

Workflow

Feature	Description
Task list	The new 'Task list' presents a convenient overview of all open tasks for the current user. The task list is based on the workflow status of portfolios and projects.
Workflow	Workflows for portfolios and projects are implemented. The portfolio workflow is created around the approval process of a portfolio, whereas in the project workflow the stage approval process is supported. When changing a workflow status a due date can be set.

The screenshot shows the 'Task list' interface with a table of tasks and a workflow diagram below it.

Name	Status changed	Task	Task due date	Change workflow status	Status in preferred composition
Items: Portfolio with action ; Count: 1					
CleanTech	17/06/2013	Enter portfolio data		< Set new status >	n/a
Items: Project with action ; Count: 32 (Showing 9 of 32 items. Group continues on the next page.)					
Bareboard 2015	19/06/2013	Analyze project	24/06/2013	< Set new status >	Selected
ML150	19/06/2013	Analyze project	24/06/2013	< Set new status >	Not selected
HLR	19/06/2013	Analy			
Max-2	19/06/2013	Revis			
SL200	19/06/2013	Revis			
ML200	19/06/2013	Revis			

The workflow diagram shows a process flow from 'Concept' to 'Feasibility'. The steps are: Concept (green arrow) -> Submitted (green arrow) -> ANALYZE (green arrow) -> Submitted (green arrow) -> REVIEW (orange arrow) -> Approve (orange arrow). There are 'Reject' buttons above the ANALYZE and REVIEW steps, and a 'Kill' button below the REVIEW step.

Compositions

Feature	Description
Portfolio compositions	The new portfolio compositions replaces the old portfolio alternatives. Multiple compositions can be created per portfolio. In each composition, the active projects (or variants) can be selected manually at various levels: mandatory or optional.
Calculated compositions	An optimal composition can also be calculated using a variable to optimize (such as NPV, revenue, or profit) and can optionally include one or more resource or budget constraints. See the ' Use case ' where the optimization is explained.

Constraints

Constraints can be set for several indicators such as maximum budget, minimum profits, maximum resources, and may vary over time. These constraints can be used in the calculation of compositions and displayed in the Resource diagram or the 'Portfolio over time'-diagram. These constraints replace the previous Target Line feature. Balance constraints drive the automatic calculation of portfolio balance KPIs. These balance KPIs are displayed in the Portfolio list. The balance constraints can be displayed in the Balance diagram. Balance constraints are available per portfolio and for the overall portfolio (the aggregation off all portfolios).

Composition overview

In the new overview 'Composition Overview' all compositions within a portfolio are listed. Different compositions can be compared, changed and (re-)calculated.

The screenshot displays the FlightMap software interface. On the left, the 'Portfolio' settings for 'CleanTech' are shown, including workflow status, settings, and various tabs like 'general information', 'constraints', 'base', 'alternate 1', and 'alternate 2'. The 'Preferred composition' section is active, showing settings for Name (Base), Description, Optimization variable (Future Value (NPV)), Constraints (Net Innovation Costs), and Strictness of constraints (0%).

On the right, a 'Portfolio' view shows a 'Base Scenario' with a 'Net Innovation Costs' chart. The chart displays a waterfall-style bar chart with values ranging from 0M to -€1.5M.

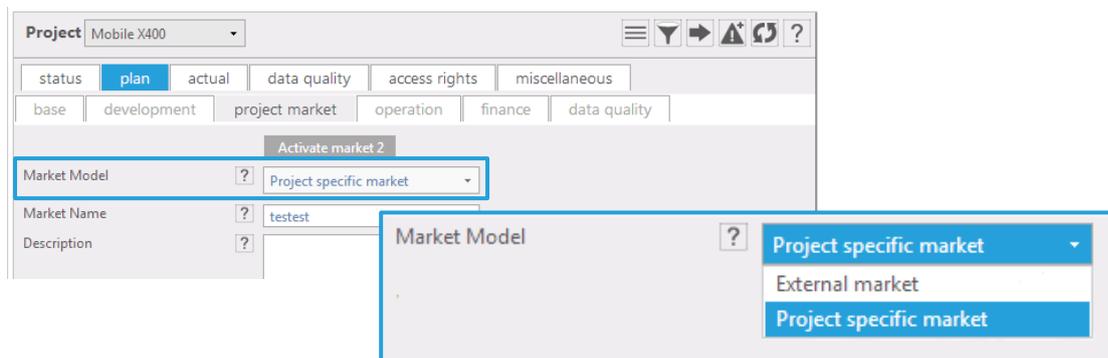
At the bottom, the 'Composition overview' window is open, showing a table of project selections across different scenarios. The table includes columns for Project, Base, Alternate 1, Alternate 2, and Future Value (NPV). Projects are categorized into 'Selected in: all', 'Selected in: some', and 'Selected in: none' groups.

