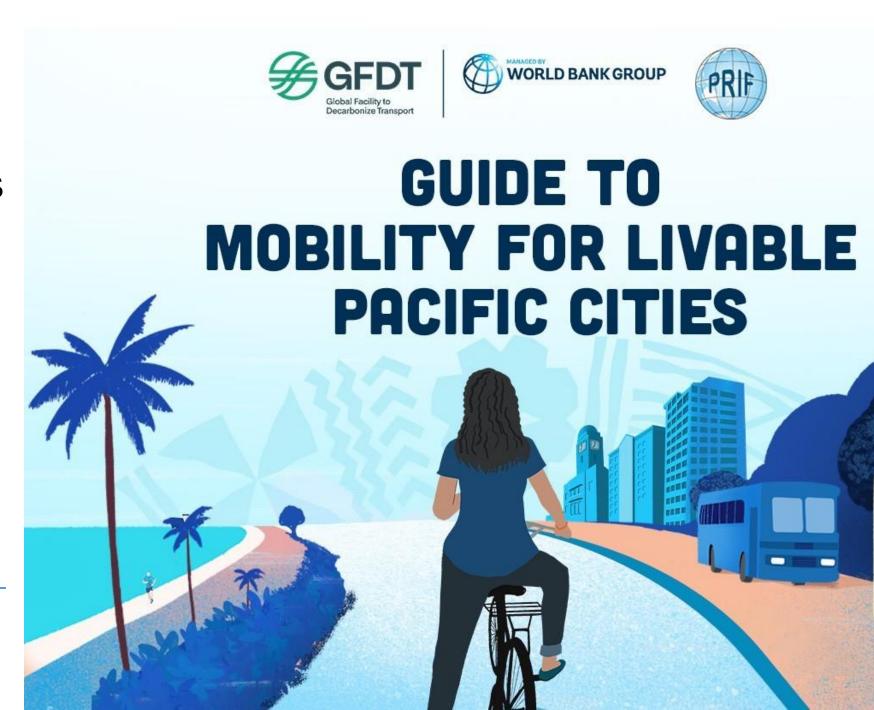
Guide to Mobility for Livable Pacific Cities Webinar Series

Webinar 3 of 9:

Tactical Urbanism

– Rapid Street
Transformations

Bram van Ooijen



About the Speaker

- Director at VOMobility
- 15 years experience in designing streets for active mobility, predominantly in China and Asia.
- Projects include street design, bicycle networks, greenways, BRT corridor design, low-emission zones, parking management, TOD
- Clients include ADB, World Bank and GIZ.
- Formerly with Institute for Transportation and Development Policy (ITDP) – China office
- MSc in Civil Engineering, Twente University, the Netherlands

- Involved in the Pacific since July 2023
- Two visits, four countries, six weeks in the region
- Time spent in Tonga, Kiribati, Fiji and Solomon Islands





Content

- 1. Introduction to Tactical Urbanism
- 2. First tactical urbanism in the Pacific: South Tarawa, Kiribati
- 3. Opportunities for Tactical Urbanism
- 4. Tactical Urbanism in the Pacific
- 5. Getting it Done
- 6. Way forward how to mainstream tactical urbanism in the Pacific region?

Questions & Discussion



1. Introduction to Tactical Urbanism

A recap of our workshop on street design for active mobility. Info and slides at this link

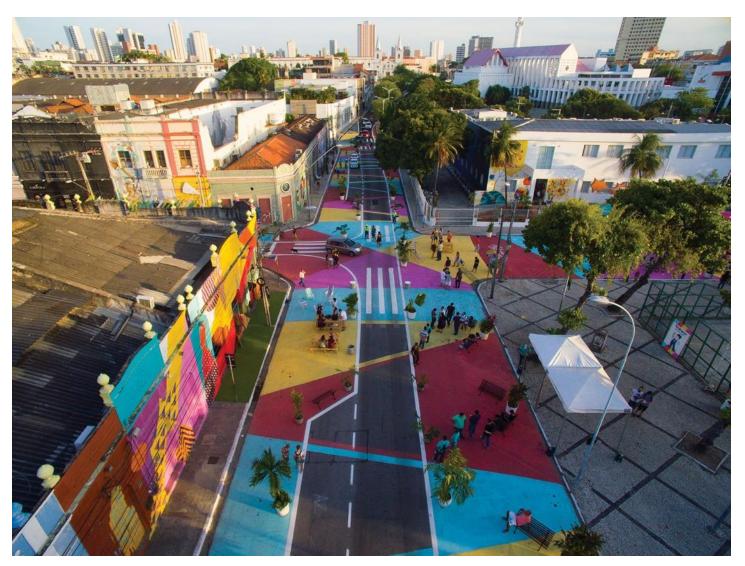
Key takeaways:

- We need to design our streets better (and more) for pedestrians and cyclists
- 2. We need to see the street as a place for transport, but also **public space**
- 3. We need to include these ideas in our existing and future road, transportation and land development strategies, investemnts, policies and projects





1. Introduction to Tactical Urbanism



What is Tactical Urbanism?

"A design methodology and engagement strategy,

implementing temporary 'tactical demonstrations' and 'trial interventions'

to test living versions of designs with communities in real time,

focused on delivering streets that put people first, making them safer & more livable."



1. Introduction to Tactical Urbanism



Pop-up: 1 day – 1 month











LONG-TERM/CAPITAL (5 years - 50 years • \$\$\$\$)

Interim

Interim: 1 month – 1 year Project Type (time interval · relative cost)

Project Leaders

Materials

Permission Status

Public Involvement

Flexibility of Design

Can be led by anyone (city,

Government / organizational leadership + involvement required Always sanctioned

Relatively low-cost, but semi-

durable materials

Public input, champion

engagment, government /

organizational stewardship

High: organizers expect project

to be adjusted; it may be re-

moved if it does not meet goals

(1 month- 1 year • \$\$)

Government / organizational leadership + involvement required Always sanctioned

Low-moderate cost materials,

designed to balance flexibility

with maintenance needs

Public input,

government / organizational

stewardship

Moderate: organizers expect

project to be adjusted, but it

is intended to remain in place

until capital upgrades are

(1 year - 5 years • \$\$\$)

Government / organizational leadership + involvement required

Always sanctioned

High-cost permanent materials that

cannot easily be adjusted Public input,

government / organizational stewardship

Low: project is considered a permanent capital upgrade that is unlikely to be adjusted significantly once installed

can inform future investments

Permanent

Source: GDCI

Collect data to refine approach for current or future projects?

Always

possible Always

Always - project performance

Source: Street Plans Collaborative (2016)



Capita

While popular abroad, tactical urbanism was not practiced in the Pacific region until March 2024, outside the St. John Bosco Primary School in Betio, Tarawa, Kiribati.







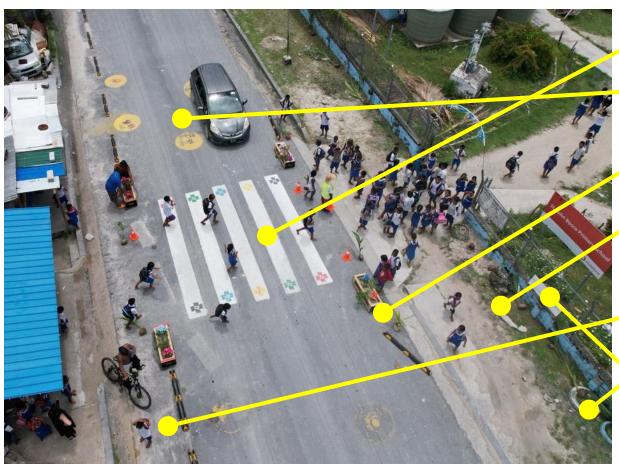
Works completed include:



- Crosswalk, connecting the school gate to an alleyway across, used by many students
- Road markings to slow down traffic speeds and increase road safety
- Road narrowing at the pedestrian crossing using custom-made planter boxes
- Improved footpath (right), with vehicle parking (including three wrecks) removed, rubbish collected, overgrown grass cut, coconut trees planted
- Temporary footpath (left) on the other side of the road through planter boxes and physical measures
- Seating and play equipment made of unused pallets
- New sign boards along the school gate: drive slow, no parking on footpath



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Process led and delivered by World Bank and the St. John Bosco Primary School, in cooperation with local authorities (Kiribati Land Transport Authority (KLTA) and Betio City Council (BTC))























Key Project Figures:

- Implementation: 4 hours
- Planning and preparation: 6 weeks
- Material costs: US\$ 2,200
- Average traffic speeds from 34.7 to 19.7km/h
- Cars yielding to students from 9% to 81%
- Students' perceived safety from 1.2% to 100% (based on 600 survey respondents)



In preparation, students designed crosswalks and road pavement patterns, which were made into stencils.











