

Financial modeling and logistics

The "IT: Financial Planning" technology is the "financial modeling (logistic, manufacturing) cycles with automatic calculation of reporting to the planning horizon". Model consists of interrelated financial cycles and periodicity (frequency). Financial cycle components:

- 1. Materials:
 - delivery period;
 - payment period:
 - advance payment;
 - payment delay;
 - insurance stock;
 - preparatory stock.
- 2. Technological cycle:
 - loading of power (quantity);
 - day (the proportion of the day) when materials enters production subject to the process;
 - technological standards of material consumption per unit of finished product:
 - the distribution by work center;
 - the release of the finished product.
- 3. Finished products:
 - preparatory stock;
 - insurance stock;
 - delivery period;
 - shipment of finished products;
 - payment period:
 - advance payment;
 - payment delay;
 - trade credit.

"IT: Financial Planning - a mathematical model with mutable variables. As the simulation affects the variables:

- Qualitative variables (business selection):
 - if the "materials" (1) is not used, then - "services";
 - if the "technological cycle" (2) is not used, then - "trade";
 - if the "financial cycle components" are all used - "production".
- Temporary variables:
 - "periodicity (frequency)", "financial cycle components" - calculations do not depend on the planning step;
 - if the "periodicity (frequency)" and "financial cycle" is equal to the planning step, the planning takes place in the usual way (monthly, quarterly, etc.).

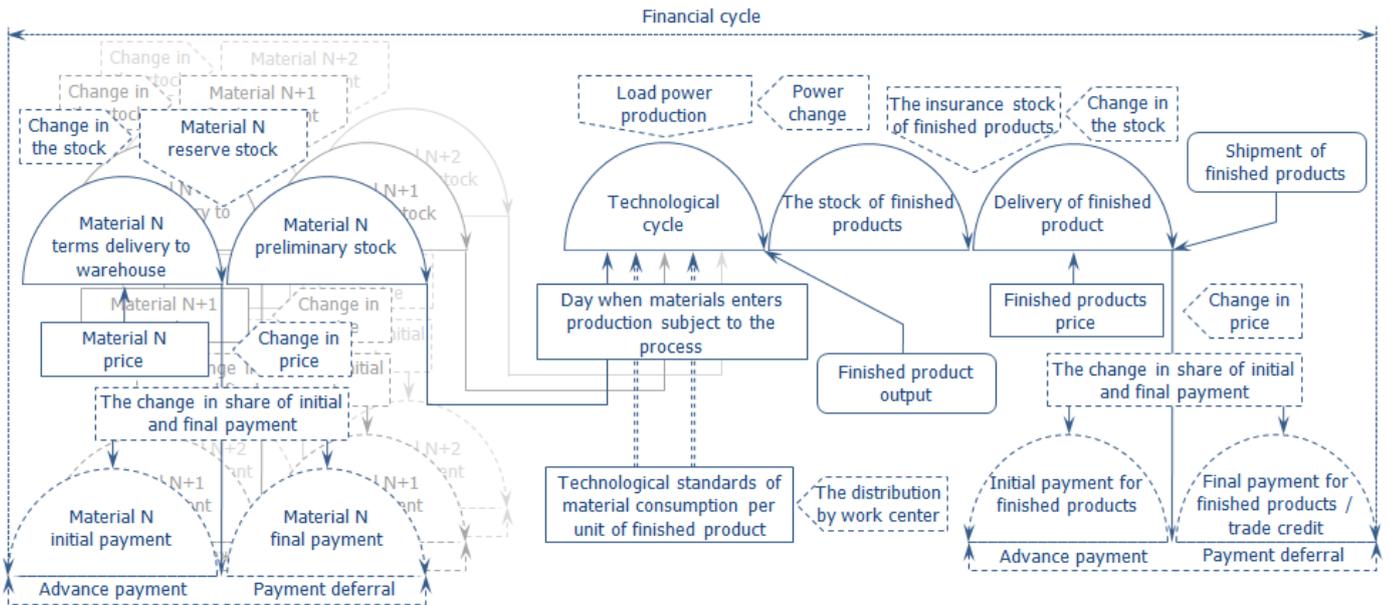
- Quantitative variables:
 - "periodicity (frequency)" - the number of financial cycles in the planning step (duration in days - without restrictions);
 - "financial cycle components" - changes in positive and negative direction from the point of planning on the time axis (duration in days - without restrictions);
 - "load power" (the main control) - all components of the financial cycle;
 - "technological cycle (period)", "day (the proportion of the day) when materials enters production subject to the process", "preparatory stock" of materials (finished product) - logistics and manufacturing operations, the duration of the financial cycle;
 - "delivery period" of materials (finished product) - payment period, logistics and manufacturing operations, the duration of the financial cycle;
 - "payment period" of materials (finished product) - the initial (final) payments, the duration of the financial cycle;
 - "insurance stock" of raw materials (materials) - the number and frequency of deliveries in physical units;
 - "insurance stock" finished products - the number of sales in physical units;
 - "the price" of raw materials (materials) - payment and the cost of manufacture (shipment) in monetary units;
 - "the price" of the finished products - payment and revenue in monetary units;
 - "initial payment" for raw materials (materials) - the initial (final) the amount of cash outflows;
 - "initial payment" for finished products - the initial (final) the amount of cash receipts.

"IT: Financial Planning" technology allows you to:

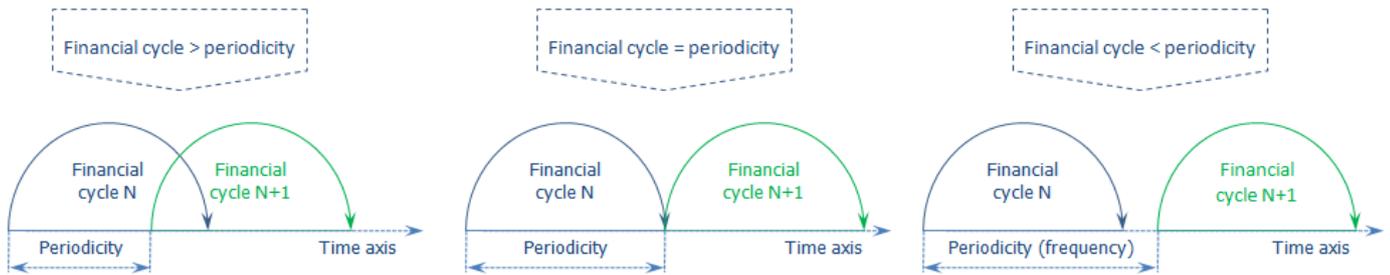
- associate operations: financial, logistics, manufacturing;
- operations: automate, modeling, planning, detail;
- calculate optimal motion operations (logistics, manufacturing, financial) for the sixty periods (period: day, month, quarter, six months, one year);
- automate financial statements;
- reduce costs, improve transparency, it is easy to control the details of the reporting enterprise.

Programming language: Microsoft Excel, VBA

Developer offers and is considering possible ways of cooperation.



The movement of financial cycles before the planning horizon



Formation of the reporting by operating activities (principles)