Project	Base	Alternate 1	Alternate 2	Future Value (NPV)
Selected in: all; Project count: 1				
ML200	Selected (calculated)	Selected	Selected	€5.890.000
Selected in: some; Project count: 7				
Max-2	Selected (calculated)	Selected	Not selected	€1.730.000
PL-S	Selected (calculated)	Not selected	Selected	€7.690.000
SLX	Not selected (calculated)	Selected	Selected	€5.840.000
Bareboard 2015	Not selected (calculated)	Selected	Selected	€7.140.000
ML100	Selected (calculated)	Not selected	Not selected	€2.730.000
Max-3 (v2)	Mandatory	Selected	Not selected	€2.790.000
Powering cars with algae	Selected (calculated)	Not selected	Not selected	€9.520.000
Selected in: none; Project count: 4				
SL200	Not selected (calculated)	Not selected	Not selected	€1.090.000
ML150	Not selected (calculated)	Not selected	Not selected	€55.000
SLXII	Rejected	Rejected	Rejected	€1.760.000

Inactive projects in charts	In the charts Bubble, Funnel, Portfolio over time and Resource diagram, projects that are not selected in a composition can also be shown. For the last two charts this option is only available when the option 'stacked by project' is selected.
One-click selection of projects in charts	When the above mentioned option is activated in the Bubble and Funnel chart, a project can be added or removed from the composition by clicking on its bubble. This feature is only active when panels are synced and the active composition or the composition overview is opened in another panel.
Compositions for the overall portfolio	For the overall portfolio, the aggregation of all portfolios, three compositions can be created (Base, Alternative 1 and Alternative 2) by selecting per portfolio which composition is to be included.

Other new functionality

Feature	Description
Project specific markets	Next to linking a project to a target market it is possible to create a "project specific market". In a project specific market the number of placements, price, and profitability are defined for a particular project/product. In this setup the number of placements can be defined per quarter. The first quarter for which placements can be defined corresponds with the quarter in which the product is launched.



Stage distribution	The distribution of cost, staffing, and income over each stage can be defined. Distribution options include: uniform, ramp up, and ramp down. This feature is especially interesting for projects with long stage durations.
New KPIs	The standard set of project KPIs is now extended to include R&D Resource Efficiency (as value divided by resources). The portfolio-level KPI set is extended with balance KPIs. These balance KPIs show how well the portfolio is balanced (according to the balance constraint), where 0 means maximum mismatch between actual and desired balance, and 100 means optimal balance.

Various

Feature	Description
Performance improvements	Several performance improvements have been made in the software. The server Flightmap runs on has been moved to a Data Centre with a faster and more secure infrastructure.
Over time charts	The selection options for showing a second portfolio (or project) and a second data series to plot in the time charts has been improved.
High contrast theme	A new theme is added: High Contrast. With this theme active Flightmap will show itself with black font on a white background. This makes Flightmap better visible on e.g. a beamer projection. The theme can be set per user in the User settings.
Change password	The procedure for changing password on first sign in has been improved.
Deleting items	Portfolios, Projects, Markets, Partners, Technologies and the new Compositions can now be deleted from the portal. Because these actions cannot be undone this functionality is only available for administrators.
Super-admin functions	For administrators some features are only active when the 'super-admin functions' are activated (in menu Administration). These features are: <ul style="list-style-type: none">- set portfolio- and project workflow status to an arbitrary new status (bypassing the workflow steps);- deletion of portfolios, compositions, projects, markets, partners and technologies;- archiving and de-archiving projects