Upon completion, artists delivered a performance for the students and a party was held.













1. PREPARATION

- Obtaining approval from Betio Town Council
- Obtaining approval from KLTA for street closure during implementation
- Obtaining approval from the Ministry of Education to allow students to participate during school hours
- Stakeholder consultation with affected car owners and businesses, in cooperation with BTC
- Purchasing, fabrication, rental and transport of materials and tools for implementation
- Preparation of a work plan with tasks for each team member, including school team: principal, teachers, school committee, students
- In-class street design session with students
- Road safety assessment
- Pre-implementation traffic surveys on traffic and pedestrian volumes, crossings and yielding
- Photo and video documentation at pre-implementation stage
- Preparation of an environmental and social impact mitigation plan
- Preparation of school survey on project appreciation and students' travel behavior

2. IMPLEMENTATION

- Preparation of team, repeating plan, tasks, responsibilities
- Street closure by KLTA
- Implementation of the measures by school students, volunteers and World Bank team
- Photo and video documentation of the implementation
- Re-opening of the street by KLTA

3. POST-IMPLEMENTATION

- Photo and video documentation of the implemented project
- Post-implementation traffic surveys
- **Celebration** with musicians & performers
- School survey on project appreciation and students' travel behavior



Creation of footpaths through road narrowing and/or removal of (illegal) on-street parking

Footpath creation outside a school in Istanbul



Footpath creation in Belo Horizonte, Brazil





Creation of a bicycle lane by freeing up road space from vehicle lanes and parking.



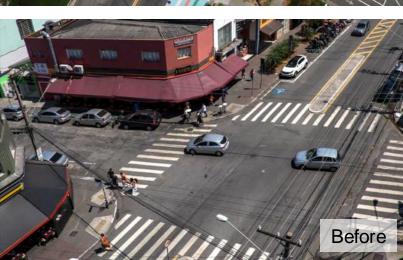








Intersection improvements in Porto Alegre, Brazil. Paint, traffic cones and planters create a small roundabout and footpaths are extended. Traffic speeds drop and crossings become much safer.





Source: WRI Brasil



Creation of roundabouts to improve road safety at an intersection – Tucson, US



Source: Scott Griessel







Traffic calming on this street in Brazil is achieved through the narrowing of the street. The footpath is widened with paint and flexible bollards.







Public spaces with seating, landscaping and playgrounds can turn (derelict) parking into vibrant urban spaces, serving far more people









Temporary street closures (e.g. Sundays, evenings)



Kids' activities on a street in Porto, Portugal



Monthly street market in Suva, Fiji



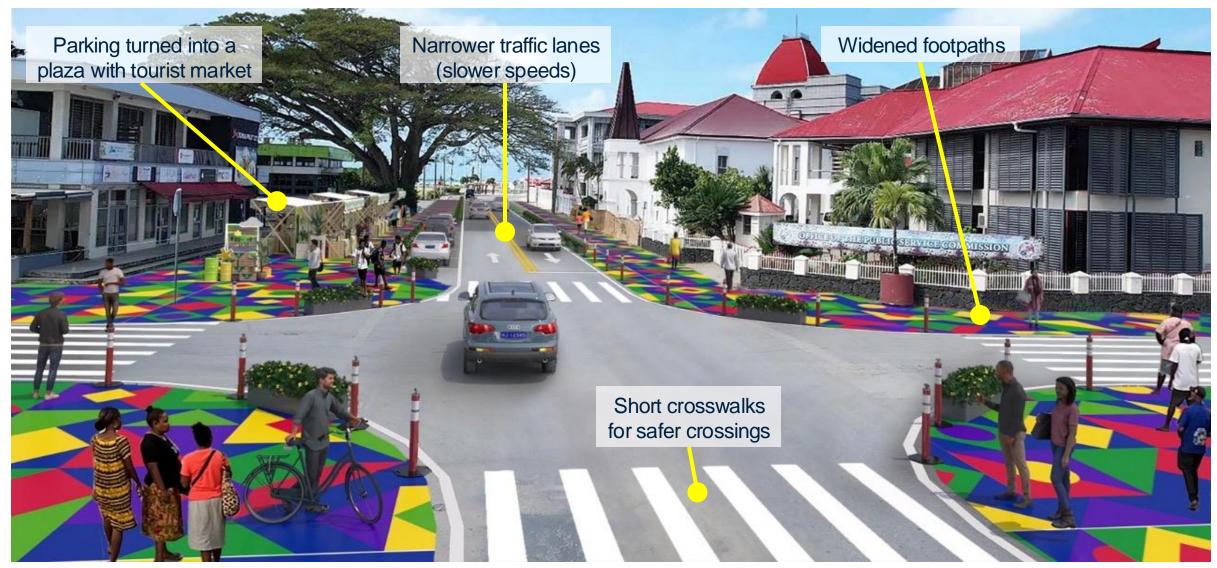
Example of an intersection treatment in Tongatapu: Taufa'ahau (Airport) Road – Salote Road















