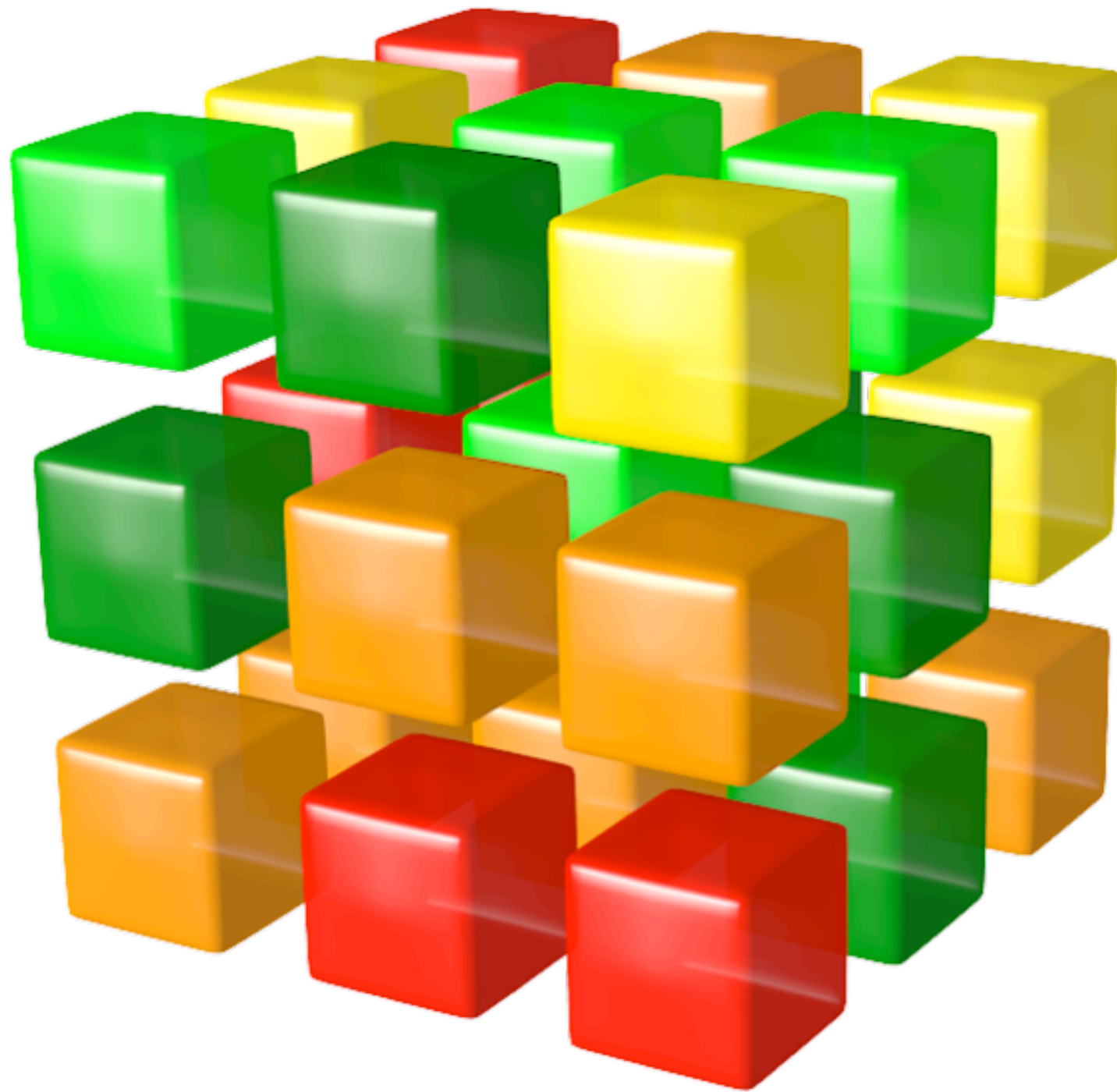

AWARE-P

A collaborative, system-based
IAM planning software

Leading Edge Strategic Asset Management
September 29, 2011

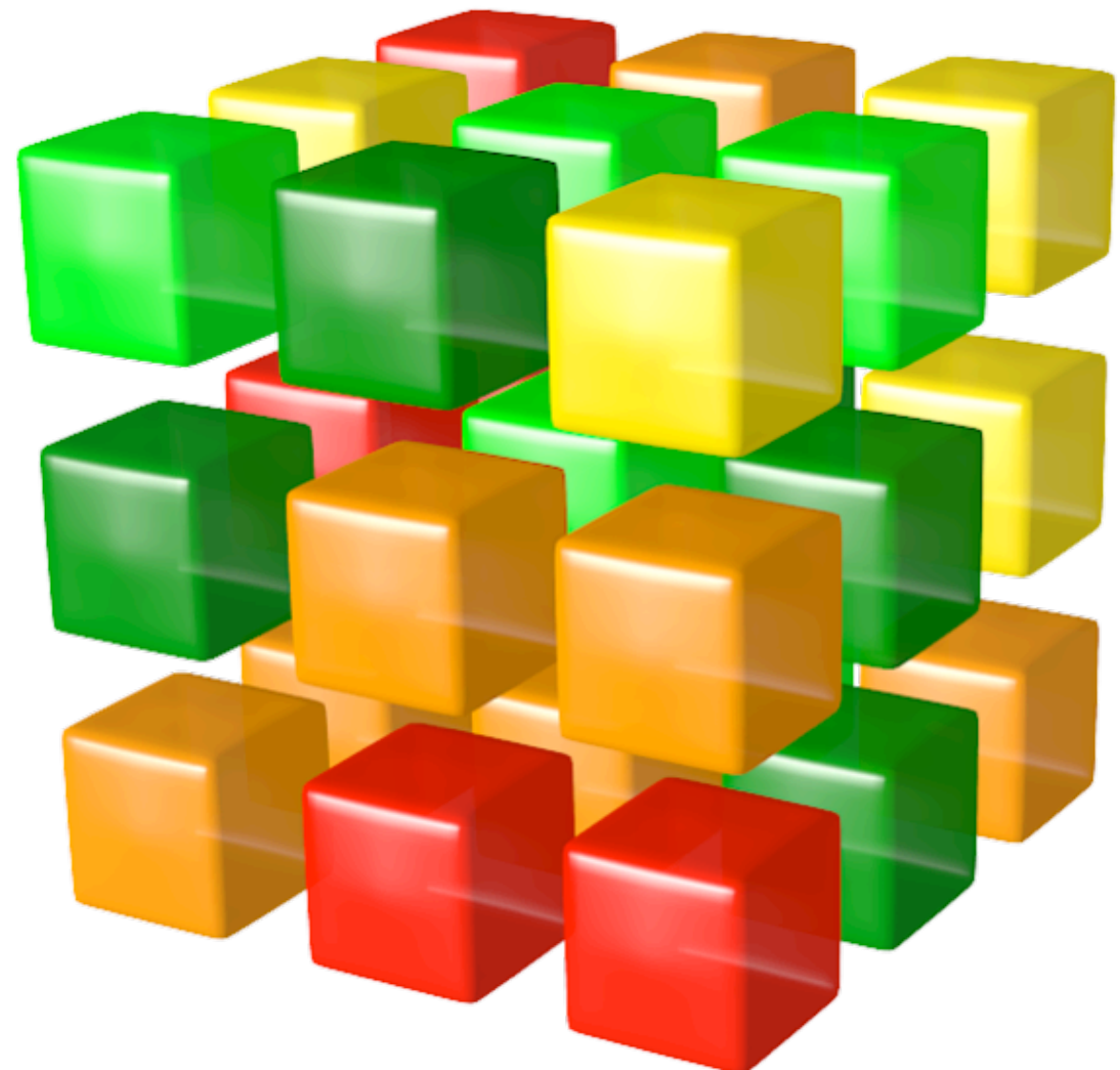
Sérgio Coelho [LNEC] | Diogo Vitorino [Addition]

