



Innovation underpinning Australia's  
built environment industry



*Project Steering Group Chair:*

**Halvard Dalheim**

Executive Director, Planning & Design

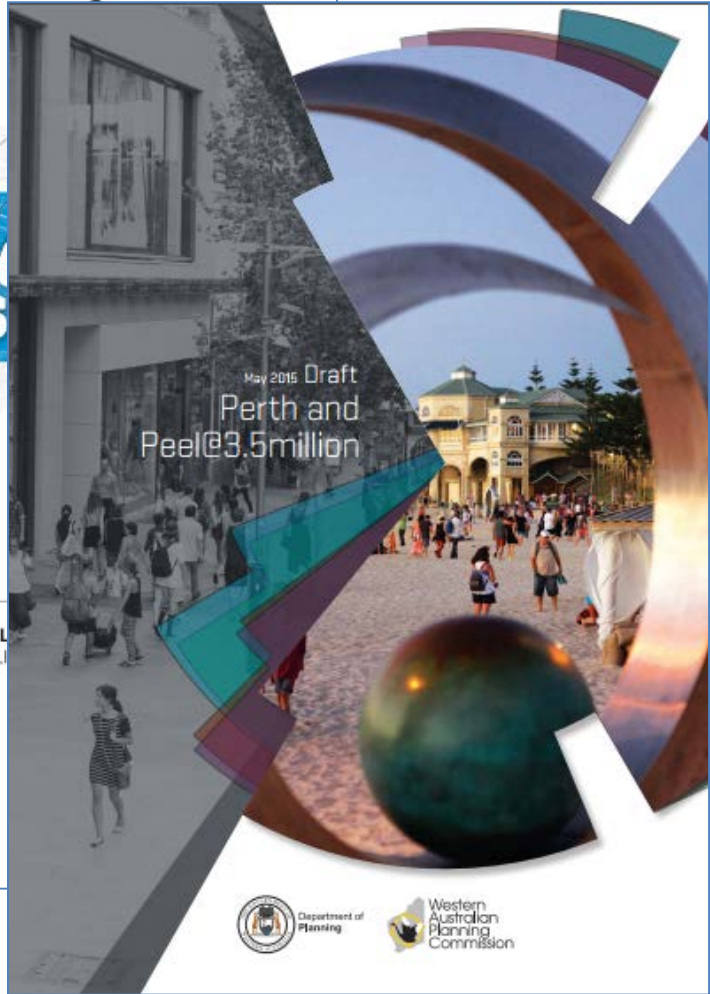
NSW Department of Planning &

Environment

# 1.44: Scenario Planning Transport Futures - Improved Road and Transport Planning using Digital Scenario Planning Tools' (October 2015-March 2017)

# Project Team

Halvard Dalheim	Chairperson, NSW Planning and Environment
Peter Newman	Curtin University, Project Leader
Ori Gudes	Griffith University
Hussein Dia	Swinburne University
Charlie Hargroves	Curtin University
Paul Fourie	Main Roads Western Australia
Rebecca Monckton	NSW RMS
Antony Johnstone	Aurecon
Chris Pettit	UNSW



**Information**

- ALU\_2011
- ALU\_2014
- ALU\_2017
- ALU\_2020
- none

**Legend:**

- Agricultural
- Commercial
- Commonwe
- Education
- Flats/Action A
- FHigh Densit
- FIndustrial
- FLow Density
- FMedium Des
- FParks/ Recre
- FRailways
- FResidential -
- FResidential -
- FRural Reside
- FTransport -
- FTransport -
- FWater Prote

**Layers**

- Detailed Context
- Regional Context
- Precinct Identification
- Residential
- Commercial

**Basemap**

- OSN

**Detailed Context Score**

- 0.00-0.2
- 0.25-0.5
- 0.50-0.7
- 0.75-1.0

**Analysis - Suitability**

Analysis Name: **Convertible LU**

Suitability Factor

- Dist Hospita
- Outside
- Within 20
- Within 40
- EPA Bio
- Outside EPA Biodiversity Zone
- Within EPA Biodiversity Zone
- Urban Value
- High Urban Value
- Low Urban Value