Honiara, St. Nicholas Anglican College Early Childhood Care Education





Quick, cheap and easy option

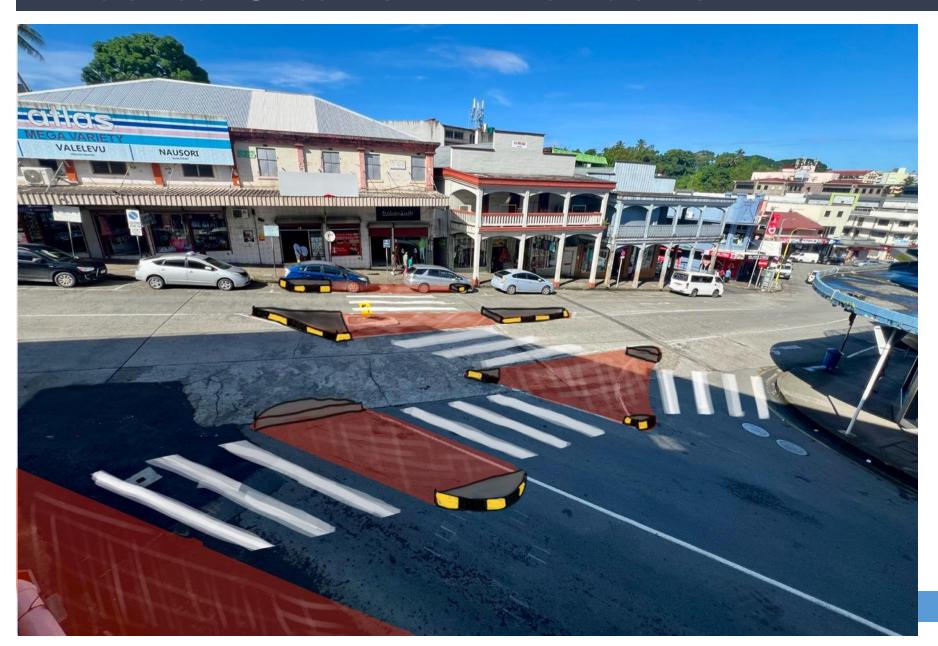
- Bollards prevent parking/stopping at entrance
- Road narrowing slows traffic
- Crosswalk improves visibility and traffic priority