Planning is not solved by
throwing technology at it



Apparently this is known in Japan as Helena's cube

We have been working
inside it in the
last few months



For AWARE-P, planning involves

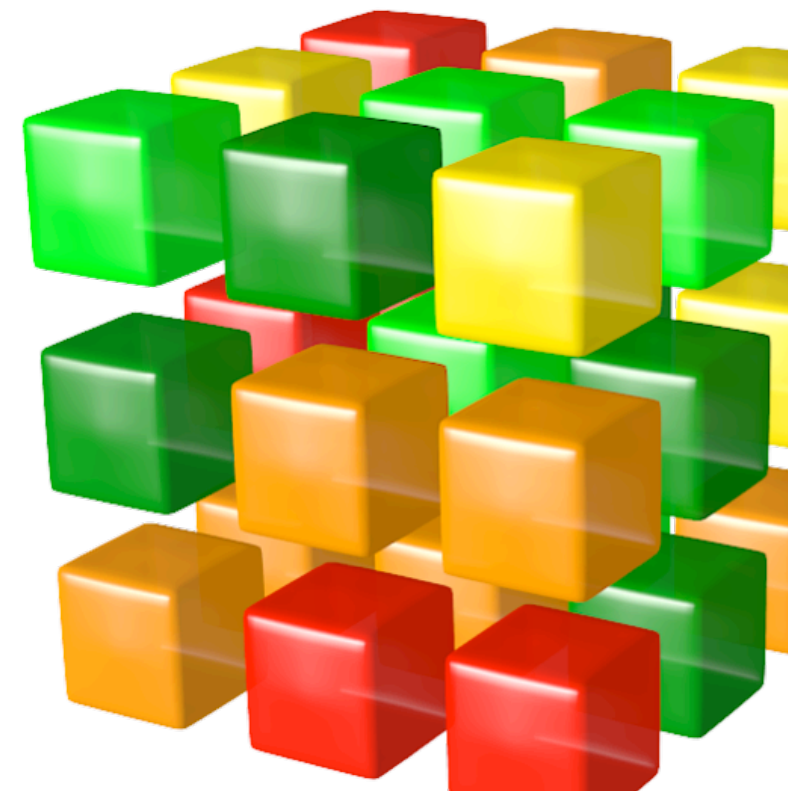
Strategical + Tactical + Operational

views/issues/decision-making

Performance + Risk + Cost

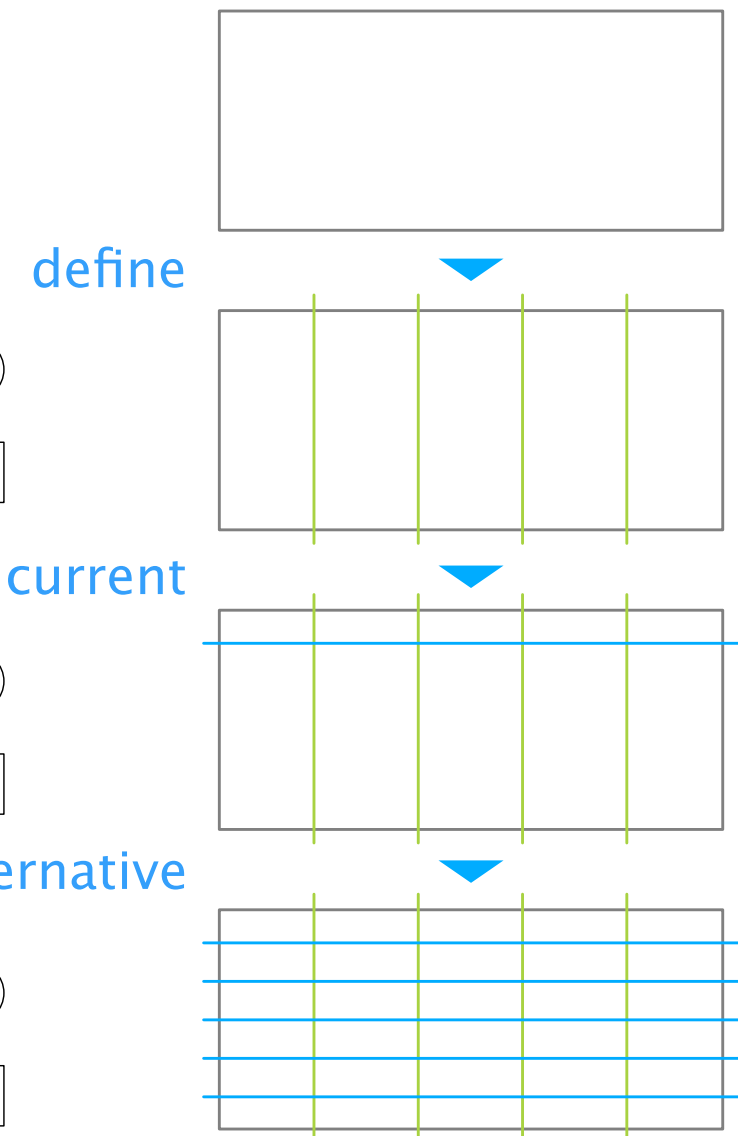
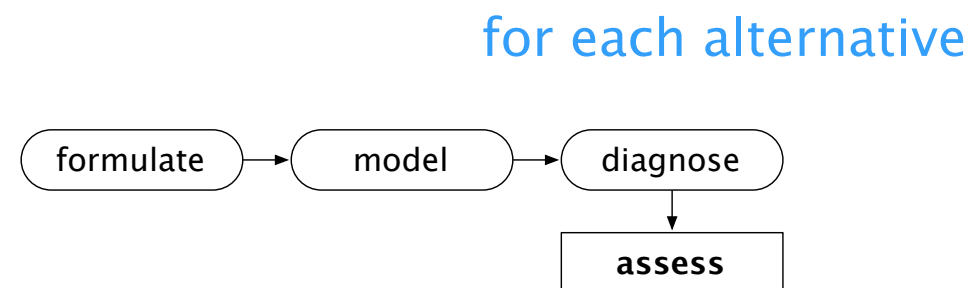
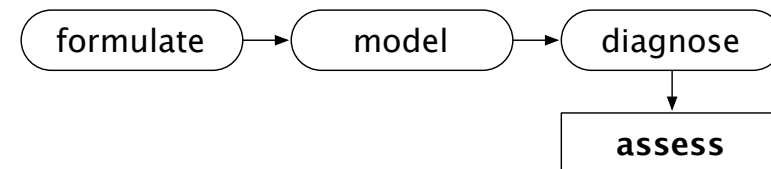
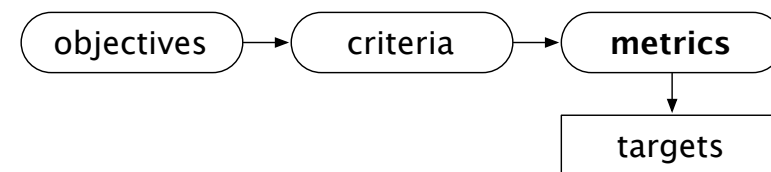
objectives/criteria/assessments

