

## The early stage analysis of a systemic innovation lab

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## The Early Stage Analysis of a Systemic Innovation Lab

**Dr Sharon Zivkovic** 



#### **Characteristics of Wicked Problems**



http://www.shiftn.com/obesity/Full-Map.html

•There are not clear relationships between cause and effect: they are multi-causal

•They have many interdependent elements/parts

•The parts change each other – they adapt

•The problem is constantly changing

•They do not have a right answer

Australian Public Service Commission, 2007



## **Types of Design**

- Include:
  - Service Design
  - Systemic Design
- Systemic Design:
  - Systems Thinking
    - Reduce complexity
  - Applied Complexity Approach
    - Embrace complexity

Buchanan, 1992; Jones, 2014





http://www.art-sciencefactory.com/complexity-map\_feb09.html





Snowden and Stanbridge, 2004



## Argued: Systems Thinking Not Appropriate





## Argued: Systems Thinking Not Appropriate

- risk that the wicked problem could be exacerbated due to
  - undesirable consequences, and

Camillus, 2008, p. 100; Westley et al., 2007, p. 10

other problems

Grint, 2005, p. 1473





## Argued: Systems Thinking Not Appropriate

• Small causal factor could have a big impact



http://louadlergroup.com/two-challenges-you-must-tackleto-hire-the-best-passive-candidates/



## **Choosing Correct Approach**

#### Law of Requisite Variety

Ashby, 1956





## Law of Requisite Variety

 'In theory, this means that to control such a system [wicked problem], we need as many elements in the control as there are states the system can take on.'

Batty, M. (2010)



#### **Complex Adaptive Systems**





#### **Design Initiatives to Assist Positive Emergence**

 empirical research has shown large complex systems, such as communities, require enabling conditions to be created in order to maintain the coordination required for emergent self-organisation and adaptive capability

McKelvey and Lichtenstein, 2007



#### **Design Initiatives to Assist Positive Emergence**

 'Emergence follows a now well-understood route .....In other words, a new order appears if forces at play exert tension on the system; a small change, if amplified, leads to a transformative process which, fuelled with the new imported resources and positively reinforcing forces, leads to a new equilibrium'

> Thietart, R. And Forgues, B (2011), 'Complexity Science and Organisation', in the SAGE Handbook of Complexity and Management.



#### cemerald insight

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# This Journal Advanced Search Advanced Search Home / BROWSE JOURNALS & BOORS / SOCIAL ENTERPRISE JOURNAL / VOLUME 14, ISSUE 3 / SYSTEMIC INNOVATION LABS: A LAB FOR WICKED PROBLEMS Select Language Select Language Powered by Geogle Translate Author(s): Sharon Zivkovic , (University of South Australia, Mawson Lakes, Australia) Abstract: Purpose Citation and Reference More +

The purpose of this paper is to question the appropriateness of current lab types for addressing wicked problems. A new lab type, a Systemic Innovation Lab, is proposed which combines the features of existing labs that are suited to addressing wicked problems.

#### Design/methodology/approach

Characteristics of initiatives that are considered appropriate for addressing wicked problems and existing lab types that contain any of these characteristics are identified. These lab types are Social Innovation Labs, Living Labs, Urban Living Labs, Urban Transition Labs and Public Sector Innovation Labs. The proposed new lab type is reasoned by combining the features of existing labs that are suited to addressing wicked problems. How the new lab would work in practice is illustrated with a case study.





## Systemic Design Principles

- Idealization
- appreciating complexity
- purpose finding
- boundary framing
- feedback coordination
- system ordering
- generative emergence
- continuous adaptation
- self-organizing
- requisite variety

Jones, 2014

• Align with Applied Complexity Approach to Systemic Design



#### Systemic Innovation Lab

- Supports systemic design, solution ecosystem and systemic innovation approaches.
- Contains key features recommended for addressing wicked problems.



## Labs with Features as Defining Features

	Social Innovation Lab	Living Lab	Urban Living Lab	Urban Transition Lab	Public Sector Innovation Lab
Focuses on addressing complex problems	$\checkmark$			$\checkmark$	
Takes a place-based approach				$\checkmark$	
Takes a transition management approach				$\checkmark$	
Enables coherent action by diverse actors	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Involves users as co- creators		$\checkmark$	$\checkmark$	$\checkmark$	
Supports networked governance approach			$\checkmark$	$\checkmark$	
Focuses on government as enabler of change					$\checkmark$



Zivkovic, 2018

## Systemic Innovation Lab

- Macro Level
  - Collaboration of diverse stakeholders including users and government.
    - Take a transition management, systemic innovation and networked governance approach that is enabled by government.
- Meso Level
  - Solution ecosystem of initiatives and the organisations that are collaborating on these initiatives.
    - Each initiative addresses one or more of the numerous causal factors that underpin the targeted wicked problem.
- Micro Level
  - Specific methodology used by a Systemic Innovation Lab
    - Based on systemic design: a core set of principles that are a crossover between design and complexity theory.



