



HASTUS

BE INSPIRED BY THE HASTUS COMMUNITY

HASTUS INTERNATIONAL USER GROUP 2022

Sept. 28–30 in Pittsburgh, PA, USA

G:RO

DRIVEN
BY
EFFICIENCY

BACK IN PERSON TO SHARE HASTUS SKILLS AND EXPERTISE

It's time to bring HASTUS users from around the world together again. Time to connect with each other, keep up with industry trends, and learn what's new in HASTUS.

Join us in Pittsburgh on Sept. 28–30.
We can't wait to see you!

PRELIMINARY PROGRAM AT A GLANCE

We're lining up a broad range of sessions with presentations by experts from GIRO and agencies like yours. Whatever your level of HASTUS expertise, you're sure to find plenty to interest you.

LEGEND

Interdisciplinary

Planning

Scheduling

Operations

Rail

Technology

Tools

Visit

WEDNESDAY

	7:00–9:00	Registration		
AM	9:00–10:30	G.1		
	11:00–12:00	O.1	S.1	T.1
Lunch	12:00–13:30	Lunch		
	13:30–14:30	G.2	S.2	O.2 / R.1
PM	14:45–15:45	G.3	R.2	E.1
	16:00–17:00	G.4		

THURSDAY

AM	9:00–10:15	P.1	O.3	E.2
	10:45–11:45	S.3	O.4	P.2 / T.2
Lunch	11:45–13:15	Lunch		
	13:15–14:15	R.3	P.3 / S.4	G.5
PM	14:30–15:30	S.5	R.4	P.4 / O.5
	15:45–16:45	S.6	O.6	G.6
	18:00	Banquet		

FRIDAY

	9:15–12:00	V.1		
AM	9:15–10:15	O.7	P.5	S.7
	10:45–12:00	E.3	G.7	
Lunch	12:00–13:30	Lunch		
PM	13:30–15:00	G.8		



2022 SESSIONS

INTERDISCIPLINARY

G.1	Wednesday 9:00–10:30	Words of welcome, presentations by clients, and what's new at GIRO	This session brings everyone together with words of welcome from GIRO and our host, PAAC. You'll see presentations from fellow HASTUS users on their special HASTUS projects and hot topics for public transport, and we'll share the latest news from GIRO.
G.2	Wednesday 13:30–14:30	AI and HASTUS algorithms	Hear about the latest enhancements to HASTUS algorithms and how they integrate AI/Deep Learning techniques.
G.3	Wednesday 14:45–15:45	E-bus challenges and opportunities	Discover how agencies like yours are transitioning to electric buses and dealing with their impacts throughout the organization. Hear about their successes and challenges, exciting new technologies, and change-management strategies.
G.4	Wednesday 16:00–17:00	Meet and greet	Come and meet the GIRO team to socialize, ask questions, and share your feedback. We'll all be looking forward to talking with you!
G.5	Thursday 13:15–14:15	Coping with the workforce shortage	Operator recruitment and retention were already getting harder and the pandemic hasn't helped. Come and share the strategies that you're considering or have already put in place to meet this challenge.
G.6	Thursday 15:45–16:45	Lessons learned from fast-track projects and iterative deliveries	Learn how HASTUS users like you have benefited from innovative fast-track and iterative-delivery approaches to their projects to improve delivery quality and speed. You'll also see how the recent advancements in remote technology are helping put these benefits within everyone's reach.
G.7	Friday 10:45–12:00	What's coming up in HASTUS	Discover what's coming up in HASTUS in the next few years. We'll share our vision and discuss your priorities. We'd love to get your feedback and to know if there are any developments you'd like to collaborate on.
G.8	Friday 13:30–15:00	Closing remarks and plenary session	



