

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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Bridging the Security of Tenure Gap: Fit-For-Purpose Initiatives

Kees de Zeeuw, Paula Dijkstra and Christiaan Lemmen (Netherlands), Eva-Maria Unger (Austria), Mathilde Molendijk, Ernst-Peter Oosterbroek and Christelle van den Berg (Netherlands)

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The security of tenure gap to be bridged ...

	Total	SSA	ECA	LAC	MNA	OECD	SAS	EAP
Private plots in city registered	0.22	0.04	0.32	0.03	0.14	0.68	0.25	0.24
Private plots in city mapped	0.46	0.13	0.60	0.31	0.48	0.97	0.25	0.52
Private plots in country registered	0.22	0.04	0.32	0.03	0.14	0.68	0.13	0.24
Private plots in country mapped	0.24	0.02	0.40	0.03	0.14	0.71	0.13	0.28
No. of countries	189	47	25	32	21	31	8	25

Source: K. Deininger – World Bank (2017)

- SSA – Sub-Saharan Africa
- ECA – Europe and Central Asia
- LAC – Latin America and the Caribbean
- MNA – Middle East and North-Africa
- SAS – South Asia
- EAP – East Asia and the Pacific

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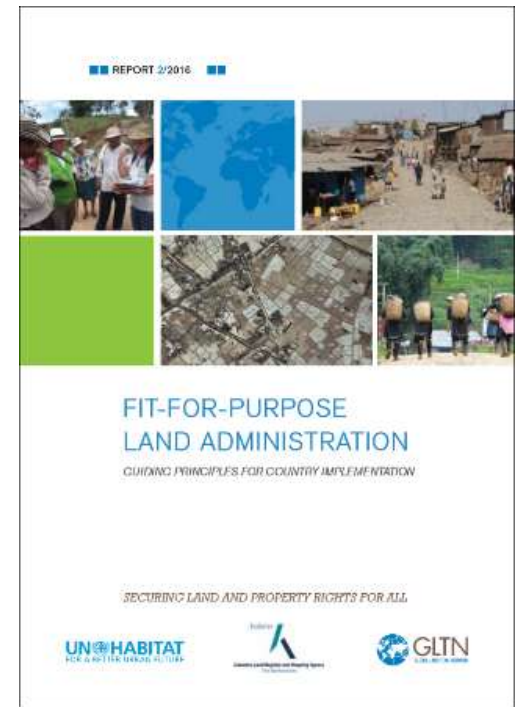
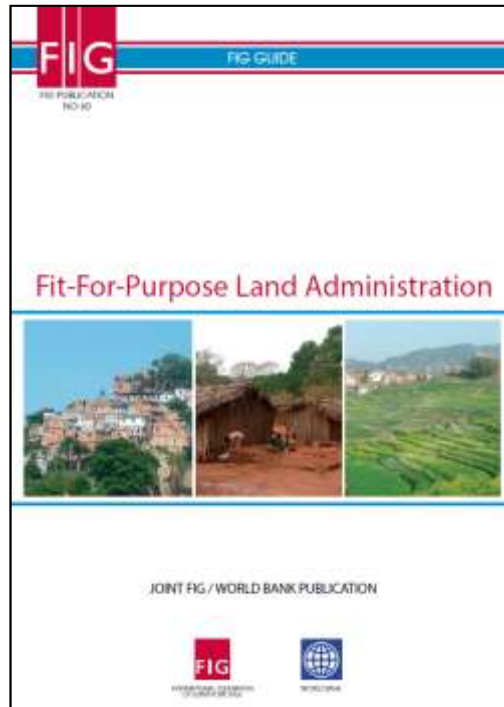
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Fit-For-Purpose Land Administration