Time horizons + Scenarios + Alternatives



We try to help fill out the grid

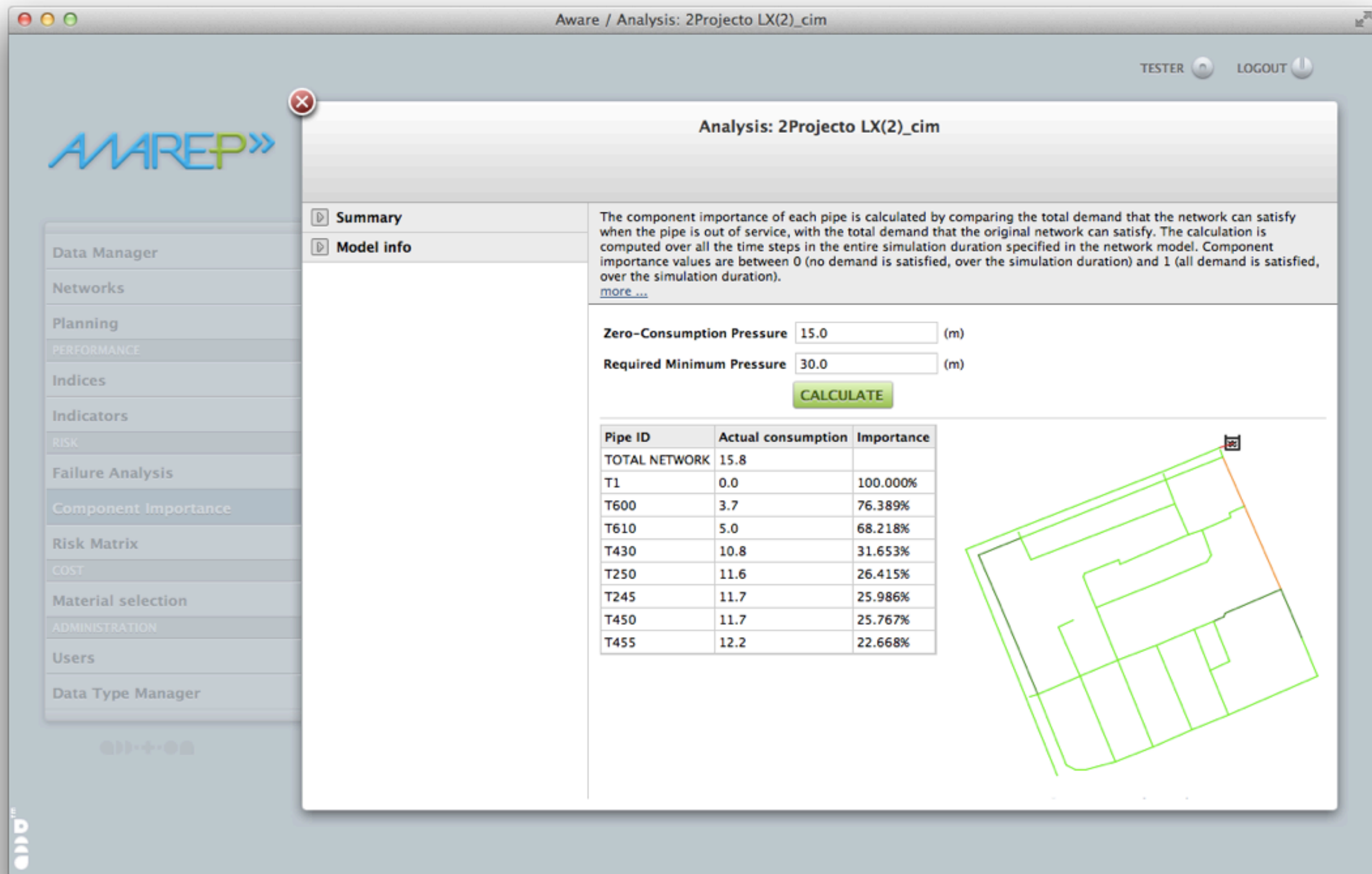
Data Manager
Networks
Planning
PERFORMANCE
Indices
Indicators
RISK
Failure Analysis
Component Importance
Risk Matrix
COST
Tangible cost projection
ADMINISTRATION
Users
Data Type Manager



Let's take a look at it

The screenshot displays the AWAREP» software interface. On the left is a sidebar menu with categories like Data Manager, Networks, Planning, PERFORMANCE, Indices, Indicators, RISK, Failure Analysis, Component Importance, Risk Matrix, COST, Tangible cost projection, ADMINISTRATION, Users, and Data Type Manager. The main window is titled 'Aware / Folder: public user' and shows a 'Folder: public user' dialog box. This dialog box contains a table listing files in the 'public user' folder.