PLANNING

P.1	Thursday 9:00–10:15	Evaluating Pittsburgh's BRT and redesigning Cincinnati's network with NetPlan	<p>Whether you're a planner, scheduler, IT expert or dispatcher, you might be wondering about NetPlan: is it as easy as we say it is?</p> <p>Come see for yourself! We'll let you see how quickly you can create a new network concept and evaluate its cost and impact on passengers.</p> <p>And if you're a planner who already uses NetPlan, come and help out your fellow users; you might even learn a few new tricks!</p>
P.2	Thursday 10:45–11:45	Beyond Title 6: How KCMs planners strive towards equity	<p>In the USA, the equity (Title 6) impact of proposed changes has been calculated in a standardized way for decades. Based mostly on quantifying trips and service-hours, this method has many shortcomings. For example, it would mean that canceling a route in a disadvantaged area that doesn't actually take people to their preferred destinations, and replacing it by a route with less frequency that takes them where they want to go, would be seen as disadvantaging the community, when in fact it does the opposite.</p> <p>Learn how how KCM's planners are combining community outreach with data-based measures to strive towards equity when evaluating network changes, and how they share results of these studies with stakeholders using maps and other simple visuals.</p>
P.3 S.4	Thursday 13:15–14:15	Transitioning from planning to scheduling	<p>How do you transition from planning to scheduling? What level of detail do planners go into when designing a project? How do they evaluate costs? How do they pass their work on to schedulers when the project is approved and must be put in production?</p> <p>Whether you use NetPlan or other tools, we (and your fellow HASTUS users) would love to hear how all this works in your agency, or how it is coordinated between the authority and the operators. Listen to presentations from other users and join in by sharing your own tips and challenges.</p>
P.4	Thursday 14:30–15:30	NetPlan in action: agencies share their experiences	<p>Find out from agencies like yours what they've been doing with NetPlan. Learn from real-life examples how NetPlan can help achieve your goals, from everyday planning work to designing, evaluating and optimizing different network scenarios.</p>
P.5	Friday 9:15–10:15	How to evaluate and communicate the impacts of a project on riders	<p>Discover how, based on an origin-destination matrix, you can compare passengers' journeys on the current and planned networks to evaluate and communicate how the proposed changes will affect them.</p> <p>Also learn how GIRO and exo partnered to develop a multimodal customer-impact simulator to assess how park-and-ride usage will change with the arrival of a new light rail service.</p>



SCHEDULING

S.1	Wednesday 11:00–12:00	Creating, analyzing and comparing multiple vehicle- and crew-schedule options	<p>We'll take you through the process of creating different scenarios based on your objectives – such as driver satisfaction, service efficiency and robustness – and you'll see exciting new tools that allow you to compare scenarios, using your KPIs.</p> <p>We'll also have a broader discussion on KPIs, how they can help you monitor efficiency through time, and the advantages and limits of using KPIs for benchmarking with your peers.</p>
S.2	Wednesday 13:30–14:30	Taking detours in your stride	<p>Roadworks seem to pop up everywhere, with serious impacts on your planned bus service – and customer satisfaction. Learn how HASTUS can help you to provide precise, up-to-date information and analytics about detours for customers, drivers and external systems.</p>
S.3	Thursday 10:45–11:45	Writing rules that mean what you want... and making sure they're OK before hitting "Optimize"!	<p>HASTUS gives you great flexibility to define rules. Even so, CrewOpt and MinBus users know that it can be tricky to model rules that do the right thing and are efficient for the algorithms. And once a rule is written, do you have to wait for CrewOpt to run to make sure it's OK?</p> <p>We'll take a half-instructional, half-quizz-show, 100% fun approach to show you the right way to write rules, how to validate them before running CrewOpt, and what's coming soon to make it all even easier.</p>
S.4 P.3	Thursday 13:15–14:15	Transitioning from planning to scheduling	<p>How do you transition from planning to scheduling? What level of detail do planners go into when designing a project? How do they evaluate costs? How do they pass their work on to schedulers when the project is approved and must be put in production?</p> <p>Whether you use NetPlan or other tools, we (and your fellow HASTUS users) would love to hear how all this works in your agency, or how it is coordinated between the authority and the operators. Listen to presentations from other users and join in by sharing your own tips and challenges.</p>
S.5	Thursday 14:30–15:30	Scheduling strategies to handle frequent service changes and operator shortages	<p>More and more, the traditional 4-month-booking is giving way to more frequent, or ongoing, schedule changes. This tendency, and the current operator shortage, are intensified by the COVID situation.</p> <p>We'll explore the different strategies that you can put in place at the timetabling and scheduling level to respond to these new realities.</p>
S.6	Thursday 15:45–16:45	Poor on-time performance: where is my problem?	<p>When you see poor on-time performance on a route, are you tempted to go straight to ATP to review your run times? Poorly defined run times might not be the problem. We'll show you different tools – including dashboards, Rider and ATP – that you can use to get a better understanding of your reliability issues and zero in on solutions.</p> <p>You'll also learn how HASTUS uses AI and historical data available in ATP to help you evaluate and improve your vehicle schedules to promote on-time performance.</p>
S.7	Friday 9:15–10:15	Scheduling for e-buses	<p>Electric fleets are bringing a range of new challenges: you need to handle limited autonomy, charger location and availability, and much more. HASTUS algorithms are now taking charging and other e-bus constraints into account to optimize vehicle and crew schedules. Come and see how!</p>



