

Rimo ^{SaaS}

RESOURCES IN MOTION

Our e2e-solution for your FTTx-Network

SPL TELE ...



What does RiMo (Resources in Motion) represent?

RiMo describes all resources of an enterprise and their changes (motions).

In our model, on one hand, resources are objects and materials, like buildings, shafts, ducts, cables, splice boxes, etc., and on the other hand persons, locations, contracts, etc. These resources change their state (location, status, responsibility, and so on) during their lifecycle. RiMo not only plans and operates, but shows relations as well as changes and makes them transparent.

All-in-one

Since the first day and the first requirement, we have been following the goal to create an integrated platform.

The approach, which is to acquire data right where it accrues (everywhere and in real-time), has been shaping RiMo and how we manage just as much as around 4.000 users, which constantly have been giving feedback and new requirements since 2001.

One product

RiMo offers all the functions which a passive infrastructure provider needs to build, plan and operate a FTTx-network. This is of utmost importance, because a network, in every component, shows this different phases at the same time. This unique tool-approach makes it possible to integrate external systems, and cover all requirements.

One view – one truth

Nothing is more unproductive or time-consuming than different editors or partners having different information about the status of the FTTx-network. The time spent deciding whose data is correct and synchronizing it does not bring any benefits.

What if all parties had the same view (according to their authorizations) of the same data in real-time?

What if reporting did not mean the data had to be prepared for hours or days, but every user had the information he needs one click away... This can now be easily achieved with RiMo!

One technology

Unlike its biggest competitors, RiMo is not a patchwork of different technologies and products, which stem from company takeovers or cooperation and had to be painstakingly put together afterwards.

RiMo pursues one goal: It wants to enable the network operators to have control over the whole value- and process-chain with one common interface, one single application, one technology and the know-how, all from a single source.

Full control in all phases of network life circle

The holistic approach matters. Economic success of a network operator depends on many factors. The most important thing is being able to make decisions based on facts. For the upcoming large-scale network extensions planning is an important step, but only one of many. Actually, the greatest challenge at multidimensionality and simultaneity is to know the current status and therefore make the right/ideal decision.

Simplicity

It is obvious that the planning and architecture of optical networks is very complex and time-consuming. RiMo enables an inexperienced user to create an optimally planned FTTx-network after just a short training period. This ease of use is important, because the planner's knowledge of local conditions cannot be replaced by any system.

Speed

Automation and wizards remove the burden of time-consuming and error-prone routine tasks from RiMo-users. Because of this, approximately 4.000 demand points a day can be planned in draft planning. These functions also offer support during further steps like fiber- and expansion planning. As Software-as-a-Service (SaaS), RiMo can be productively used within a few days.

Integration

RiMo's integrated platform unites all necessary functions for an efficient network operation:

- uniform administration,
- one single user interface,
- one single security management,
- one database,
- integrated view on the data.

