

EVALUATING SYSTEM CHANGE



EXPLORING HOW PROJECT INNOVATIONS TRANSFORM BUSINESS AS USUAL

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TODAY'S PRESENTATION



Signature Programme: Innovation and system change case studies



Socio-technical systems (STS) theory



Learning from applying STS to evaluation case studies

PROJECT INNOVATIONS FOR SYSTEM CHANGE

EVALUATION CONTEXT AND APPROACH

CONTEXT: SIGNATURE PROGRAMME



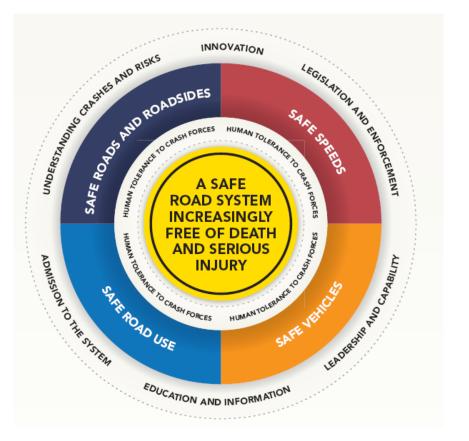
Safer Journeys

Signature Programme

Established to enable and facilitate the implementation of projects that are

- Ambitious
- Innovative
- Apply the Safe System principles and approach

With the aim of reducing deaths, serious injuries, or the risks of these occurring



Evaluation funded and supported by ACC and NZTA

INNOVATION PROJECTS







Visiting Drivers

Commitment to shared vision, sense of direction, co-investment, problem solving

Identify willing leaders, understand capacities and capabilities of different partners

Relationships, trust, frank conversations



Applying safe system pillars and principles

Learning identified and disseminated

Building knowledge, understanding, acceptance of safe system

Ambitious vision/goals



...and reflecting on Eastern Bay of Plenty

Implementing safe system approach and principles.

Culture of continuous improvement.

Programme support.

Projects aimed at challenging attitudes, norms, default settings inherent in practices and beliefs



PROJECT PROCESSES

	Collaborative practice	System change	Culture change	Life and limb	
Long-term/ strategic system change	Relevant organizations collaborating deeply, systematically, and effectively, on safe system enhancements	Partners designing an effective safe system understand value of investing in a safe system and build this into sustained busines activity	; demonstrating benefit of a safe road system to the public, reframing	Reduction in deaths and serious injuries to sufficient extent that a positive ROI can be confidently projected for programme overall	
Medium-term	Partners expanding field of influence, seeking new partners	Update, adaptation of successful interventions Innovative aspects of projects adopted more widely	Demonstrate benefit of a safe road system & reframing road safety conversation with programme stakeholders	Identifiable reduction in absolute or relative risk of serious injuries and/or deaths	PRO OUT
Short-term		innovation, adaptation, challenging inconsistencies,	Demonstrate how partners can uccessfully apply safe system approach to addressing road safety issues	Identifiable systemic changes implemented which existing evidence suggests should lead to reduction in risk of serious injuries and/or deaths.	

PROGRAMME OUTCOMES

SOCIO-TECHNICAL SYSTEMS THEORY

FROM NICHE INNOVATIONS TO SYSTEM CHANGE

CORE ELEMENTS



Systems that include supply side (innovation) and demand-side (user environment)



Actors that are involved in maintaining and changing the system; they carry, reproduce and challenge the rules in their activities

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Rules and institutions that guide actor's perceptions and activities; they provide constraining and enabling contexts for actors

Socio-technical systems are the outcome of the activity of human actors

RULES AND REGIMES

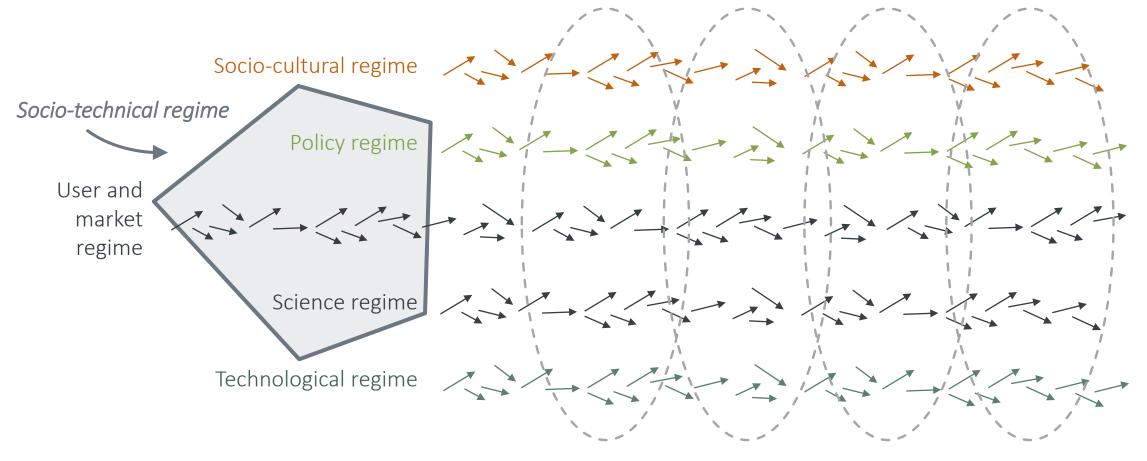
Rules

- Regulative explicit, formal rules that constrain behaviour and regulate interactions
- Normative values, norms, role expectations, duties, rights and responsibilities
- Cognitive nature of reality and the frames through which meaning or sense is made