OPERATIONS

O.1	Wednesday 11:00–12:00	Navigating smoothly through the day of operations with DispatchAssistant	Discover the latest features in DispatchAssistant, to manage drivers on the day of operations with a new Web-based user interface.
O.2 R.1	Wednesday 13:30–14:30	Web bidding: Engaging employees in process changes	Discover how some agencies successfully managed bid-process changes and how HASTUS and BidWeb can help every step of the way.
O.3	Thursday 9:00–10:15	Next-generation mixed-fleet yard management	Get acquainted with the upcoming Web-based user interface for YardAssistant. You'll also discover how PlanBus can optimize vehicle assignments for garages with constraints and with e-bus fleets.
O.4	Thursday 10:45–11:45	Bidding/picking: how BidWeb handles all your processes	With actual implementation examples, learn how Bid and BidWeb help you handle all your pick processes: cafeteria or roster-style, system picks, division picks, annual vacations, hybrid bidding, etc.
O.5	Thursday 14:30–15:30	New features and innovative approaches for the whole driver-assignment cycle	From planning to the day of operations, driver assignments involve a series of processes: assigning off-days first, considering employee preferences or not, assigning reserve/extra drivers, and so on. Discover how we improved DailyCrew to make your processes smoother, and how some agencies are optimizing assignments with PlanCrew. We'll also show you the positive impact this can have on recruitment and retention.
O.6	Thursday 15:45–16:45	Improving workforce management thanks to absenteeism data	We'll share ways to manage the workforce and absenteeism in different markets, from planning to operations, and we'd love to hear your own experiences. You'll also learn how researchers at MIT used historical data to improve absenteeism predictions.
O.7	Friday 9:15–10:15	Interactive tools to involve drivers in operations management	Discover tools that let you involve drivers and increase employee satisfaction while streamlining and optimizing daily-operations processes.



RAIL

R.1 O.2	Wednesday 13:30–14:30	Web bidding: Engaging employees in process changes	Discover how some agencies successfully managed bid-process changes and how HASTUS and BidWeb can help every step of the way.
R.2	Wednesday 14:45–15:45	Coping with timetable changes, scheduled or not	Timetable changes are inevitable – even business as usual – in rail. Join this session to learn about the different tools available to manage planned and unplanned changes.
R.3	Thursday 13:15–14:15	Discussing the latest trends in rail	What’s ahead for rail? Join the discussion of technology breakthroughs, such as predictive maintenance or motive-power alternatives (battery, hydrogen), and recent challenges – including a workforce shortage and declining passenger demand – that could shape the future of rail.
R.4	Thursday 14:30–15:30	Using the power of algorithms to meet fluctuating demand	Learn all about rail-oriented algorithms that can help you optimize your rolling stock and crew schedules, while taking into account network constraints, passenger demand, yard capacities, vehicle requirements and many other HR and operational rules.

