BANK-WIDE SIMULATION

KPI DEVELOPMENT IN VARIOUS SCENARIOS

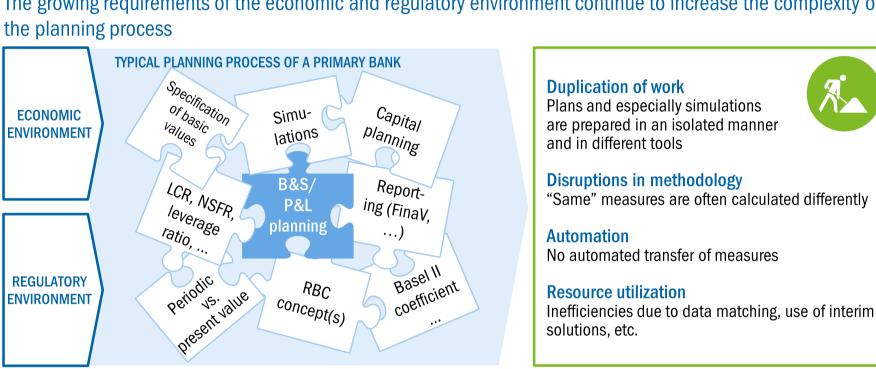


Initial situation of the planning process

SUB-STEPS OF AN IDEAL PLANNING PROCESS (SIMPLIFIED)



The growing requirements of the economic and regulatory environment continue to increase the complexity of



Challenges and solution MAJOR CHALLENGE TECHN. IMPLEMENTATION REQUIREMENTS Self-consistent calculation of balance sheet, P&L, risk and regulatory measures Cash reserve Multidimensional analysis in consideration Receivables from banks of alternative scenarios Technical Business model-specific definition of Integrated analysis relevant target scenarios requirements of B/S structure/ P&L in year 1 Expenses Income Precise consideration of maturities and 2. Gen. admin. expenses 2. Current income amort. 3. Income from write-ups 5. Taxes 4. Other operating income 5. Extraordinar income interest rate development Appropriate level of accuracy/granularity, or otherwise danger of inefficiencies or \sum Expenses \sum Income Setup of an integrated balance sheet, P&L and liquidity model for mapping dependencies and impact directions in a standard software **BANK-WIDE SIMULATION** Multi-period planning Complete set **Consistent** and Consideration of scope can be defined of relevant **KPI** coherent planning of Integrated scenario as needed; precise administration "at the balance sheet, available; mapping of consideration of relevance for capital, P&L and cash push of a button" growth dimensions rate development

Approach and functional area

HOLISTIC APPROACH

CET1

Leverage

B/S P&L

ZEB SOLUTION

Simulates projections of various

business model-specific value

Models dependencies among risk,

income, balance sheet use and

Calculates KPI and dependencies

on divisional and group level

Identifies and assesses direct

impact of planning on KPIs

management actions

Estimates scope and results of

further requirements using different

drivers and scenarios

Enables various levels of

aggregation

ASSUMPTIONS ON ...

- Interest rate development
- Product parameterization (mix ratios of variable products, maturities, (net) margin development, repayments, etc.)
- Income and maturities of products (or product categories)
- Changes in asset or off-balance sheet items, separated by asset
- Cost development
- Dynamic appropriation of earnings development of equity
- Risk weighted assets (RWA)
- Capital resources and ratios LCR and NSFR weighting

ZEB.CONTROL FEATURES

Mapping of basic relations

• (Basis) modeling for P&L, B/S and CF necessary for bank-wide simulation and stress testing

LCR/

NSFR

• Diverse "playing around" with "what if" scenarios to generate hypotheses

Mapping of effects over time

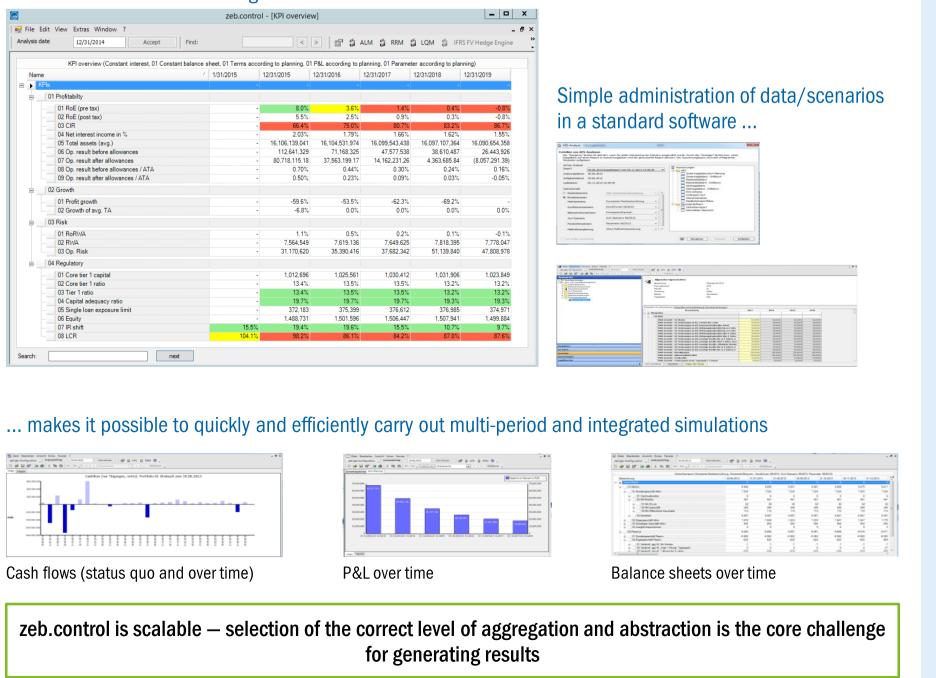
- Modeling of maturity effects, elasticity and transformation result necessary for simulation
- Dynamic simulation over time to estimate the stability of overall performances

Aggregation level selection

- The management portfolio level is useful for simulating strategic basic values
- Data accuracy of 80:20 is often sufficient further specification as part of bottom-up planning

Requirements and reporting

Central overview of the main figures over time



2021 schedule

September	October	November	December
1 Wed	1 Fri	1 Mon	1 Wed
2 Thu	2 Sat	2 Tue	2 Thu
3 Fri	3 Sun	3 Wed	3 Fri
4 Sat	4 Mon	4 Thu	4 Sat
5 Sun	5 Tue	5 Fri	5 Sun
6 Mon	6 Wed	6 Sat	6 Mon
7 Tue	7 Thu	7 Sun	7 Tue
8 Wed	8 Fri	8 Mon	8 Wed
9 Thu	9 Sat	9 Tue	9 Thu
10 Fri	10 Sun	10 Wed	10 Fri
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13 Mon	13 Wed	13 Sat	13 Mon
14 Tue	14 Thu	14 Sun	14 Tue
15 Wed	15 Fri	15 Mon	15 Wed
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24 Fri	24 Sun	24 Wed	24 Fri
25 Sat	25 Mon	25 Thu	25 Sat
26 Sun	26 Tue	26 Fri	26 Sun
27 Mon	27 Wed	27 Sat	27 Mon
28 Tue	28 Thu	28 Sun	28 Tue
29 Wed	29 Fri	29 Mon	29 Wed
30 Thu	30 Sat	30 Tue	30 Thu
	31 Sun		31 Fri

My notes

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