Honiara, St. Nicholas Anglican College Early Childhood Care Education





Marks Street // Renwick Road, Suva, Fiji



Marks Street // Renwick Road, Suva, Fiji

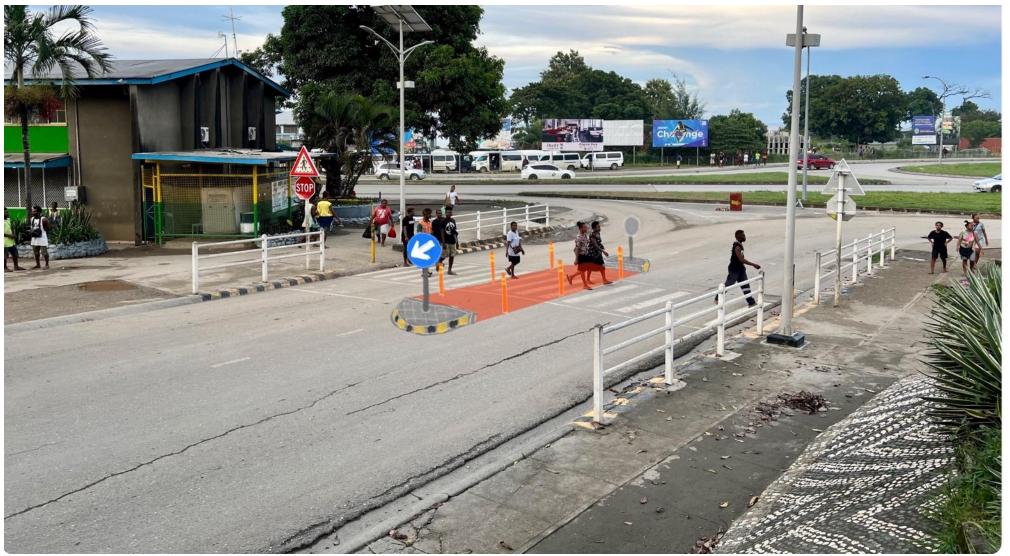


9-meter crossing of two lanes is too long

Traffic STOP signs are insufficient.
Street design needs to enforce desired traffic behavior

Honiara, Mbokonavera Rd





Pedestrian refuge island (>2.0m) improves crossing safety

Honiara, Mbokonavera Rd





Tongatapu, Airport Rd





Lane narrowing, bicycle lane, trees, public seating and amenities

Tongatapu, Airport Rd

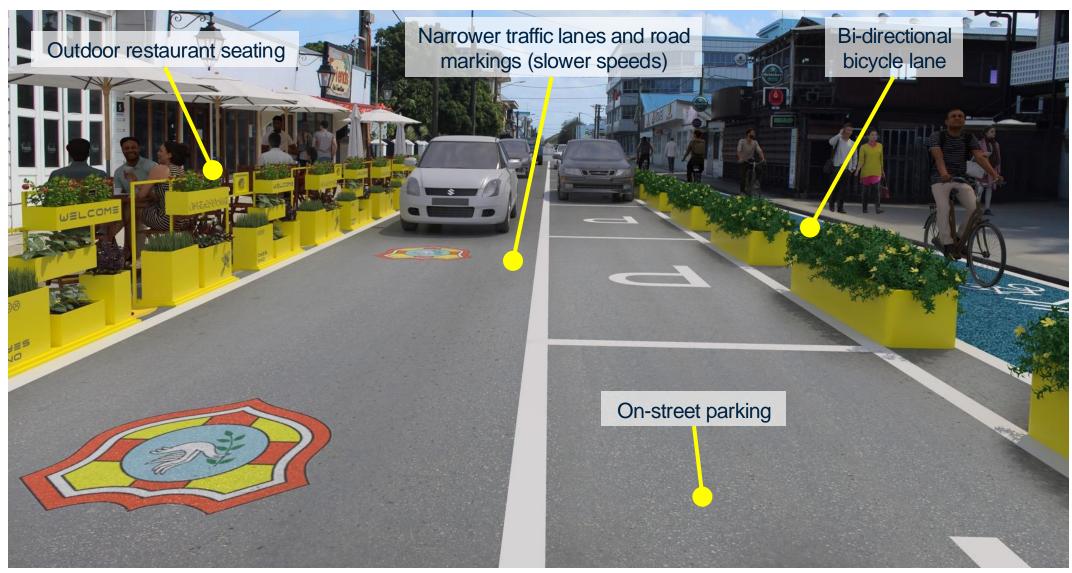


















Honiara, Kukute Street New Hope Academy Primary & Secondary



4. Tactical Urbanism in the Pacific



Traffic lane narrowing, shared street, covered drain, planter boxes, play spaces, cover

