



17<sup>th</sup> International Conference on Walking and Liveable Communities WALK21, Calgary 2017

*Pre-conference Workshop (program version 2017-09-15)*

***Measuring Walking (part VIII): Big data also for walking?  
How to better understand travel and pedestrian behaviour with new technologies***

Tuesday, 19 September 2017, 9.00 - 17.00, Hotel Arts, room Spectrum 2

Join individuals passionate about the measurement and sharing of walking data for an engaging workshop on how the advances in Big Data and analytics can be leveraged for positive changes to policy and the built environment. Building from the work completed by Walk21 for the International Walking Data Standard and past pre-conference workshops on Measuring Walking, we will discuss how to better understand travel and pedestrian behaviour with new technologies. We will also debate ideas, challenges and solutions for comparable data across different cultural/environmental contexts.

After having adopted the International Walking Data Standard we will debate how we can implement it further and we will find out, if there is a desire or need to develop other standards as well to further harmonise monitoring methods of walking and public space as agreed at the Walk21 conference in Melbourne 2006.

In the centre of this year's workshop will be four roundtables. They each have a different focus on technologies and the main question "is big data also good for walking?" The roundtable topics are:

- Capture travel survey data with new technologies
- Pedestrian routing/tracking technologies within limited areas
- Pedestrian modelling and forecasting techniques
- Pedestrian networks

The idea of each roundtable debate is to create an understanding where the state-of-the-art with these technologies is, what further improvements are needed and how the resulting data can be used to improve the situation for pedestrians. The roundtables shall also be brainstorming and experience-exchange hubs in order to see what needs further in-depth debate at one of the next Walk21 conferences.

Everyone is welcome to the workshop. You can also easily join if you have not attended a pre-conference workshop on measuring walking before. If you would like to actively contribute with a small presentation (max. 5 mins.), please let us know at least a month in advance. Thank you!

See also our website for background and more details: [www.measuring-walking.org](http://www.measuring-walking.org)

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*Workshop jointly organised by the Measuring Walking team:*

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*Ryan Martinson, Sustainable Transportation Specialist, Stantec, Calgary, Canada [ryan.martinson@stantec.com](mailto:ryan.martinson@stantec.com)*

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<b>8:30</b>	<b>Arrival of participants</b>	
<b>9:00</b>	<b>Welcome and introduction, objectives of the day</b>	
	<ul style="list-style-type: none"> <li>Welcome and round of introduction</li> <li>History, context and goals of the workshop series</li> </ul>	Ryan Martinson & Daniel Sauter
<b>9:20</b>	<b>International Walking Data Standard</b>	
	<ul style="list-style-type: none"> <li>New developments; Guidelines on the treatment of walking in travel surveys, next steps</li> <li>Discussion, input by the participants</li> </ul>	Martin Wedderburn, Daniel Sauter All
<b>9:45</b>	<b>Input from Calgary</b>	
	<ul style="list-style-type: none"> <li>City of Calgary Walking Data: Methods and Alignment with the International Data Standard</li> <li>Walking behaviour and the built form</li> <li>Discussion</li> </ul>	Kristina Hill, City of Calgary Francisco Alaniz Uribe, University of Calgary All
<b>10:30</b>	<b>Coffee Break</b>	
<b>11:10</b>	<b>Capture travel survey data with GPS – experiences from Europe</b>	
	<ul style="list-style-type: none"> <li>Measuring walking and more: Some frequently asked questions and answers about smartphone-based travel mode identification</li> <li>Digital travel survey method using smartphones: what can it mean for data on walking?</li> </ul>	Norbert Braendle, Austrian Institute of Technology AIT Anna Clark, Trivector, Sweden
	Tbc: Analysis and Optimization of Pedestrian Flows	Stefan Seer, AIT, Austria
	<b>Roundtable discussion (following presentations)</b>	
	Discussions of following topics on roundtables <ul style="list-style-type: none"> <li>Capture travel survey data with new technologies</li> <li>Pedestrian routing/tracking technologies</li> <li>Pedestrian modelling and forecasting techniques</li> <li>Pedestrian networks</li> </ul>	Moderators of the roundtables Daniel Sauter Francisco Alaniz Uribe Ryan Martinson Martin Wedderburn
<b>12:30</b>	<b>Lunch</b>	
<b>13:45</b>	<b>Roundtable discussion continued</b>	See above
<b>15.15</b>	<b>Collecting conclusions from roundtables</b>	Moderators, All
	<b>Coffee break sometime in between</b>	
<b>16.30</b>	<b>Next steps, conclusions of the day</b>	Daniel Sauter
<b>17:00</b>	<b>End of pre-conference workshop</b>	