Name	Type	Modified	Size
C_IMP	Component Importance Ta	2011/09/28	51 rows
NTX5 Network	Epanet INP File	2011/09/28	7 kB
Pmin	Performance Indice Table	2011/09/28	23657 rows
Vmin	Performance Indice Table	2011/09/28	31158 rows



Analysis: 2Projecto LX(2)_cim

Summary

The component importance of each pipe is calculated by comparing the total demand that the network can satisfy when the pipe is out of service, with the total demand that the original network can satisfy. The calculation is computed over all the time steps in the entire simulation duration specified in the network model. Component importance values are between 0 (no demand is satisfied, over the simulation duration) and 1 (all demand is satisfied, over the simulation duration). [more ...](#)

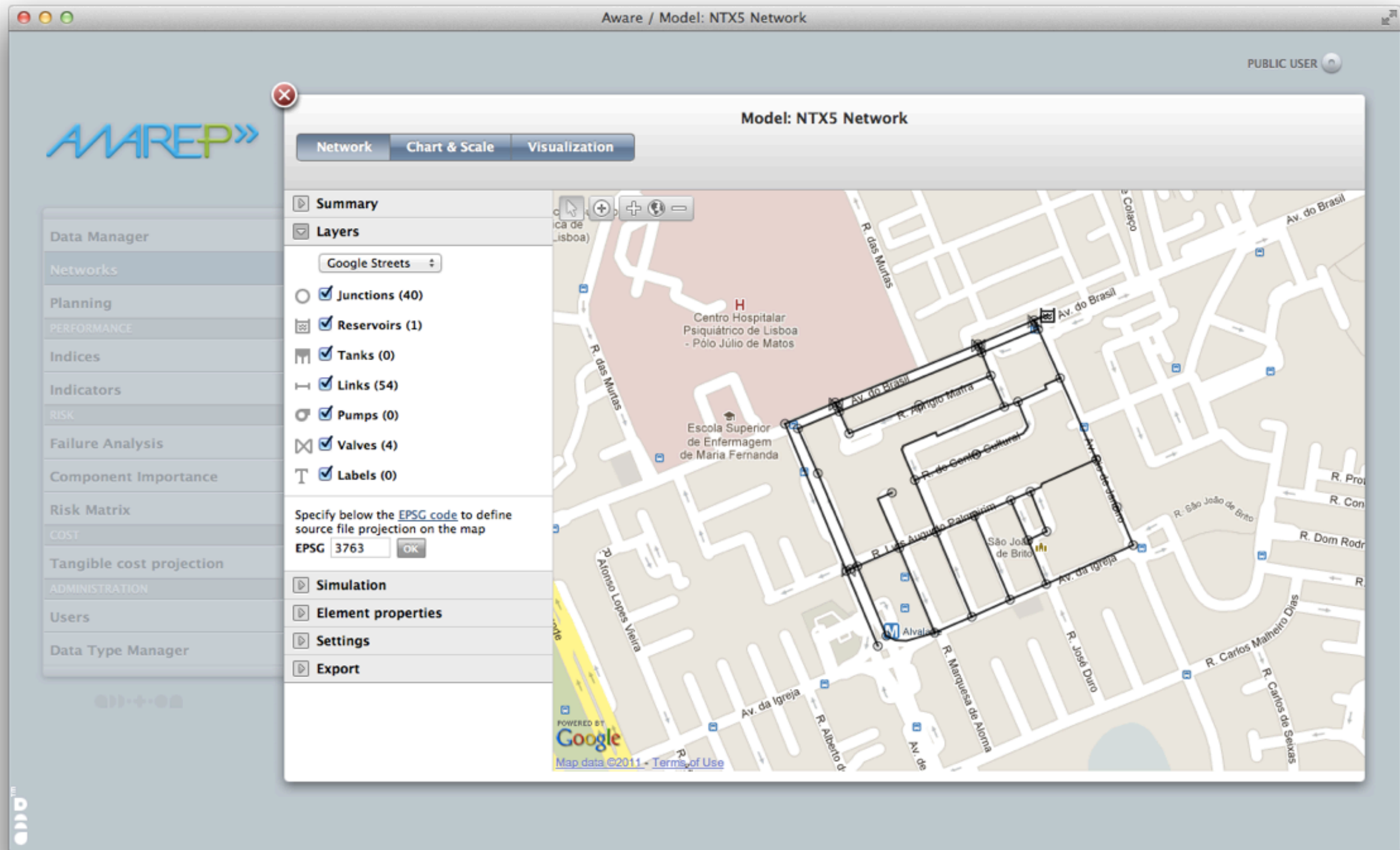
Zero-Consumption Pressure (m)