Regimes

- Socio-technical regimes as semi-coherent sets of rules linked together
 - **Technological and product** standards, specifications
 - Science Programmes, boundaries, procedures, paradigms
 - Policy Administrative regulations and procedures, goals, interactions, ideas
 - Socio-cultural Information rules, cultural values, symbols
 - Users and markets laws, relationships, practices

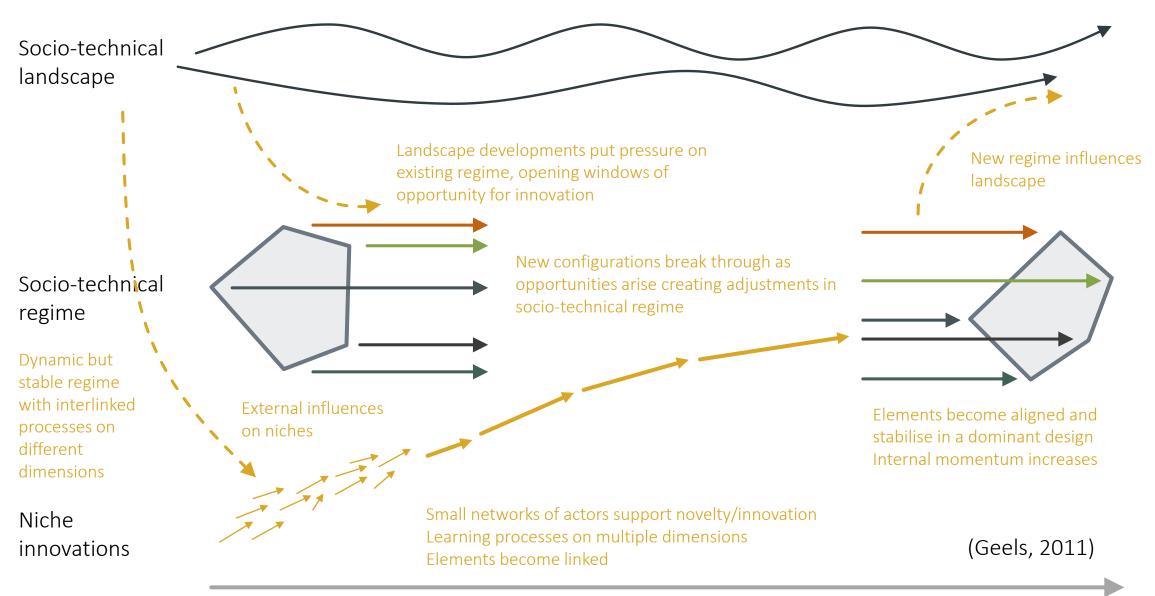
Ongoing processes in a socio-technical regime



(Geels, 2011)

SOCIO-TECHNICAL TRANSITIONS

- Non-linear processes involving alterations in the configuration of whole systems
- Three levels
 - Niches the locus for radical innovation
 - Socio-technical regimes 'deep structure' of established rules and systems that stabilise current practice
 - Socio-technical landscape Wider context that influences niche and regime dynamics
- Function interdependently at macro (national/international); meso (city); micro (community) levels