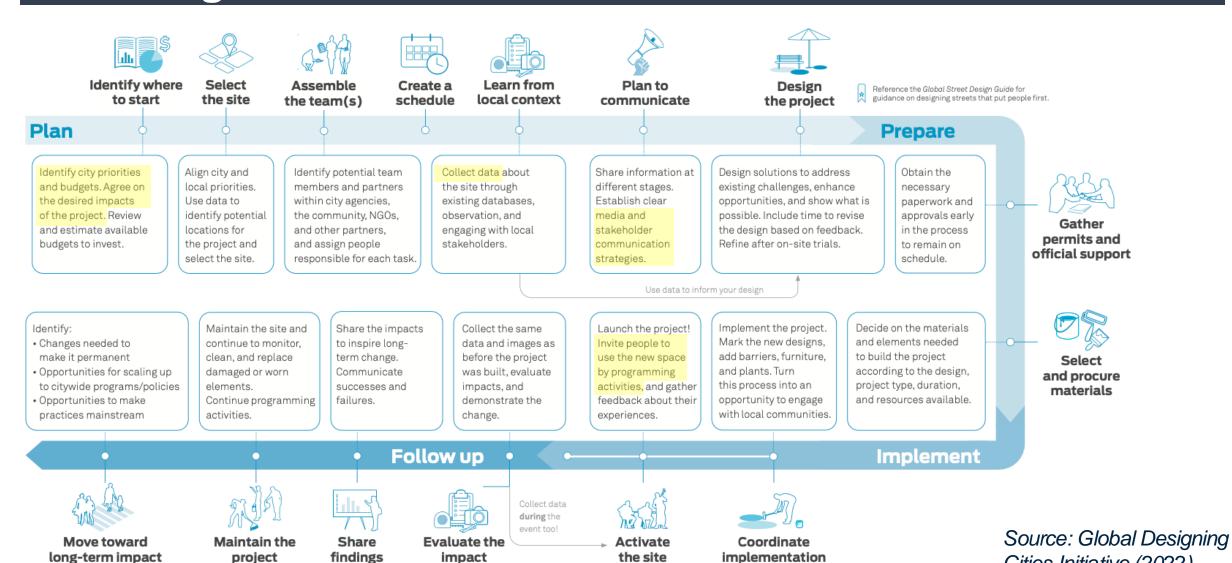
Honiara, Kukute Street New Hope Academy Primary & Secondary



5. Getting it Done

	TACTICAL URBANISM PROJECTS	TRADITIONAL PROJECTS
Priority	People-first	Vehicles-first
Materials used	Lighter, cheaper, easier to move, but less durable	Heavier, more expensive, fixed and more durable
Capital costs	Minimal	Tens to hundreds of times the cost of tactical urbanism
Construction time	Hours to days to weeks	Months to years
Flexibility	Easy, quick and cheap to make changes when designs turn out to be suboptimal	No flexibility; once completed it is there for decades
Community input in design	Local initiatives and concerns feed into the design process. High acceptance of community.	Technical specialists who only consult with community
Community role in delivery	Engagement of local creative sector, involvement of community in development and volunteers in delivery	Traditional procurement, with little emphasis put on community growth or local suppliers
Communication	Public dialog focused on testing and adapting, permission to try, innovation	Seeking acceptance of permanent solution
Degree of certainty	Acceptance and recognition of uncertainty. Low-risk trials, with potentially a high reward	Perception that outcomes are fully understood and an expectation that the project will achieve them
Skill-sets required	Community development, place-making, design-thinking, facilitation, marketing	Transport planning, engineering, public consultation, road safety auditing, business case writing
Knowledge development	Building of organizational capacity between community groups, public/private institutions, non-profits/NGOs	Focus on learning and building capacity between client and consultant teams

5. Getting it Done





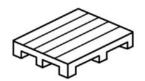
Cities Initiative (2022)

5. Getting it Done

ROW demarcation

Surface marking











- Traffic cones
- Delineators
- Jersey barricades
- Traffic buttons
- Pavement markers
- Nylon ropes
- Wooden pallets
- Tyres
- Floor marking tape
- Duct tape
- Reflective tape
- · Acrylic distemper paint
- · Floor coat emulsion paint
- Water based epoxy paint

Mostly available at local hardware stores!

