SISCOG

SISCOG at Innotrans 2022 with solutions for efficiency and sustainability

Presenting new features in decision support software that empowers transport operators to better deal with resource shortages, staff preferences and passenger demand

30/08/2022 - SISCOG, a software company specialised in solutions for optimised resource scheduling, management and dispatching for public transport operators, will once again be part of the leading trade fair for transport technology. New products and features will be showcased at SISCOG's stand # 270 in hall 6.1. on September 20-23 at Innotrans in Berlin.

The SISCOG Suite has a proven track record for supporting rail and metro operators worldwide in optimising the use of their main resources, keeping on adding new, more enhanced and advanced features that help address current concerns in areas such as energy constraints, driver shortages, operation efficiency, profitability, and new passenger flow realities.

Conciliating happy staff with profitable operations | At Innotrans we will showcase how to retain and have more satisfied staff, while running at the same time a more efficient and labour rules compliant operation, through the optimisation of work duties and rosters where satisfaction of individual preferences and fairness is maximised. Another novelty is the enhancement of staff planning capabilities thanks to an absenteeism prediction tool. These optimisers and forecasting tool use Data Science and Artificial Intelligence (AI) to achieve smarter and more data-driven solutions and decisions.

Passenger satisfaction is pivotal | The happiness of transport workforce is pivotal to a successful transport operation, as is the satisfaction of passengers towards the transport offer that better serves their needs. To that end, we will be presenting a new train delay simulation and a capacity planner tool. Our train delay simulation tool shows how the simulating of train delays is possible, in a realistic way and with a set of insightful statistics and KPIs, such as the total number of delayed train arrivals and lost passenger connections. With the shifts in passenger needs and flow through the transport network, the capacity planner module will compute the overall transportation capacity needed in terms of vehicles and staff to meet different scenarios of transportation demand and business rules.

Empowering the users towards optimisation | As a company focused on optimisation and on empowering the users of its tools, on display at SISCOG's stand will also be the new network editor and rules editor, for the definition of the network and of labour rules, respectively. As well as a new parameter optimisation tool, based on Machine Learning and other techniques, that gives support in choosing the best optimiser

parameter setup for a specific staff scheduling problem, as well as in automatically fine-tuning the optimiser to achieve the best possible performance for that same problem.

New product RAILNODE | Last, but not least, SISCOG will launch at Innotrans its new product – RAILNODE. Equipped with an AI-based optimiser, this software solution addresses the scheduling and management of local movements in stations, parks and shunting yards, essential to ensure that train timetables and vehicle schedules are carried out as intended with the least energy consumption. It interacts with ONTIME and FLEET in an integrated way, as does the whole SISCOG Suite.

SISCOG provides cutting-edge decision support software solutions for optimised resource scheduling, management and dispatching in public transport. Incorporating more than 35 years of specialised knowledge and using a combination of Artificial Intelligence and Operations Research techniques, the SISCOG Suite addresses these companies' need to offer their passengers/clients the best service while being efficient and sustainable in the use of their most important operational resources – time and space (timetables), vehicles, and staff.
The SISCOG Suite is composed by ONTIME, for creating and updating timetables, FLEET, for scheduling and managing vehicles, RAILNODE, for scheduling and managing local resources, and CREWS, for scheduling and managing staff.
Amongst its clients are renowned companies, such as the Canadian, Danish, Dutch, Finnish, and Norwegian railways, the Suburban Trains of Copenhagen and of Barcelona, freight railway Medway, the Lisbon Metro and London Underground.
More information at www.siscog.pt. Follow us on LinkedIn | Instagram | Facebook

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Press contact: Natalina Magro | T. +351 217 529 100 | natalina.magro@siscog.pt