Independence

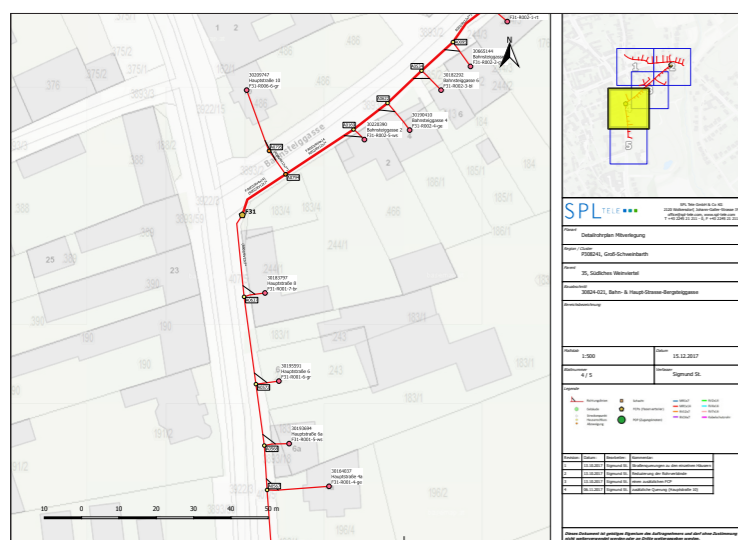
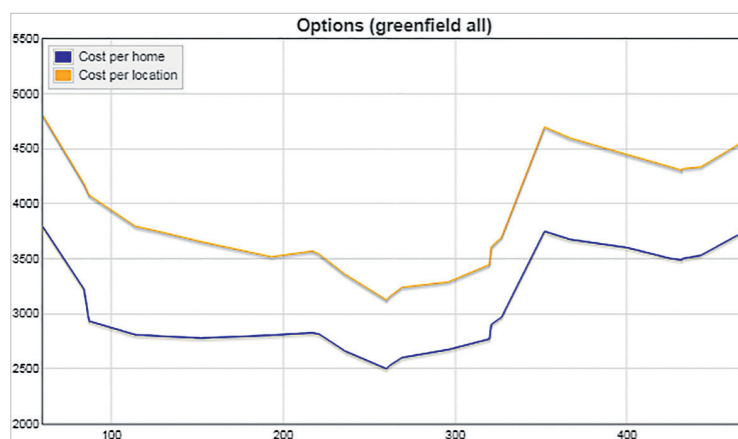
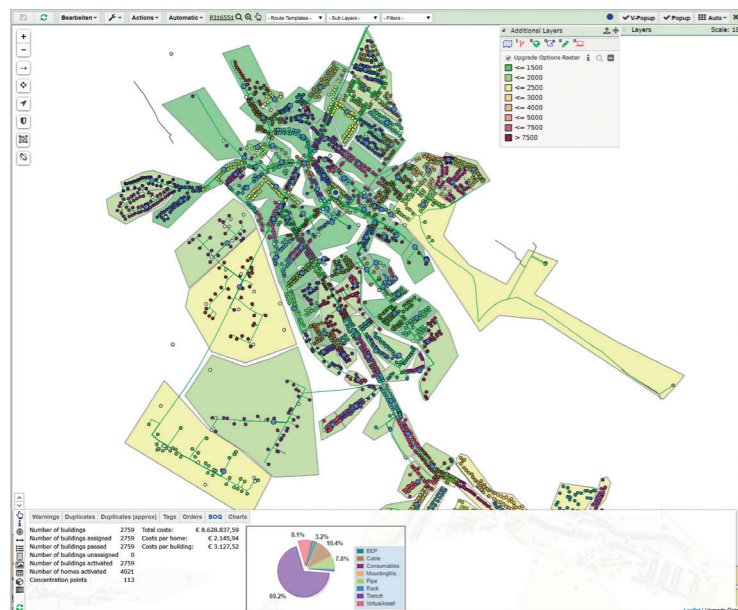
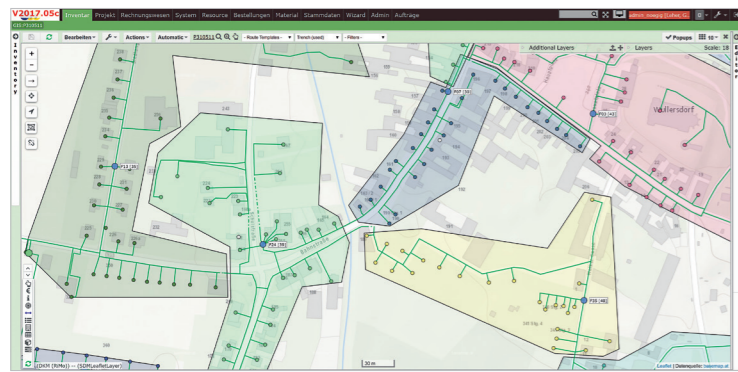
Because of its consistent concept and its high degree of adaptability, combined with the user-friendly and full-featured interface, the user can work independently and with high efficiency right from the start.

Agility

Both we and our customers are of the opinion that nothing is more unproductive than knowing the right procedure, but using an alternative solution for months or longer, until the ideal solution can be implemented in the used tool. Therefore our SaaS-model has up to 12 releases a year.



FTTx 4.0 the perfect interaction of automatization, project management, ERP, logistics and operation



First step: The draft – or capacity planning

This step begins with the requirement, the actual state or rather its data transfer into RiMo. Imported or directly recorded is the building data (position, number of accommodation units etc.). Furthermore existing networks and possible routes.

Specific customer targets will be defined in planning rules (e.g. fiber concepts, number of supplied homes per FCPs).

Just a few clicks later, a capacity plan is created from this input by automatic planning. Even at this early stage, all documents like duct and cable plans, BOQ etc. are already available.

From that moment all users work with and on the same data within the same tool: RiMo ONE VIEW, ONE TRUTH

Therefore, all users have the same view on the data (according to their authorizations) in real-time. The network owner always has full access to all changes of the network.

This offers the possibility to concentrate on the fundamental tasks, such as strategy and financial controlling.