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Theory

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KEY PRINCIPLES



visual boundaries



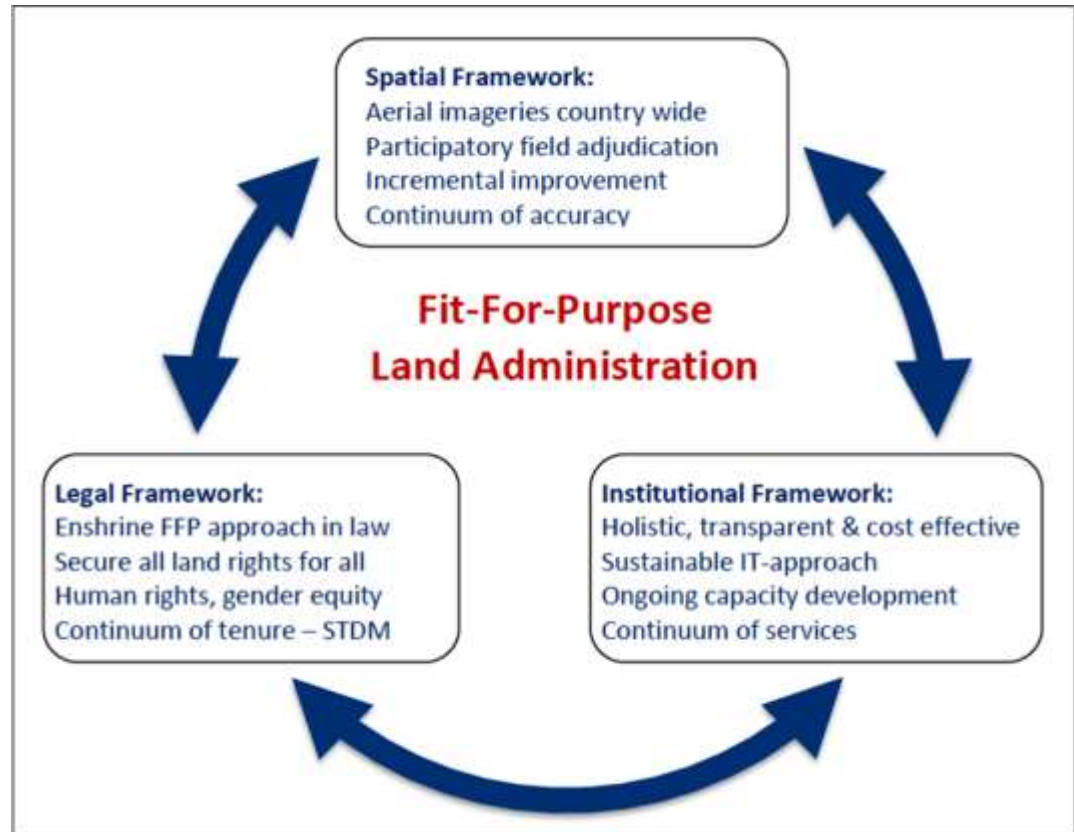
accuracy relates to the purpose



aerial imagery rather than field surveys



opportunities for updating, upgrading and improvement



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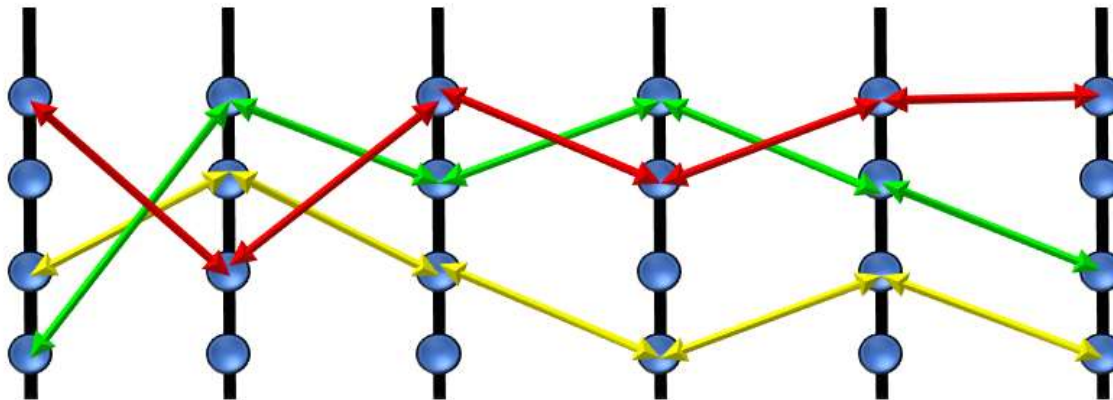
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Fit-For-Purpose Equalizer



Land Rights Right holders Spatial units Acquisition Methods Land Recordation Purpose

- Criteria: Quality, cost, time
- Requirements: standards (LADM), Software, Capacity

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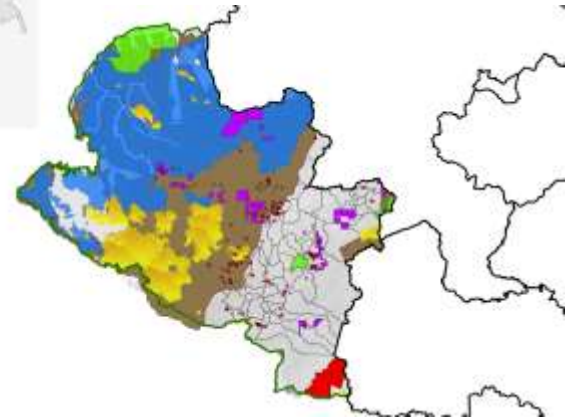
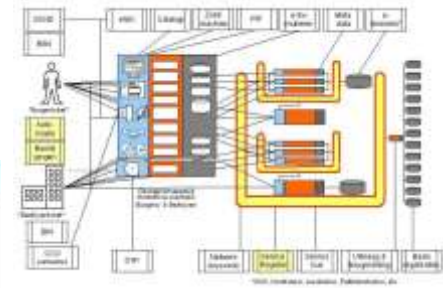
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Scaling Up

- LADM
- FFP method
- IT
- Capacity
- Budget
- Interoperability
- ...



