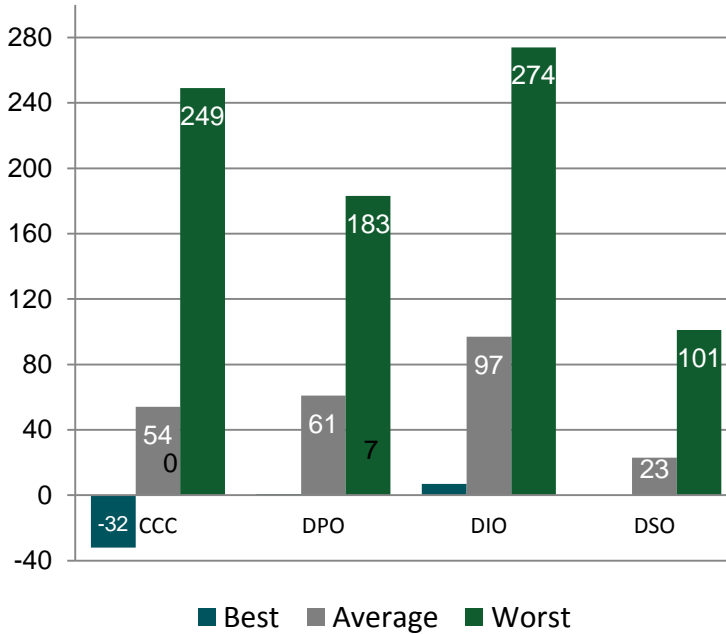


The cash conversion cycle



Working capital management performance across the retail sector

Average Cash conversion cycle by selected retail sub-sectors



Average Cash conversion cycle by selected retail sub-sectors



Retail is typically characterised by low DSO-values. However, inventory performance (DIO) is the most widespread (almost 180 days) and therefore the most likely key performance differentiator for retail companies.

E-commerce and Working Capital Management

1. Application example: Off-balance-logistics

An agile inventory management system is the backbone of each e-commerce business

Challenges

Capital tied up in warehouses

High percentage of procurement in turnover
Long storage duration (DIH > 45 d)

Cost pressure

Cost of storage
(relative to stock value > 20%)
Cost of transport
(Share of turnover > 1.2%)
Cost of capital (WACC > 6%)

Logistics requirements

Market-driven: faster delivery,
E-Commerce, CO₂-neutral
Internal: limited storage capacity,
fixed-step cost of storage

OFF-BALANCE LOGISTICS



End-to-end logistics removed from your balance sheet

You sell your stocks to Swiss Post, we take them on physically and on our balance sheet

You sell to your customers – we deliver the goods

Swiss Post also assumes all related payments on your behalf.