Expansion planning

Expansion planning differs from client to client, but always follows the same goal: the specification of priority, or rather the chronological order of the network expansion. In this planning stage, all requirements from different sources will be overlapped to determine the optimal use of material (budget). Here, RiMo assists with visualization and editing (area optimization, broadband supply, eligibility etc.).

Demand aggregation – or where the business is:

Planning an optimized and cost efficient network and detecting the regions where to deploy at minimum cost is not enough.

For a valid and future-proof business case you have to deploy the net where the end customers will connect.

This can only be reached by integrating end-customers and municipalities as early as possible in strategic expansion planning.

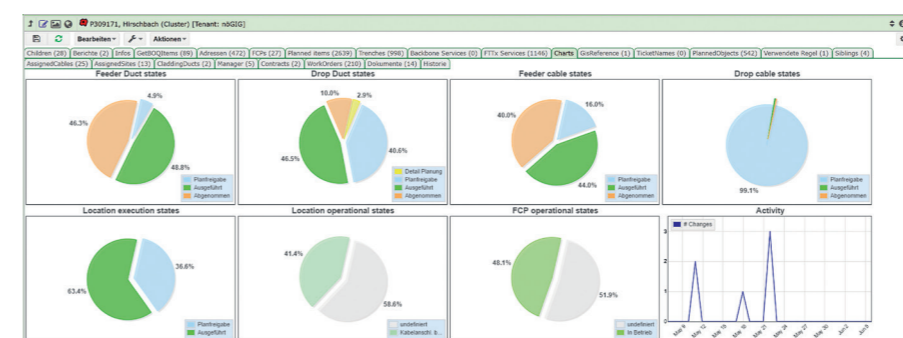
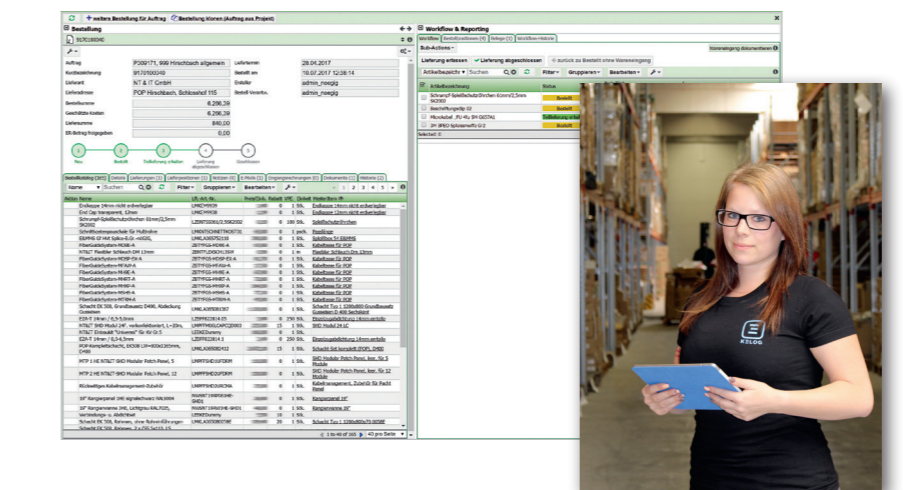
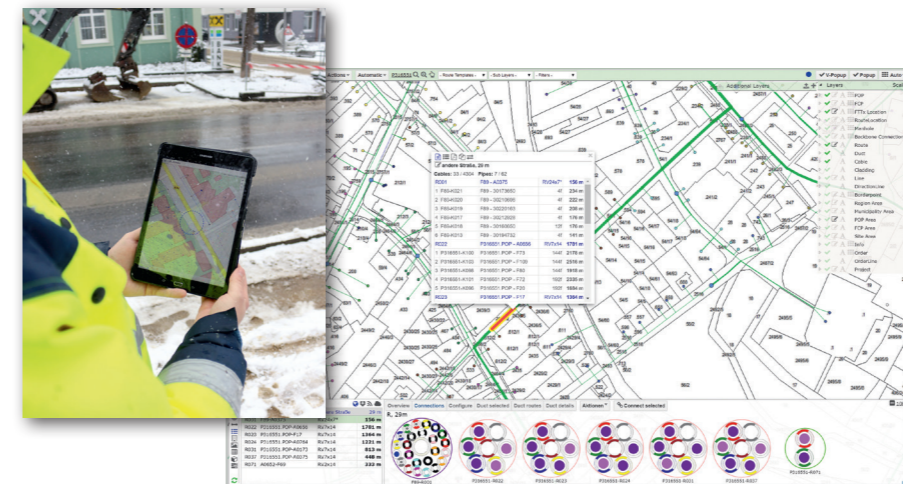
RiMo supports with the ability to interact with end-customers and municipalities at a very early stage of decision-making.