Seating livability









- Wooden Crates Buckets/ Used paint buckets
- Flower pots/ plants

Wooden Pallets

Tyres

<u>Signage</u>









Acrylic distemper paint

Source: GI7

- Thermoplastic paint
- Spray paint
- Reflective boards
- Easels
- Mill board/ MDF board
- Cardboard

Lighting



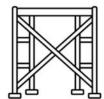




- Casuarina Poles
- Serial Sets

Shade structures

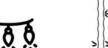








- GI/ Steel pipes
- Bamboo Poles
- Casuarina Poles
- Fabric
- Canvas
- · Reed/ Cane mats







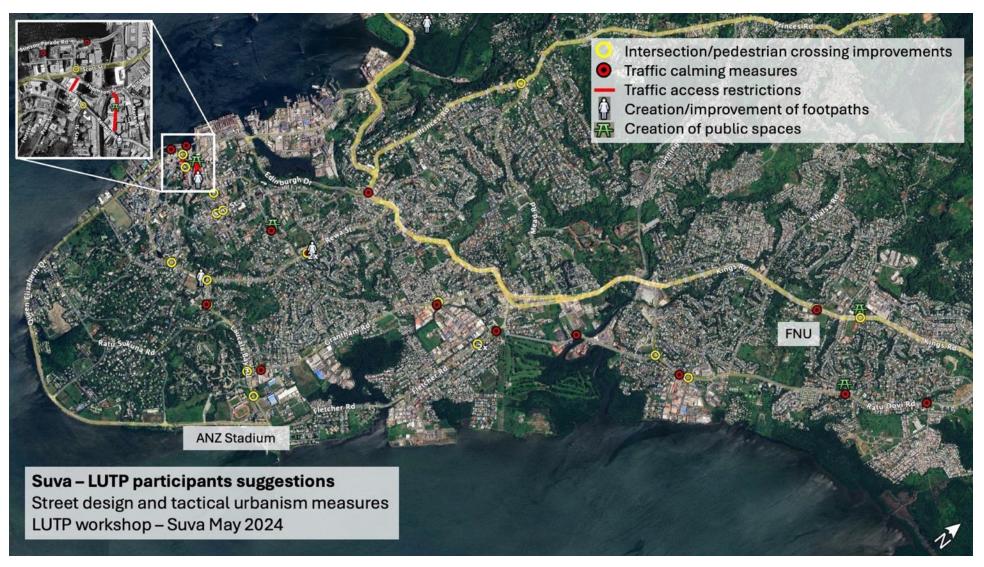
Types of projects:

- 1. Pedestrian walkways
- 2. Bicycle lanes
- 3. Intersection and crossing treatments
- 4. Traffic calming
- 5. Plazas and parklets

Most applicable locations:

- School areas
- Commercial areas: markets, shopping streets, CBD
- Residential neighborhoods

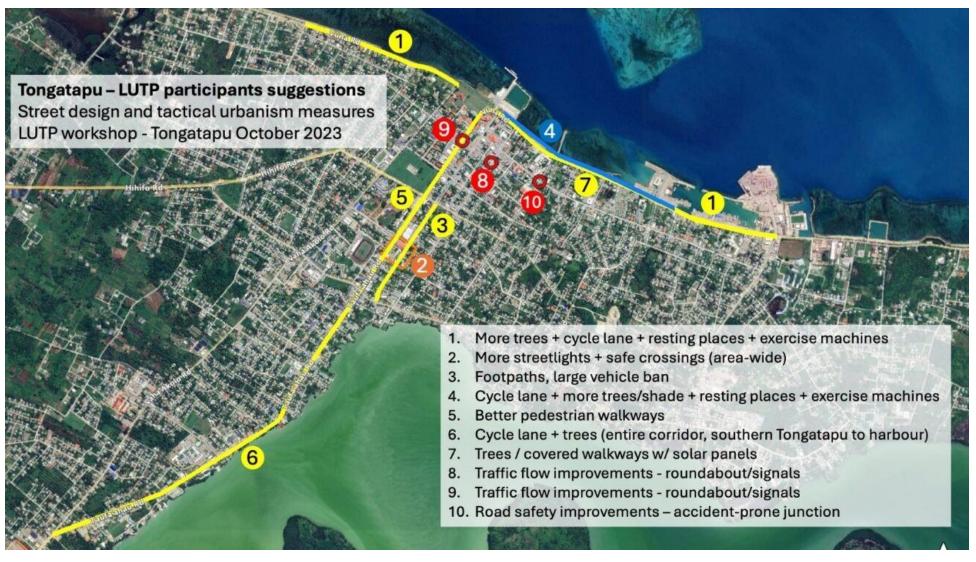




Suva, Fiji

Workshop participants in Suva identified numerous locations for tactical urbanism measures