#### Case Study: FEMLAS Methodology



#### 🥺 Wicked Lab

#### Leading in complexity

#### Emily Humphreys - CEO and Cofounder

As an entrepresent Emily has worked across a number of industries in a variety of different roles. She has aver 15 years experience leading teams across nothware development, marketing and sales in new and exating businesses to deliver riche software solutions that solve problems. Her experience spans a number of industry sectors including social involvation, education, fashian, retail, automative, defence and et.earning.

Emily was one of 40 winners represented in South Australia's 2018 40 under 40 swards. She holds a Manters of Science and Technology Commercialisation (University of Adelaide), Graduate Certificate in Entrepreneurship (University of Adelaide) and a Bachelor of Social Science (University of Adelaide)





#### Dr Sharon Zivkovic - CIO and Cofounder

Sharon is a social entrepreseur and has worked with diverse community stakeholders on community capacity building projects for over 20 years.

Wicked Lab's model which underpins the Tool for Systems: Change was developed as part of Sharon's PhD thesis. In 2012 Sharon received the Award for Best Overall Paper at the International Social Innovation Research Conference for a paper describing this model and in 2016 she received a Fresh Scientist award for her work in addressing wicked problems using complexity science. She also Co-Chains the complexity science at the International Social Innovation Research Research Conference

Sharon holds a PhD. (University of South Australia), Vocational Graduate Certificate Education and Training for Sustainability (Swinburne University), Graduate Certificate in Research Commercialisation (University of South Australia), Master of Entrepreneurship (University of South Australia) and Bachelor of Accountaincy (University of South Australia).





## **FEMLAS: Form Stage**

- Form core team
- Build core team capability
  - Commence Elective: Systemic Innovation Labs
  - Unit 1 Complex Systems Leadership Program
- Define solution ecosystem boundary
- Frame solution ecosystem
- Undertake initial mapping of solution ecosystem initiatives and organisations
  - Based on the core teams' knowledge and experience
  - Using Tool for Systemic Change



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Reports	* assist governments to create the enabling conditions required for this type of approach. For help getting started go to the tutorial tab How to Videos		
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☑ Transition Cards	Best Paving	Business that supplies segmental and large format paving, and natural stone	NGO	Modify	Delete
🗞 Wicked Problems /	City of Playford	South Australian Council in Adelaide's northern suburbs.	Local government	Modify	Delete
Opportunities	Community Gardens in SA	Project funded in 2003 - 2004 by the Department of Health and hosted by the Community and Neighbo	NGO	Modify	Delete
📽 Communities	Elizabeth Garden Club	Holds monthly meetings with guest speakers on various subjects and trips to gardens and other pla	NGO	Modify	Delete
♥ Initiatives	Ezy Clean Mobile Car Deta	Small business operating in the northern Adelaide region	NGO	Modify	Delete
A Organisations	Garden Gladiators	Community managed self-help gardening initiative operating in Elizabeth	NGO	Modify	Delete
Reports	Jeffries	South Australian company focused on receiving, processing and marketing recyclable organic resour	NGO	Modify	Delete
	Mission Australia	Non-profit organisation that operates in Adelaide's northern suburbs	NGO	Modify	Delete
ා Activity	Northern Adelaide Busine	Non-profit organisation offering business advice to small businesses in Adelaide's northern suburbs	NGO	Modify	Delete
🏜 Users	Northern Adelaide Develo	Non-profit organisation concerned with the economic development of the northern Adelaide region	State government	Modify	Delete
Tutorials	Office of the North	State Government Office with the role of coordinating multi-stakeholder strategies in the norther	State government	Modify	Delete
	Organisation for Northern	Community driven organisation with the aim of building the capacity of northern communities	NGO	Modify	Delete
	Para West Adult Campus	Senior secondary school exclusively for people over the age of 16.	Education	Modify	Delete
	Playford Greening and La	Volunteer community group that works with the City of Playford to assist in its revegetation prog	NGO	Modify	Delete
	Regency Institute of TAFE	Public registered training organisation operating in Adelaide's northern suburbs	Education	Modify	Delete
	South Australian Housing	Housing authority in South Australia	State government	Modify	Delete
	St Columba College	Private school located in Andrews Farm which provides education from Reception to Year 12	Education	Leave a Me	essage