Expansion projects & Co-installation

The results of expansion planning are expansion projects (areas which are built physically). The start of project management and processing.

This includes the commissioning of detail planning, the construction companies, the surveyors and the respective milestone-planning and material order.

To be able to use synergies and reduce costs all co – installation-projects in the same region can be tracked.



noe gig Auftrag zur Anschlussherstellung 5C515P

Spielsplan FCP: F18

Rohr A	Col	Cable A	Col	Spl. Cable Z	Col	Rohr Z	Col	Adresse	Service
R1181	F18-K001	1	F18-K001	1	R003	1	Adressstr. 15, Waidenstedt	10027	
R1182	F18-K002	2	F18-K002	2	R003	2	Adressstr. 15, Waidenstedt	10028	
R1183	F18-K003	3	F18-K003	3	R003	3	Adressstr. 15, Waidenstedt	10029	
R1184	F18-K004	4	F18-K004	4	R003	4	Adressstr. 15, Waidenstedt	10030	
R1185	F18-K005	5	F18-K005	5	R003	5	Adressstr. 14, Waidenstedt	10031	
R1186	F18-K006	6	F18-K006	6	R003	6	Adressstr. 14, Waidenstedt	10032	
R1187	F18-K007	7	F18-K007	7	R003	7	Adressstr. 14, Waidenstedt	10033	
R1188	F18-K008	8	F18-K008	8	R003	8	Adressstr. 14, Waidenstedt	10034	

Spielsplan HAK:

Rohr A	Col	Cable A	Col	Spl. Cable Z	Col	Rohr Z	Col	Adresse	Service
R014	F18-K001	1	F18-K001	1	Monstrabst_#1	1	Adressstr. 14, Waidenstedt	10035	
R014	F18-K002	2	F18-K002	2	Monstrabst_#2	2	Adressstr. 14, Waidenstedt	10036	
R014	F18-K003	3	F18-K003	3	Monstrabst_#3	3	Adressstr. 14, Waidenstedt	10037	
R014	F18-K004	4	F18-K004	4	Monstrabst_#4	4	Adressstr. 14, Waidenstedt	10038	

Durchführung:

Form	Name	Telefonnummer	Email

Fotos: FCP HAK TU Messung

Rack	Frame	Panel	Port	Type	Home	FTU	Nr	Type	Länge	db	Service
R011	B	MBS	4	LC/APC	3001786-01	G0005-01	1	SC/APC			G0028
					3001786-01	G0006-01	2	SC/APC			10032A

Sonstiges:

Datum: Unterschrift:

Detail planning – site survey

Before orders are placed and the commissioning for pipe- and trench- construction is carried out, the data has to be improved. Exact positioning of routes, fiber distributors, PoP, house connections and, if required, adjustment of number of flats in buildings).

This planning stage is supported by automatic functions and APPs, which can be used in the field too.

Logistics & material management

The base for the material requirements is the planning (BOQ), which is the input for the next steps. In logistics, orders related to the construction site are possible, as well as orders from central logistic warehouses.

RiMo offers material management functions for receipt of goods, commissioning, collecting, delivery, order proposal up to invoice approval.

Project management & controlling

Most of the costs will already be determined by strategy and planning, but in the stage “build”/“rollout” these actually occur. The Controlling ensures the compliance of costs and dates and is the basis for communication with the investor and subscribers, who want to be up-to-date concerning the construction and rollout progress.

Network surveying

RiMo can assist during network surveying, and in particular during data transfer back into RiMo.

Operation, manufacturing, connection management

In most cases an FTTx-duct-network is built completely including all of its components (feeder- and drop-area).

Usually the cable-net will be built up to the FCP. The separate house and accommodation units will be connected after order by the end customer.