Benefits

Enhanced liquidity

Reduction of capital tied up in warehouse inventories



Cost reduction

Reduced cost of storage / logistics through outsourcing to specialists



Reduced cost of capital

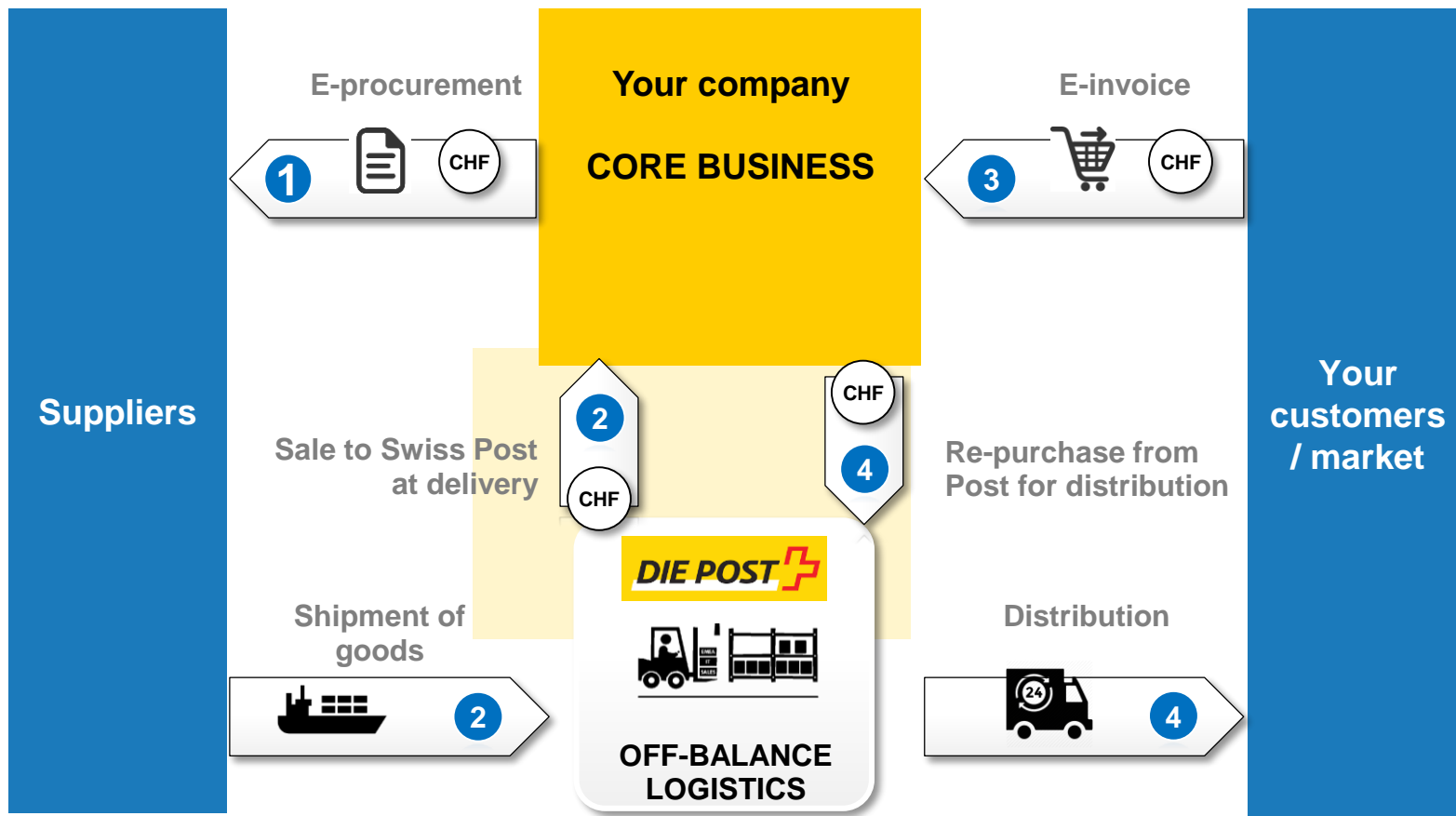
Rigorous use of cash discounts

Requirements fulfilled

Without additional investment in internal logistics



PostFinance & Swiss Post offer logistics and E-Commerce services in one stop



Comprehensive effects on liquidity and costs

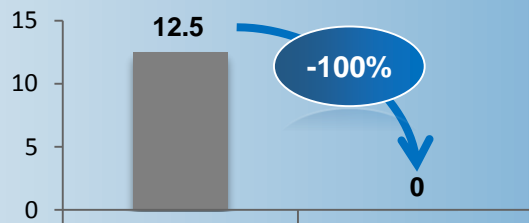
EXAMPLE: PROCUREMENT VALUE CHF 100 Mio. p.a.

BENEFITS OFF-BALANCE LOGISTICS

Tied-up capital:

DIH: 45 d

Value of stocks MCHF 12.5
 (MCHF 100 / 360 d * 45 d)



Additional liquidity:

DIH: 0 d

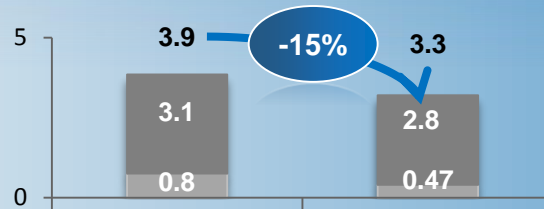
Stocks removed from balance sheet and MCHF 12.5 additional liquidity



Cost:

Cost of storage MCHF 3.1
 (MCHF 12.5 * 25% storage cost)

Cost of financing MCHF 0.8
 (MCHF 12.5 stocks * 6% WACC*)



Cost reduction:

10% reduction on logistics
 Reduced cost of financing 6% to 3.75%



New requirements:

E-Commerce



E-Commerce possible without additional investment

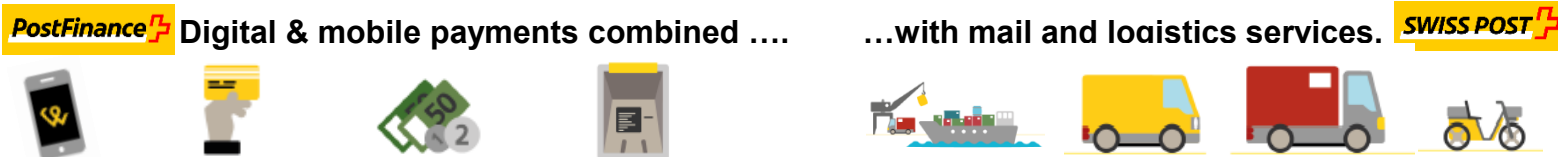


Off-Balance Logistics advantageous if:

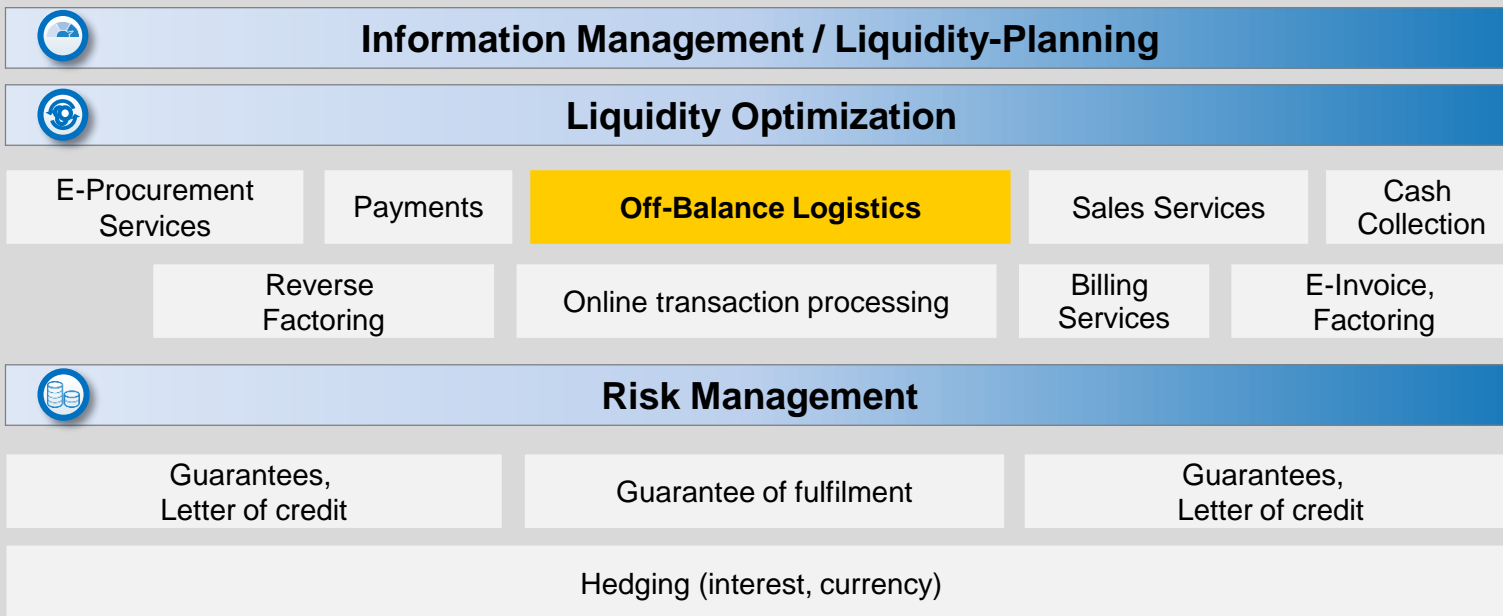
Stock value > MCHF 3 WACC > 6% Equity ratio < 20% Liquidity needed to finance growth



Our broad range of E-Commerce services and solutions create value from marketing to ordering through to logistics



Future modular offering PostFinance / Swiss Post



Chair of Logistics Management



Prof. Dr. Erik Hofmann
Direktor

Tel.: +41 71 224 7295
E-Mail: erik.hofmann@unisg.ch



Erik Herlyn
Working Capital Management
PostFinance AG

T: +41 76 566 05 60
E: erik.herlyn@postfinance.ch