#### **FEMLAS: Explore Stage**

- Further build core team capability
  - Complete Units 2 & 3 Complex Systems Leadership Program
- Core team engages with users
  - Users: the initiatives and the organisations in the solution ecosystem that are collaborating on these initiatives
- Detailed mapping of the solution ecosystem undertaken by core team
  - Key informant interviews
  - Sub-system focus groups



#### FEMLAS: Map Stage

- Enter into the online tool the mapping data that was collected during the Explore stage
- Use tool to create a transition card for the solution ecosystem



## Model



	Building the Adaptive Capacity of Communities
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Communities	Create a disequilibrium state 💌		
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Reports	The self-help gardening groups in Playford specified that the goal was to provide a free garden service to frail and disabled resident who had extensively overrun gardens which the self-help garden groups did not have the capability to address.	5	
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	Embrace uncertainty 🔾 🚥		
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	🖸 Create controversy 😋 🖬		
	Amplify action 💶		
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	🗌 Enable rich interactions in relational spaces 🖘 🚥		
	Support collective action 😔 🚥		
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## FEMLAS: Learn Stage

• Analyse transition card to determine gaps in effort for achieving systems change







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#### FEMLAS: Address Stage

- Distribute second briefing paper that informs users of the results of the mapping process
- Invite all users to participate in a large group intervention process to cocreate initiatives that address identified gaps
  - Users identify if their organisations and initiatives can address the identified gaps in effort by amending their existing initiatives or creating new initiatives
  - Users are encouraged to co-create new initiatives with other users





#### FEMLAS: Share Stage

- Transition card updated to incorporate amended and new initiatives from the Address Stage
- Transition card embedded on Lab's website
  - Can then be viewed, discussed and shared by users
- FEMLAS Cycle Completion Report prepared and disseminated to stakeholders



#### Post FEMLAS Cycle

- Users complete an online form on the Lab's website to inform the core team of any further changes
- Core team updates the transition card
- Periodically the FEMLAS iterative loop is repeated to re-engage users





Home / E

#### « All Events

This event has passed.

#### South West Food Community

#### June 28 @ 9:00 am - 10:30 am

Join Edith Cowan University, Public Health Advocacy Institute of WA and Wicked Lab for the launch of *South West Food Community*, a new project that aims to identify the initiatives supporting health food availability, access and use across the South West region.

RSVP at Eventbrite 'South West Food Community Launch'.



Are you interested in supporting access to healthy, affordable food for all community members?

#### Introducing...South West Food Community

Join us as we launch South West Food Community, a new project that aims to identify the initiatives supporting healthy food availability, access and use in the region, and how these initiatives function as a system. Regardless of whether you are working in food production, health, social work, education, community development, town planning, or just have an interest in food, come along to find out more and how you can get involved!

 Where:
 Maker and Co. 75B Victoria Street, Bunbury

 When:
 Thursday 28th June 2018, 9:00am - 10:30am

 RSVP:
 at Eventbrite 'South West Food Community Launch'

 Please RSVP for catering purposes: light refreshments provided. This is a free event.







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	Manjimup Cherry Harmony Festival Manjimup Farmers Market				Leave a Message



Manjimup Cherry Harmony Festival **Manjimup Farmers Market** Manjimup Produce Swap Manna and Mercy Margaret River Community Centre Margaret River Dried Grapes and .... Margaret River Farmers' Market **Margaret River Organic Farm** Margaret River Organic Garden Tr... Nannup flower & garden festival Peppermint Lane Lodge Pint Sized Plots School Breakfast Program Shire of Harvey projects South West Aboriginal Medical Se... Stellar Violets Arts & Cultural Cen... Stephanie Alexander Kitchen Gar... Superhero Foods Swap Shuffle Share (SSS) Harvey The Bunbury Markets The People's Garden Thommo's Community Garden WA School Canteens Association









Manjimup Cherry Harmony Festival **Manjimup Farmers Market** Manjimup Produce Swap Manna and Mercy **Margaret River Community Centre** Margaret River Dried Grapes and ... Margaret River Farmers' Market **Margaret River Organic Farm** Margaret River Organic Garden Tr... Nannup flower & garden festival Peppermint Lane Lodge Pint Sized Plots School Breakfast Program Shire of Harvey projects South West Aboriginal Medical Se... Stellar Violets Arts & Cultural Cen... Stephanie Alexander Kitchen Gar... Superhero Foods Swap Shuffle Share (SSS) Harvey The Bunbury Markets The People's Garden Thommo's Community Garden WA School Canteens Association



🗠 Leave a Message