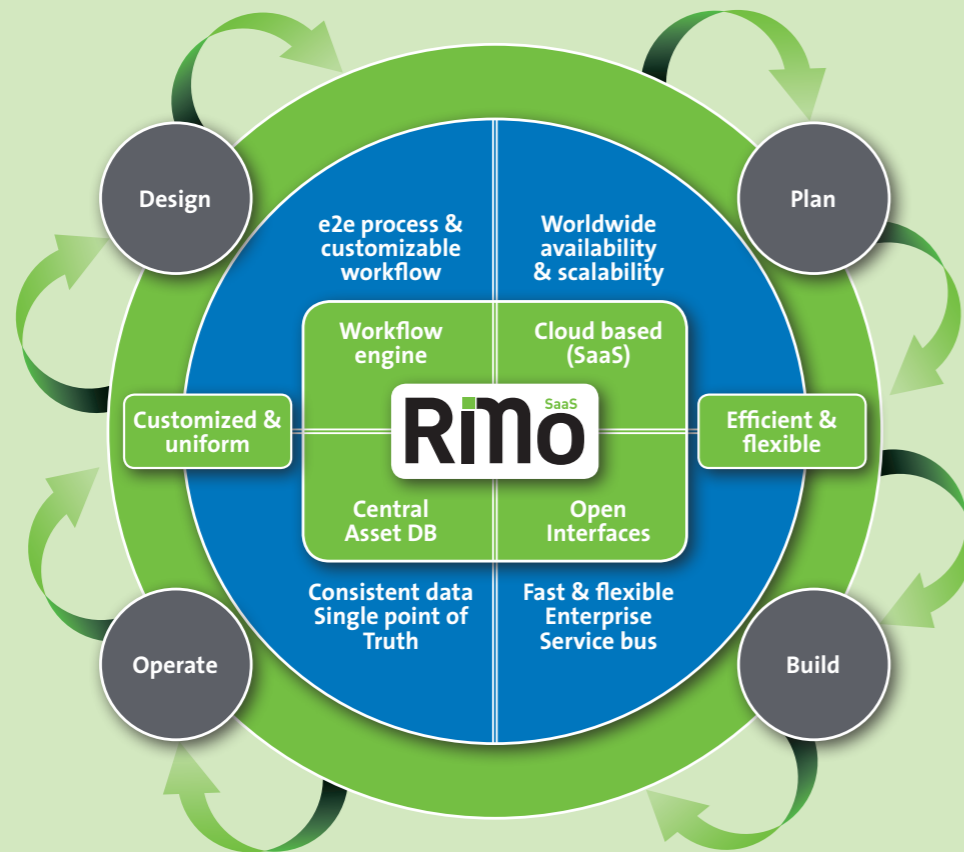
The customer center and the technician are supported by RiMo: Creating and administration of orders, automatic allocation of fibers and services, order processing and documentation.

One product for all phases

From the beginning, RiMo was designed for maximizing productivity and efficiency. This is achieved by integration of an object-oriented state-of-the-art database, an integrated workflow-engine, an open enterprise service bus to a fully web-based solution.

With a complete set of network management functions like automatic high-level & detailed design, BOQ, order & project management, Logistics, reporting & controlling, incident & workforce management combined with the possibility to control processes with workflows, all phases of the network life-cycle are fully covered.

The monitoring dashboards give the user full control over the network.



Consistency

The disadvantage of separated solutions (apart from data duplication and complex interfaces) is a loss of control and knowledge of the current status.

RiMo consistently builds on data evolution. Similar to open-data-projects, every authorized user adds his input (depending on his role) to improve and complete the data in the inventory. Each preceding action and information is available for each subsequent user (according to his authorizations).

The whole is more than the sum of its parts!

Flexible interfaces

By integrating external data and building interfaces to external systems, the range of functions and therefore the benefits of RiMo are significantly improved (e.g. integration of external maps, GIS-, Billing- and CRM-systems).

Documentation shall be mentioned here for the sake of completeness; this complex and expensive process does not exist in RiMo. The classical process of documentation involves the description of a situation and passing on this information to the customer, who then transfers it into its documentation system. This step is unnecessary when all participants are already working with the same system/solution.

Rollout and digitalization in the field

RiMo follows the principle: "Data should be digitized where it accrues". Using this approach, the additional effort for documentation and information distribution will decrease. Additional errors are easier to find and avoid.

Fitting to each role and function RiMo offers the respective access, views and tools – WEB and APP.

The RiMo Field Force APP gives the construction managers the possibility of "In field" documentation, progress confirmation, uploading photos or Red lining directly with their mobile phone or tablet. Therefore the number of errors and effort for documentation and reporting is minimized.

The receiving and transfer of materials/goods can be accomplished by App as well. This again helps to streamline the logistic and accounting process.

Obviously, offline-media like printed plans/maps, orders etc. are available, but when the operational companies are directly integrated, a lot of overhead in documentation and transport of information can be saved. Not only time and money, but also queries and clarifications.



Operations, troubleshooting and fault resolution

RiMo's modul "Incident Management and Ticketing" supports the full incident management process from recording to resolution, including displaying and transferring of the relevant technical data if desired.

To completely fulfill common network-operation needs, RiMo can cover workforce management, dispatching, sparepart handling and SLA management as well.

WE CREATE CONNECTIONS



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