

# P I V O T A L

2015 SPATIAL EDGE MASTER CLASS  
Brisbane Australia | 29 June – 10 July

*“Science and technology connecting government with citizens,  
businesses and education to meet a changing future”*





## Message from the Chair

I am very pleased to invite your national team to participate in an unprecedented international experience, learning how best to address your nation's grand challenges at the inaugural Pivotal 2015 Spatial Edge Master Class "Resilient and Rapid Response", to be held in Brisbane Australia.

Globally we face many complex, unprecedented and interrelated challenges. We require new decision making tools and strategies to understand these emerging challenges and develop sophisticated, sustainable solutions. Each country will need to develop appropriate and future orientated solutions at a level of scientific sophistication necessary to survive and thrive. Each country will need to harness geo-spatial information technology for excellence in business and governance.

This intensive two-week Master Class (including a one-day Executive Summit) will be attended by international political and business leaders and spatial information experts. Delegates will come together to learn and share how to apply best methods and appropriate technology for spatial analytics and visualisation of complex information and big data to cutting-edge decision making processes within contemporary problems and scenarios.

### At Pivotal 2015, delegates will:

- Engage with leading world experts in the rapidly growing field of spatial analytics to consider country specific real world problems;
- Develop capacity in harnessing spatial information and visualisation technologies to address complex problems and make better decisions;
- Network and establish relations with other leaders, and maintain a community of emerging young leaders through the Technical Social Network (TSNet).

I invite you to reserve space for your country's delegation. Please contact myself or my colleagues for explicit instructions on how to be included in this seminal event.

We look forward to having your national delegates join us in Brisbane in 2015.



**Professor Tim Foresman**

SIBA Chair in Spatial Information  
Institute for Future Environments, Queensland University of Technology

## National Delegate Invitation

Countries are cordially invited to each send up to three (3) delegates to Pivotal 2015. These delegates will be nationally recognised rising stars in their areas of practice – young leaders from government and business, legal and economics, spatial information technology, and other professional disciplines.



## Brisbane, Queensland, Australia

Queensland is quickly building a reputation for leadership in the spatial information field, having developed and applied real world solutions, especially in the areas of natural disaster response and sustainable development.

Queensland University of Technology (QUT), based in the heart of Brisbane, is at the forefront of spatial information research and development. QUT's Cube is recognised as the world's largest and most advanced visualisation research facility, and will be used as an interactive teaching tool during Pivotal 2015.

Host to other renowned events, such as the G20 Leaders Summit in November 2014, Brisbane's relaxed outdoor lifestyle, friendly locals and impressive infrastructure make it the perfect home for the Pivotal 2015 Spatial Edge Master Class.

**brisbane**  
australia's new world city





## Pivotal 2015 Proposed Program 29 June – 10 July, QUT, Brisbane Australia

Prior to Arrival: Preparatory Activities – Course Customisation for International Delegates

	Day 1 (Mon)	Day 2 (Tues)	Day 3 (Wed)	Day 4 (Thurs)	Day 5 (Fri)
<b>Week 1</b>	<b>Pivotal 2015 Spatial Edge Executive Summit</b>	<b>Foundation Spatial Concepts and Frameworks</b>	<b>Build &amp; Design with Queensland Globe Model</b>	<b>Nouveau Spatial Systems Design and Concepts</b>	<b>Operations for Humanity and Sustainability</b>
<b>AM</b>	Governance & policy foundation for technology innovation	Locational challenges in science & engineering	Optimal data management in clouds & web systems	Social networks, analytics & community decision support	Operations & risk management mapping & rebuilding
<b>PM</b>	Pivotal points & levers for change for populations, business, & governance	Sustainable systems design for cities & resilience	Data & policies for rapid use in human and natural events	Visualisation, understanding, & life-cycle project management	Rapid response action, governance & citizenship
<b>Evening</b>	Opening Reception Dinner	Networking event	Networking event	Networking event	Networking event

<b>Weekend Retreat</b>	Day 6 (Sat)	Day 7 (Sun)
	Offsite Retreat: Team building, project proposals, planning & design, communication	