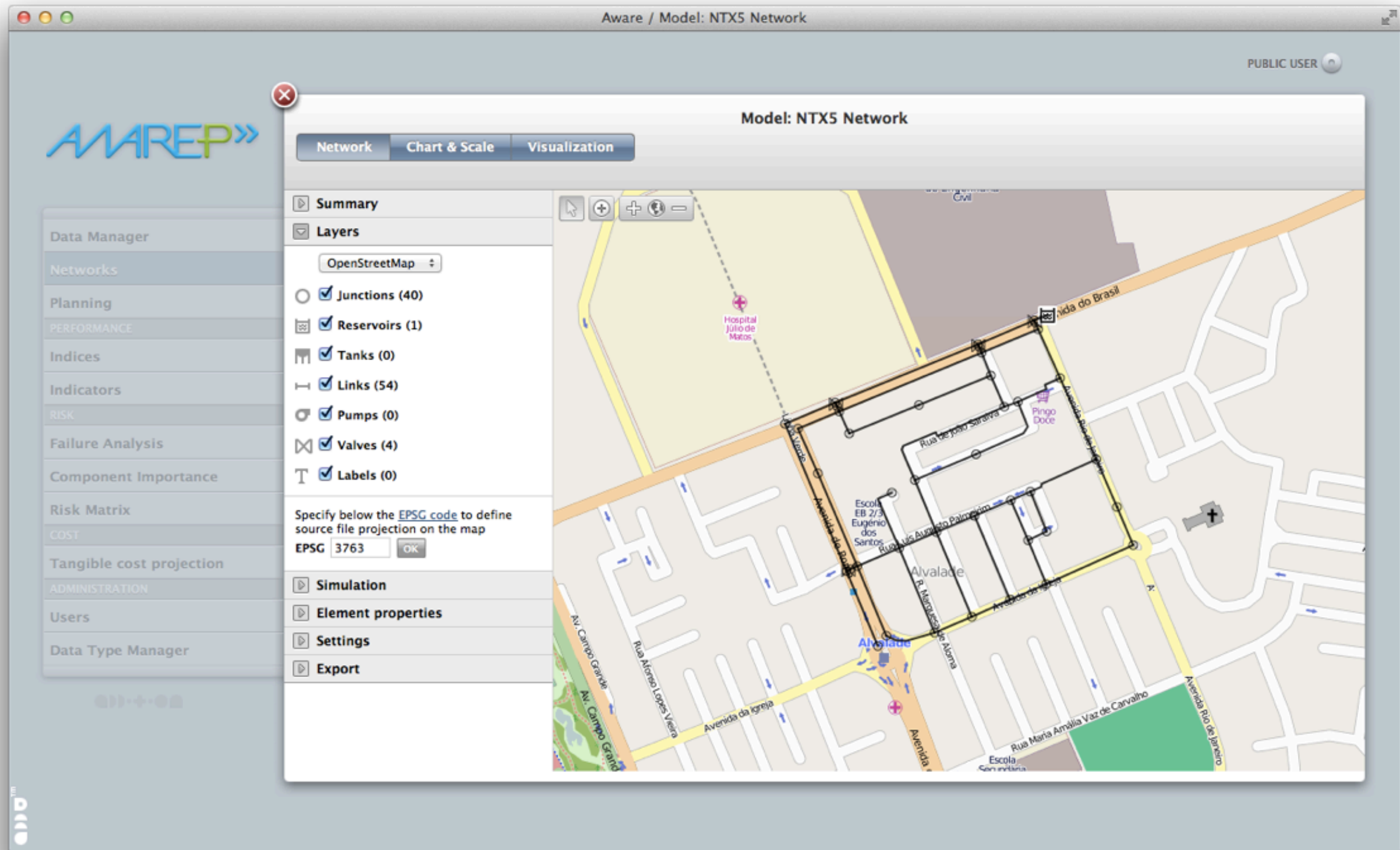
Required Minimum Pressure (m)