Tongatapu, Tonga

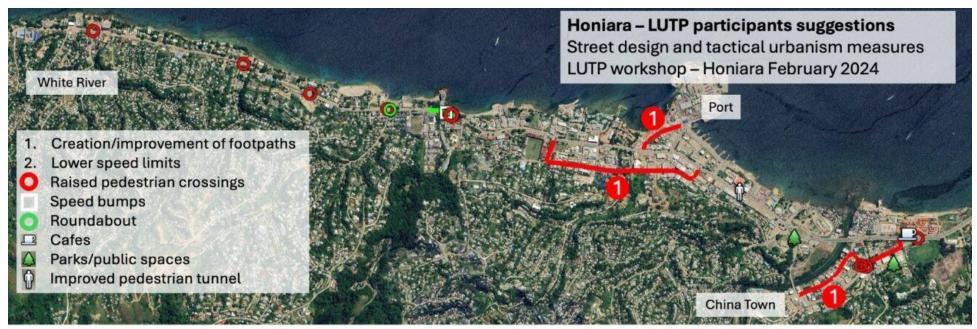
Workshop
participants in
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South Tarawa, Kiribati

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Honiara, Solomon Islands



Workshop
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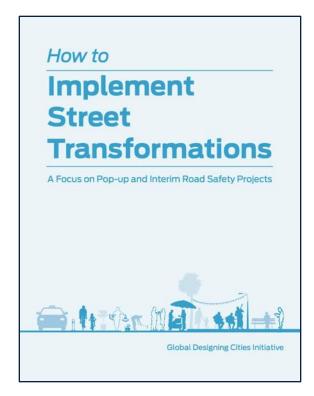


Possible partners / projects:

- Schools 'Streets for Kids' Program
- Chamber of Commerce commercial revitalization plans, car-free days
- Ministry of Education partnering in a possible School Streets Program
- Ministry of Tourism improvement of streetscapes around ports and tour sights for enhanced tourism appeal
- Churches
- Development partners:
 - Funding for standalone tactical urbanism projects
 - Incorporation of street improvements as part of school (re-)construction projects
 - Use of tactical urbanism in the testing of large-scale infrastructure improvements
- Waka Kotahi, New Zealand have an extensive (incl. online) training and capacity building program for cities



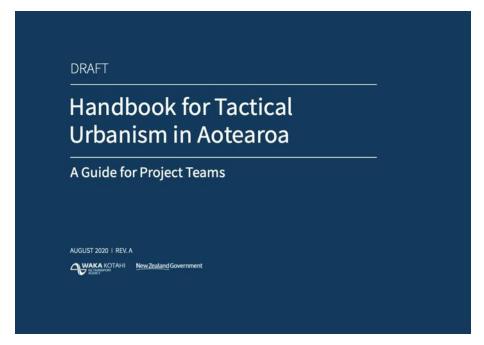
Further Reading - Tactical Urbanism



Global Street Design Guide (2022)

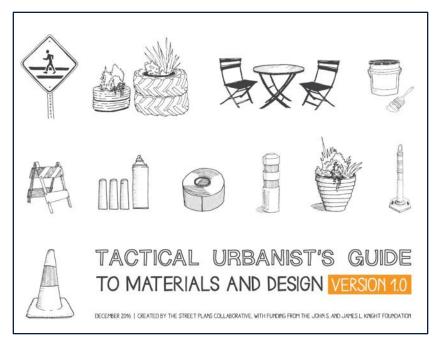
 by Global Designing Cities
 Initiative. Practical guide with designs, step-by-step manuals, and best practice examples and inspiration.

Download for free here



Handbook for Tactical Urbanism in Aotearoa (2020) – by Waka Kotahi, NZTA. Practical guide with designs, design toolbox, examples and inspiration.

Download for free here



Tactical Urbanist's Guide to Materials and Design (2016) Street Plans Collaborative. Practical guide with designs,

design toolbox, material guide and lots of examples and inspiration.

Download for free here



Questions & Discussion

Please raise your questions, concerns, challenges and ideas.

Thank you!





GET IN TOUCH AT BRAM@VOMOBILITY.COM



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