Urban Value	100	100
High Urban Value	100	100
Low Urban Value	60	80

Start | [Projects](#)

**Table Of Contents**

- Tower
- StreetSigns
- PlotLines
- Street Scene
- People
- Future\_Trees
- Future\_Median\_Grass

**Scenario 360 Content**

360 Analysis: 360 Setup

Active Scenario: **Base Scenario**

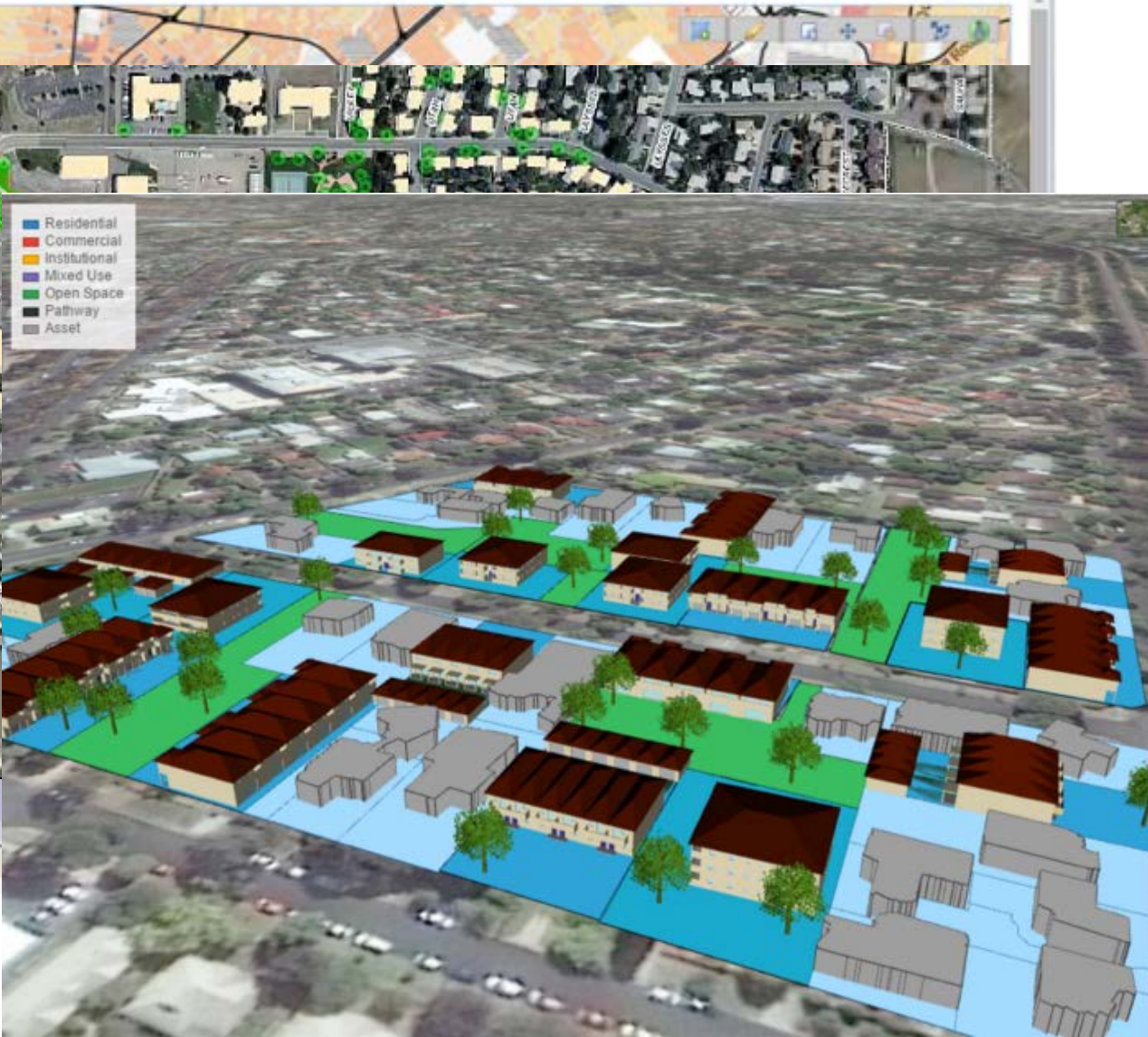
Modify

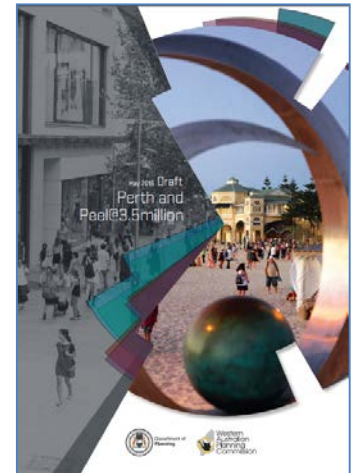
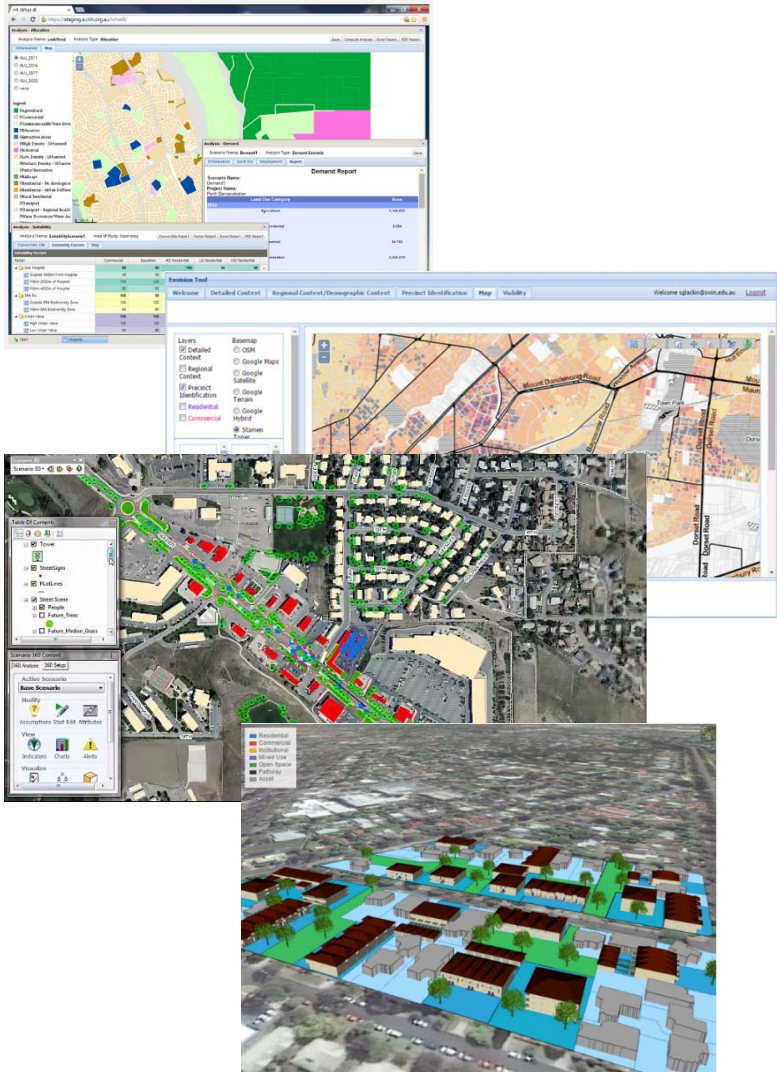
Assumptions Start Edit Attributes

View

Indicators Charts Alerts

Visualize





# Outcomes

- **Understanding Practice:** The project has investigated ‘long term big city’ elements in the strategic plans for Perth, Sydney, Melbourne and Brisbane with a particular focus on evidence of the modelling of urban development scenarios.
- **Appreciation of Capacity:** The project has researched a selection of digital scenario tools to consider their application to precinct and city level scenario modelling. The research sort to identify data related issues and level of visualisation.
- **Recommendations:** Based on the findings above the research team has developed a set of key recommendations to inform the development of city level digital modelling to inform transport and urban development planning and infrastructure investment.