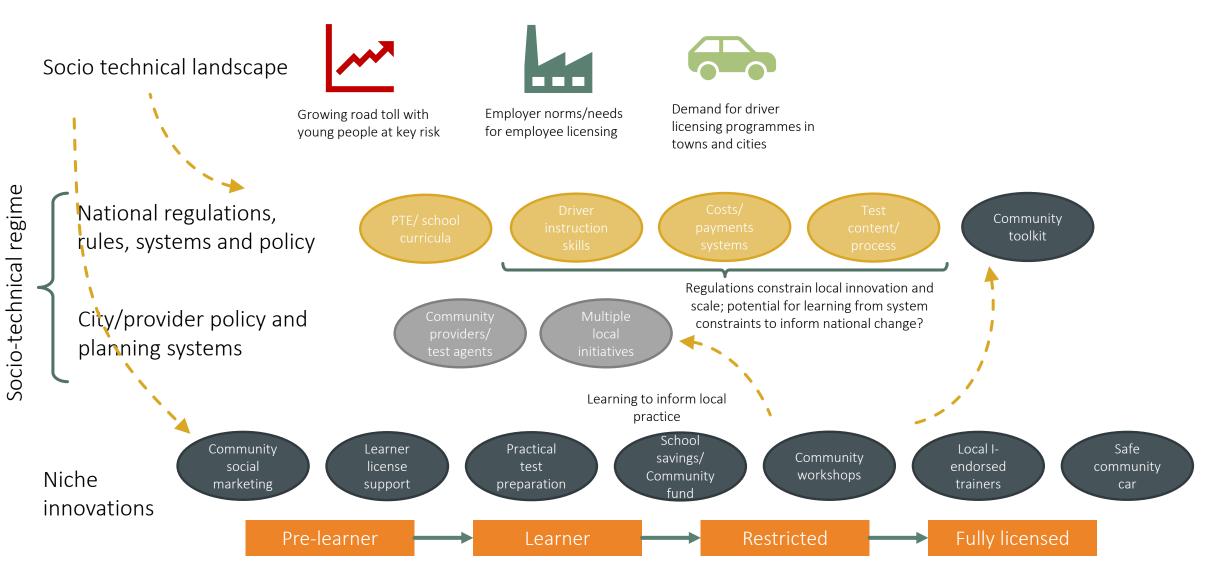


Time

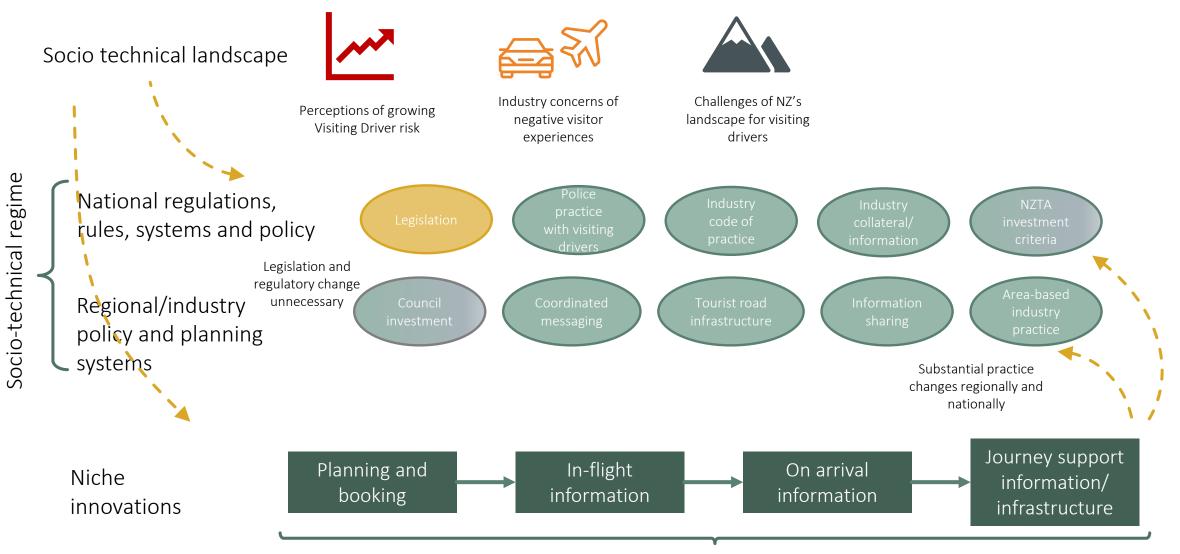
APPLYING SOCIO-TECHNICAL SYSTEMS THEORY

LEARNING FROM CASE STUDIES

Community driver licensing



Safety of visiting drivers

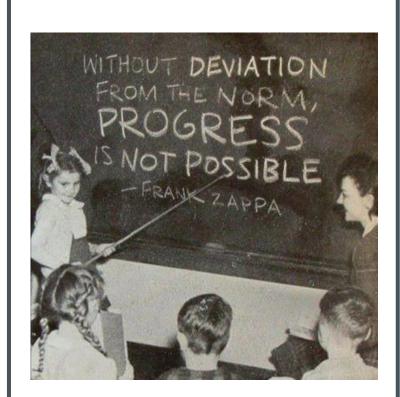


Agency, local government and industry community of practice

LEARNING FROM CASE STUDIES

- Local niche innovations are as important for the systemic barriers that they reveal, as they are for their local impacts
- Systemic barriers include:
 - Rules and systems
 - Regulations that constrain developing new ways of working
 - Policy or investment priorities that shift resources
- Yet some system change still occurred from sites of niche innovations

LEARNING FOR EVALUATION



01	02	03	04	05
THINK BEYOND THE PILOT TO SYSTEM CONSTRAINTS AND OPPORTUNITIES	NICHES AS LOCATIONS FOR LEARNING	DEVIATING FROM EXISTING PRACTICE IS HARD WORK	SCALING REQUIRES A WIDER MANDATE	MISMATCH BETWEEN LOCAL INNOVATION AND SYSTEM CAPACITY

WANT TO READ MORE?



www.dovetailnz.com/news

- Geels FW. 2011. The multi-level perspective on sustainability transitions: Responses to seven criticisms. *Environmental Innovation* and Societal Transitions, 1: 24-40
- Marletto G. 2014. Car and the city: Socio-technical transition pathways to 2030. *Technological Forecasting & Social Change*, 87: 164–178