<b>Week 2</b>	Day 8 (Mon)	Day 9 (Tues)	Day 10 (Wed)	Day 11 (Thurs)	Day 12 (Fri)
<b>AM</b>	Plenary: Technology & methods lecture				Project presentations
	Practical projects creation & lab development				
<b>PM</b>	Technical review & methods discussion				Project presentations & adjournment
<b>Evening</b>	Delegate-led event	Networking event	Delegate-led event	Networking event	Closing dinner event & awards

Ongoing Technical Social Network (TSNet) Engagement

### Master Class Deliverable – Engaged Connected Leadership

Pivotal 2015 delegates will be capable of working with a critical network of technical specialists, world leading thought leaders, and fellow decision makers to bring about effective decision making. Delegates will continue to evolve knowledge and skills to effectively engage and apply spatial information analytics and visualisation technologies within their national context. Delegates will become invited members of a global Technical Social Network (TSNet), managed by Pivotal to sustain and further motivate action.



### Innovative National Applications

Practical project outcomes for delegates:

- Flood risk & other disaster forecasting
- Planning & designing for resilient landscapes & settlements
- Future scenario development & decision support visualisation
- Economic analysis of land-use patterns
- Governance models & open data frameworks
- Crowd sourcing & citizen science data integration
- Humanitarian & emergency support



## Delegates will experience a life transforming intensive and immersive experience...

### PIVOTAL 2015

#### 1 Day Executive Summit

This experience begins with the one-day Pivotal 2015 Spatial Edge Executive Summit. The Executive Summit will be attended by a group of 150 top local business and senior government leaders from around Australia. World-class experts will highlight key opportunities for applying the technology across governance, business and society for a prosperous and sustainable world.

#### 11 Day Master Class

These concepts will then be investigated in detail throughout the two-week Pivotal 2015 Spatial Edge Master Class. Topics presented by world leading experts will help delegates gain insight into how to fully engage with and utilise these emergent technologies to inform decision making and strategy development. Delegates will have full access to cutting edge software and unique information resources, along with a tailored Technical Social Network (TSNet) to assist in the utilisation of these resources and maintain the momentum of their success.



*"Welcome to the world of i-Spatial"*

**Dr Paul Scully-Power**  
Former Australian astronaut

*"This Pivotal Master Class provokes us to pursue an unprecedented level of informed, integrated decision-making, which is critical for sustainable economic growth"*

**Celia Wade-Brown**  
Mayor of Wellington

*"Achieving a transition to a sustainable and vibrant future will need leadership from across all parts of our society working together, using the best we have in spatial analytical tools. Pivotal 2015 brings together leaders with enabling science and technology, providing a valuable and timely experience for those committed to sustainable development"*

**Charlie Hargroves**  
Club of Rome member, Co-Founder The Natural Edge Project

*"I commend this Master Class for providing such an opportunity to embed these competencies in our next generation of leaders"*

**Dr Richard MacGeorge**  
Former head of Canterbury Earthquake Recovery Authority

#### Delegate Sponsorship Criteria

Countries are invited to nominate and sponsor up to three (3) national delegates to attend the Pivotal 2015 Spatial Edge Master Class, with the following criteria:

- Delegates will represent outstanding citizens under forty years of age, who hold promise for the future of their countries
- Delegates will demonstrate exemplary performance within the last decade
- Delegate disciplines will vary depending on country context, including for example economics, law, political science, statistics, business, engineering, and science
- Delegates will have the energy and personal goal to make a transformational shift for themselves and their country

#### National Expression of Interest

Apply by **28 November 2014**

To register your nation's expression of interest in supporting three of your country's delegates for the Pivotal 2015 Spatial Edge Master Class, please contact [pivotal2015@qut.edu.au](mailto:pivotal2015@qut.edu.au), review the web site for more details ([Pivotal2015.org](http://Pivotal2015.org)), or call the Pivotal 2015 Project Office (**+61 (0)7 3138 9358**).