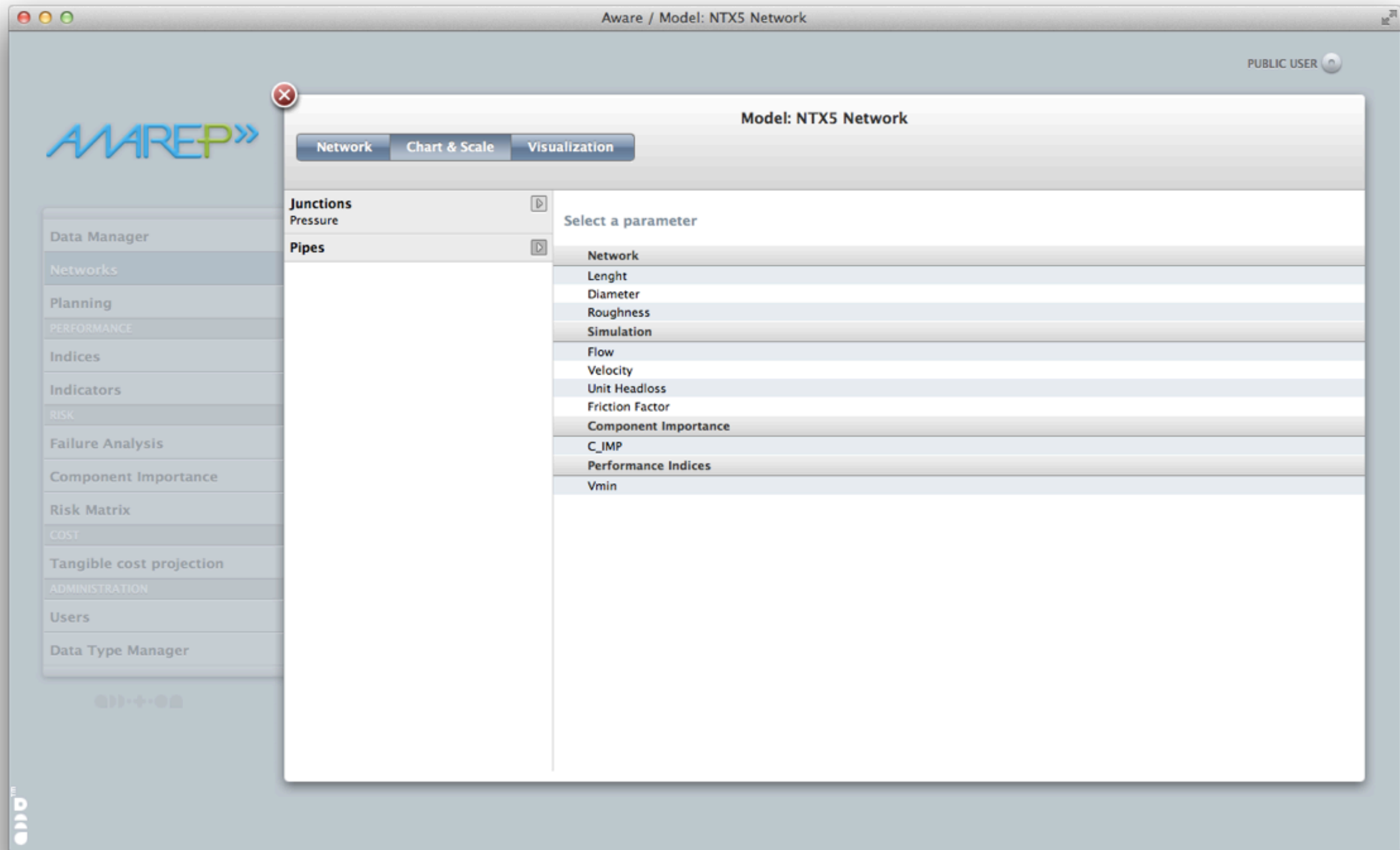
CALCULATE

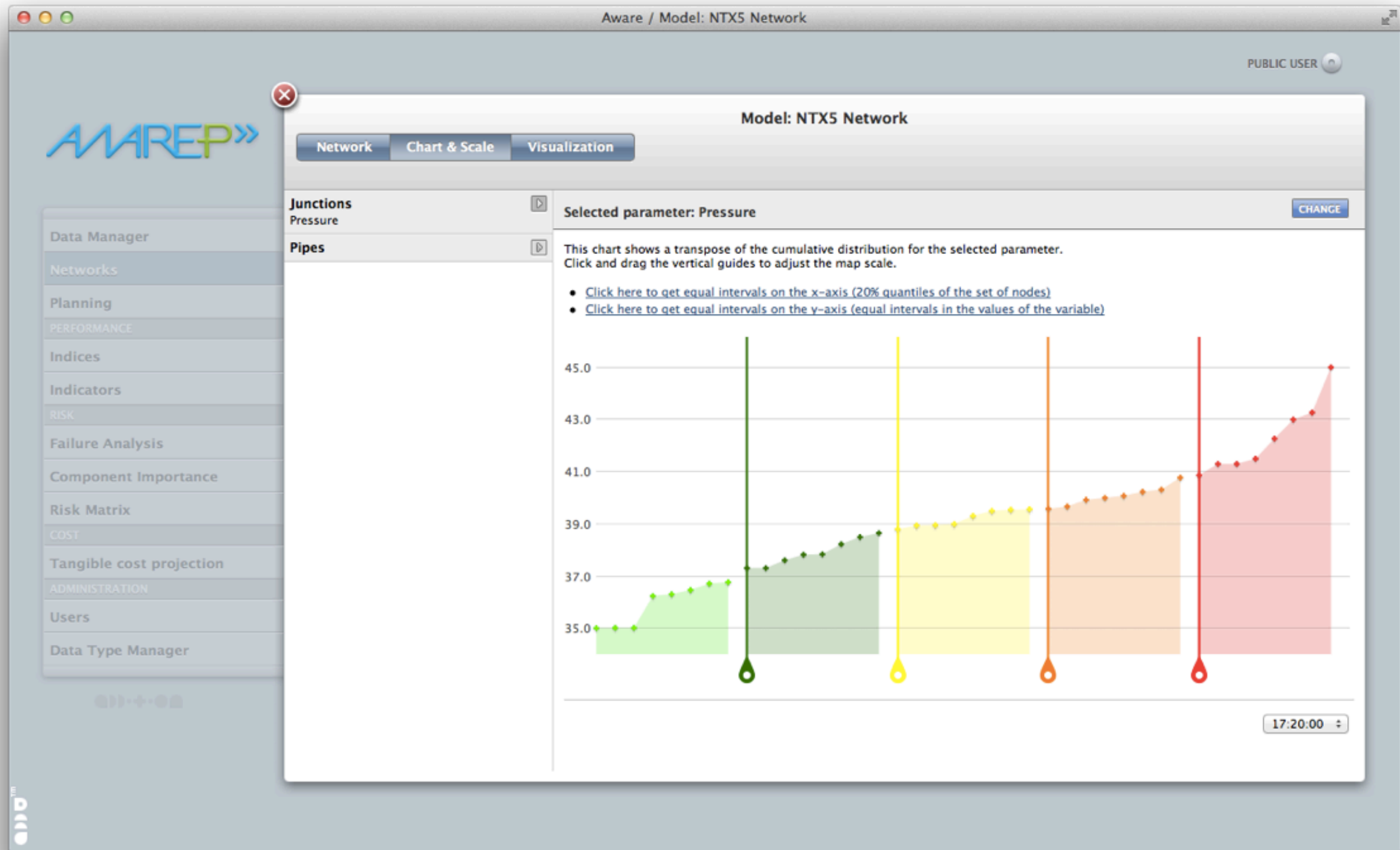
Pipe ID	Actual consumption	Importance
TOTAL NETWORK	15.8	
T1	0.0	100.000%
T600	3.7	76.389%
T610	5.0	68.218%
T430	10.8	31.653%
T250	11.6	26.415%
T245	11.7	25.986%
T450	11.7	25.767%
T455	12.2	22.668%

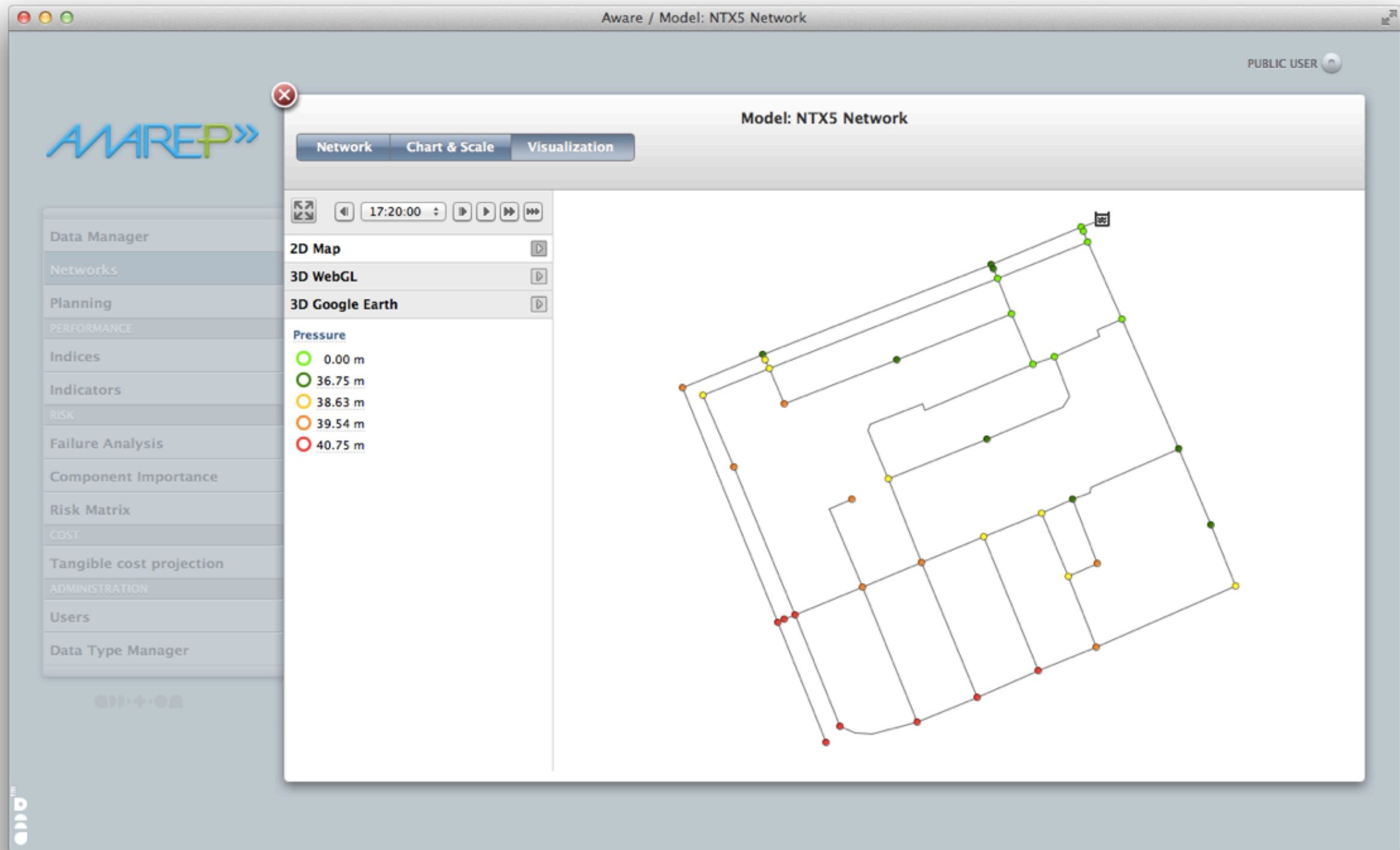
Network diagram showing a complex layout of pipes and nodes, with a specific pipe highlighted in orange.

