**Hawkesbury Nepean Valley**

**Flood Evacuation Model Generation 2.0**

# MEETING INFORMATION

Objective: FEM 2.0 Dashboard Design and Updates

Date: 25 July 2018

Time: 10.00 am – 2.00pm

Location: Data 61 Sydney Office, Eveleigh Business Park

# AGENDA

Description: To show progress and seek inputs

|  |  |  |  |
| --- | --- | --- | --- |
| NO | ITEM | TIME | PRESENTER |
| 1 | Introduction | 10 min | Kam Tara |
| 2 | Dashboard design parameters | 45 min | Mahesh Prakesh |
| 3 | Input and output files management and demo | 30 min | Leorey M |
| 4 | Comparisons of FEM1 and FEM 2 results | 15 min | David Pavey |
| 5 | Lunch | 45 min |  |
| 6 | Interface between Mats and Dashboard | 30 min | Mahesh P. |
| 7 | MATSim updates and works involved | 30 min | Pieter Fourie |
| 8 | Open discussion | 45 min |  |

# MEETING NOTES

Presentations involved showing demonstration of Dashboard and interface as well as power point.

No handouts

Attendees: Peter Cinque (SES), Paul Fuller (INSW), Paul Leonards, Kris Nguyen (RMS), Mahesh Prakash, Leorey Marques, Rajesh Subramanian, Dhirendra Singh (Data 61), Kam Tara, David Pavey (URaP)

All Agenda items were successfully completed

The meeting included the following relevant points:

* FEM 2.0 was explained that includes three main components:

1. MATSim works referred to as MATSim Engine,
2. Dashboard to provide an interface between the user and MATSim engine for input and output files and
3. Visualisation which provides analytical results of multiple scenarios together (comparative assessment similar to pivot table that was produced as part of FEM 1) and visual movements of agents.
4. The above item 1 is developed by MATSim group and items 2 and 3 are Data 61 responsibilities. URaP provides technical support to both MATSim and Data 61 as well as data preparation and analysis.

* The Dashboard interface demonstration highlighted the interaction between data input and simulation runs.
* A comparison of outputs on selected test scenarios between FEM1 and FEM 2 showed similar results. This indicated the validity of the model and its robustness.
* Input files to the model are imported via dashboard.
* Some third part data could be imported direct from other external database (eg hydrograph points).
* MATSim codes for FEM 2 are completely rewritten to facilitate efficient runs including debugging and tests.
* A technical meeting before the end of August is required to further design aspects of Dashboard i.e. multiple scenarios assessments and development of outputs including visualisations.

The meeting closed at 2.32pm