TECHNOLOGY

T.1	Wednesday 11:00–12:00	Adopting DevOps for faster deliveries and upgrades – Part I	This is the first of two sessions on DevOps, a set of practices GIRO is adopting to shorten the HASTUS development life cycle and deliver high-quality software continuously. In this session, we’ll explore the latest advancements in the four first steps of DevOps: Product Roadmap; Secure Software Development with Cloud and Web Technologies; Software Quality; and Continuous Integration.
T.2	Thursday 10:45–11:45	Adopting DevOps for faster deliveries and upgrades – Part II	This is the second of two sessions on DevOps, a set of practices GIRO is adopting to shorten the HASTUS development life cycle and deliver high-quality software continuously. In this session, we’ll explore the latest advancements in the four last steps of DevOps: Continuous Deliveries; Secure Software Configuration; Observability; and Feedback.



TOOLS

E.1

Wednesday
14:45–15:45

Configuring preset environments and building powerful attributes, statistics and object group builders

Learn how to configure preset environments and build powerful attributes, statistics and object group builders to help users get the most out of HASTUS.

This presentation requires basic knowledge of object relations, so if you need to brush up on the basics, check out the User Group portal for the training video to be ready to get the full benefit of this session.

E.2

Thursday
9:00–10:15

Cool tools in HASTUS? It's time to get to know them!

Maybe when using HASTUS you've thought, "If only I could save this exact view for later use," or "I wish I could choose the statistics to display in the statistics panel; do I need to be an IT expert to do that?"

No matter what level of IT expertise you have, HASTUS is full of cool tools to help you get the most out of the software. Come and explore them in this session. You'll be glad you did!

E.3

Friday
10:45–12:00

Combining your OIG and Excel skills to create insightful reports

Learn to generate rich and insightful reports with a minimum of effort when you leverage your OIG and Excel skills to export data. We'll include real-life examples in this instructive session.

VISIT

V.1

Friday
9:15–12:00

Technical visit



REGISTRATION INFORMATION

USER GROUP ATTENDANCE

Rates	<p>Standard rate: US\$995</p> <p>Includes User Group attendance, lunch from Wednesday to Friday, the cocktails and banquet.</p> <p>When you register, an electronic invoice including payment instructions will be sent to you automatically.</p>
Guest at banquet	US\$200
Cancellation policy	<p>You may cancel your registration until August 5. If cancellation is received after this date, a US\$250 service fee will apply.</p> <p>Refunds will not be issued on cancellations received after August 19. If you cancel later or do not attend, you will be charged the full registration fee.</p>
Special requests/ Registration changes	For any special request, allergy notification, change or substitution, please contact our Events Manager at hastus.ug@giro.ca

HOTEL BOOKING

**Wyndham Grand
Pittsburgh Downtown
600 Commonwealth Place
Pittsburgh, PA 15222**

The **Wyndham Grand Pittsburgh Downtown** is the HASTUS International User Group hotel. The hotel has set aside a block of rooms at special conference rates. As space is limited, please reserve your hotel room as soon as possible.

Standard room (single or double occupancy): US\$159
Full American breakfast: US\$36/person
Prices above do not include taxes nor service.

Please note that a credit card number is required to confirm your hotel reservation and that you will receive your hotel confirmation later on. Any guaranteed reservation not cancelled by 4PM the date of arrival will be subject to one night room and tax cancellation fees. Hotel reservation has to be made through GIRO when registering for the HASTUS International User Group.



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