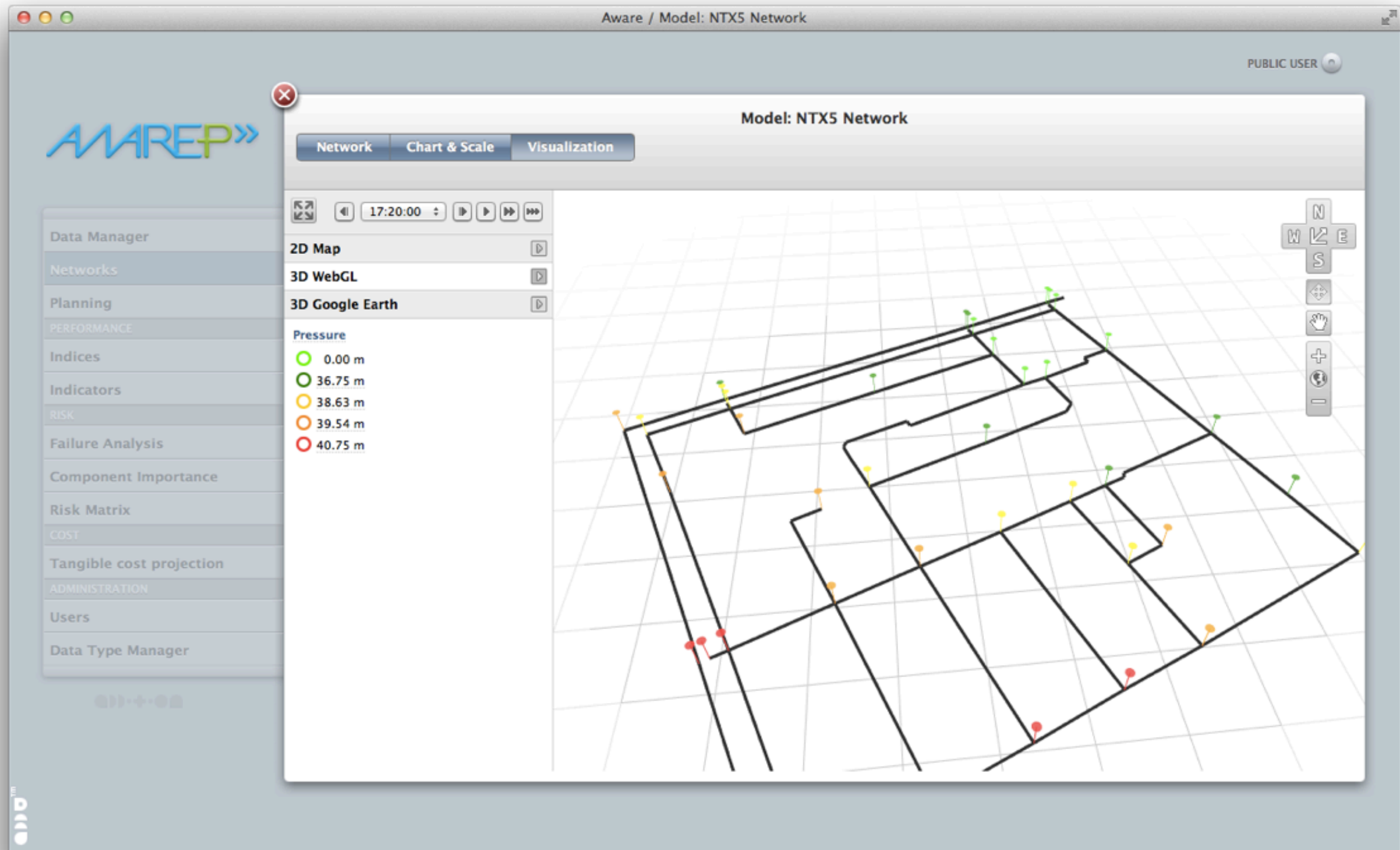


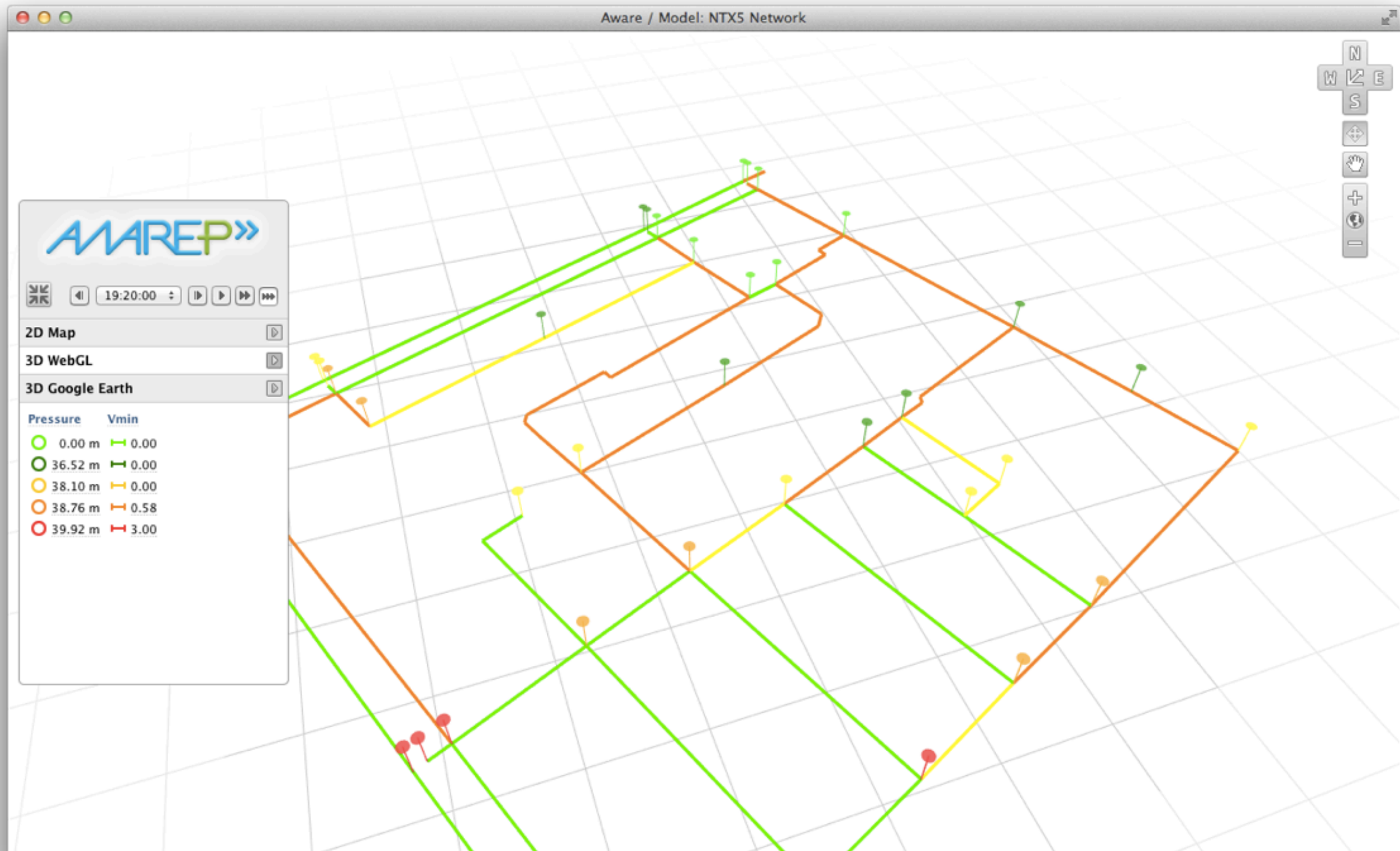


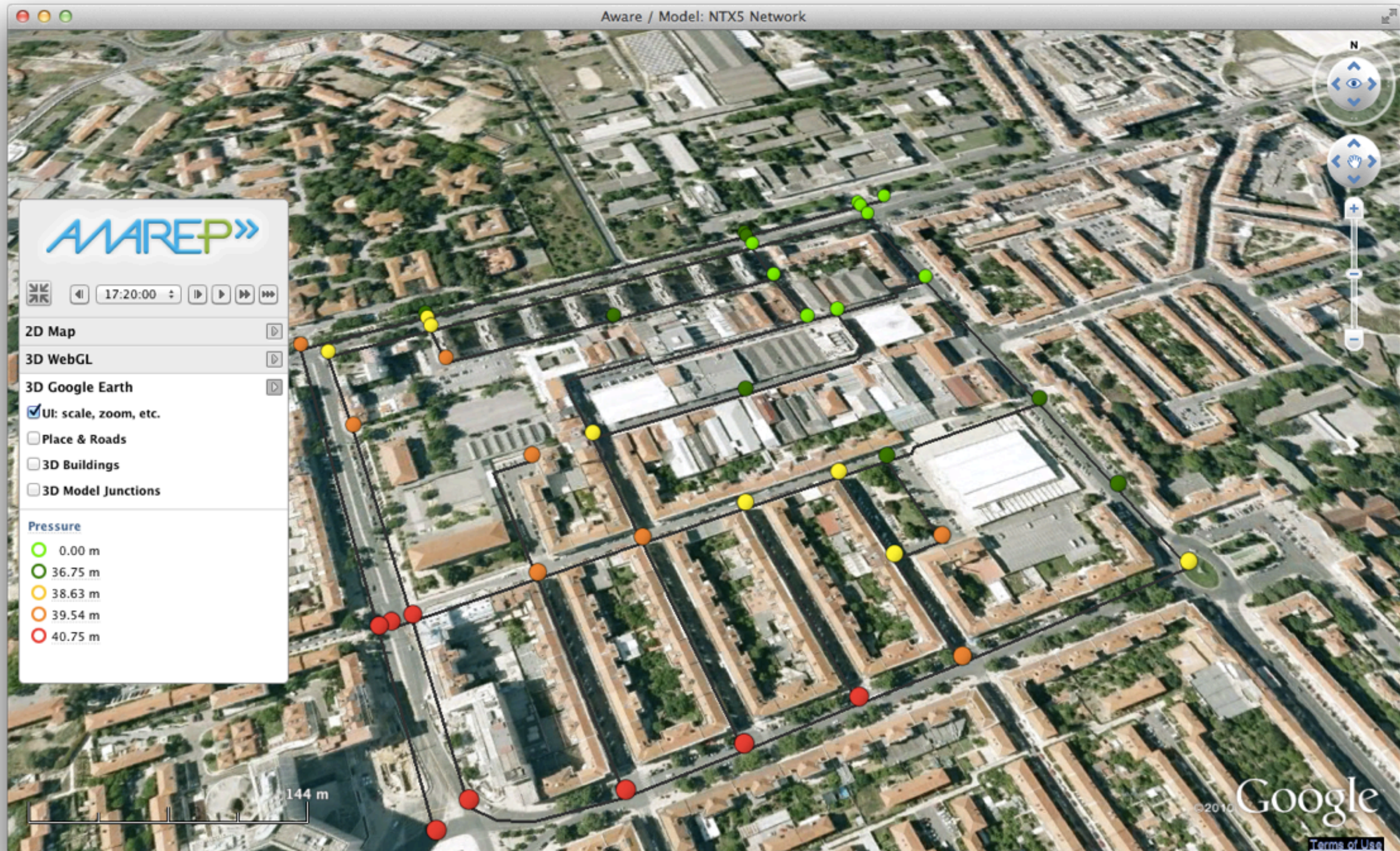














What next?

What you have seen works



On your Windows **server**

On your **desktop** (Win, Mac, Linux, etc)

On your Asus **netbook**

On your iPhone, iPad or droid **tablet**

It is not a proof of concept

Not less than professional grade software
is being delivered

Aware software & this community

Aware is open source

Aware is pluggable on every level
your knowledge could be there

Aware is here to stay

Supporting a global community

By the **end of 2011** this software will be available to everyone

baseform.org will be the platform supporting an open source community of engineering, of knowledge and of tools

You can **register** for information at <http://baseform.org>