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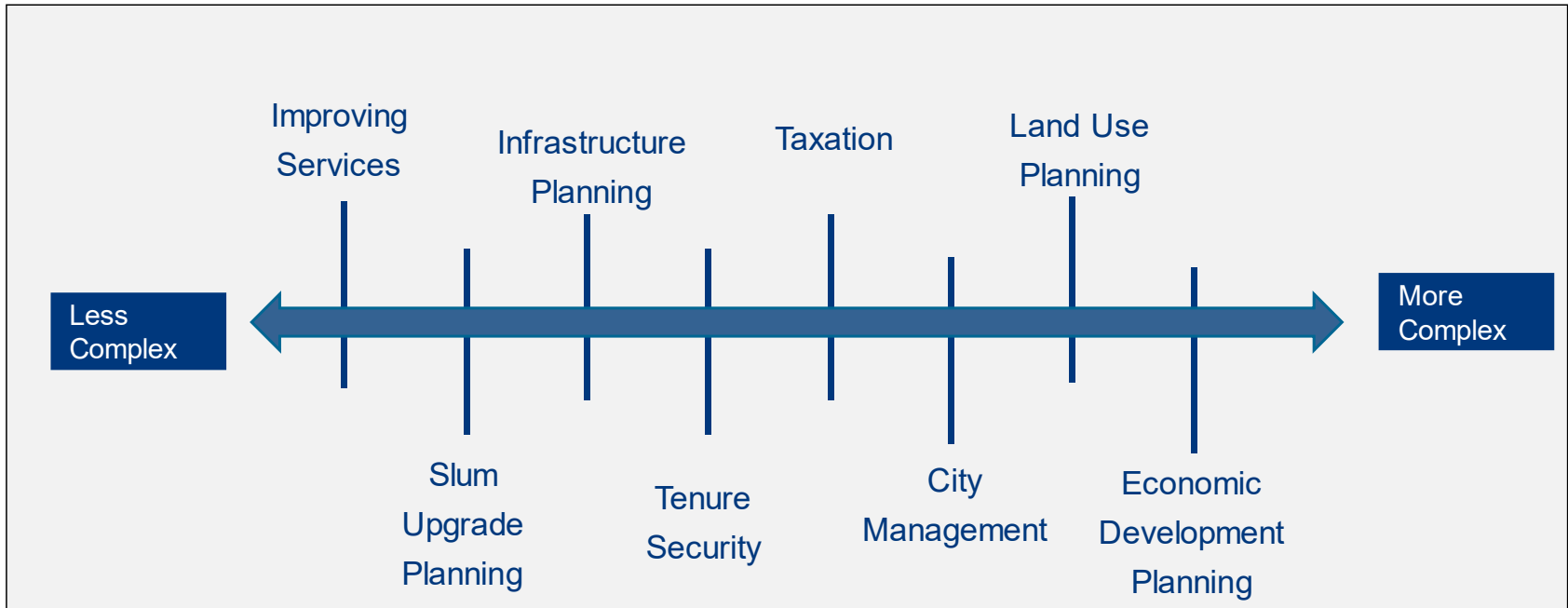
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Scaling-forward



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Scaling-forward

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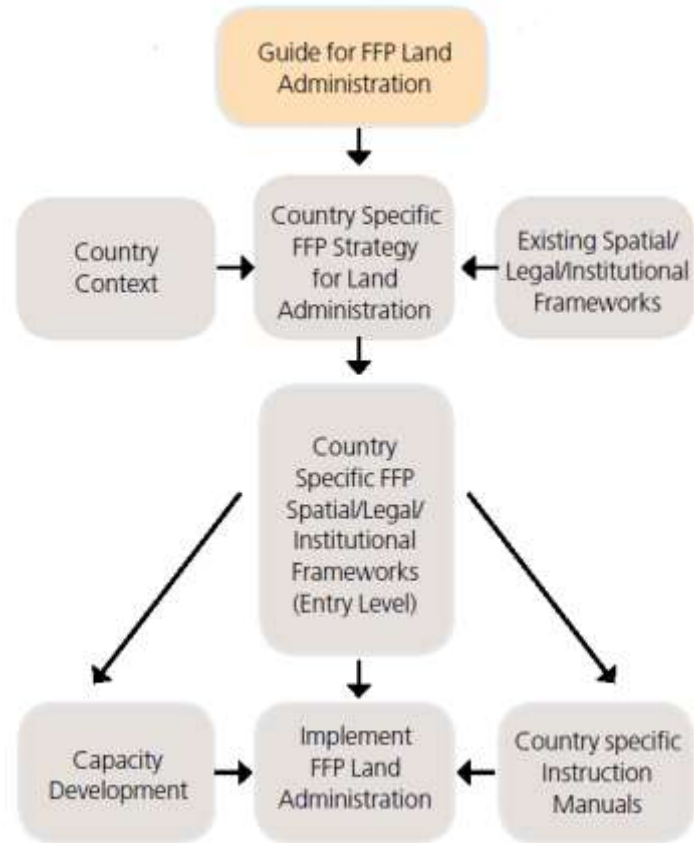
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Country Implementations



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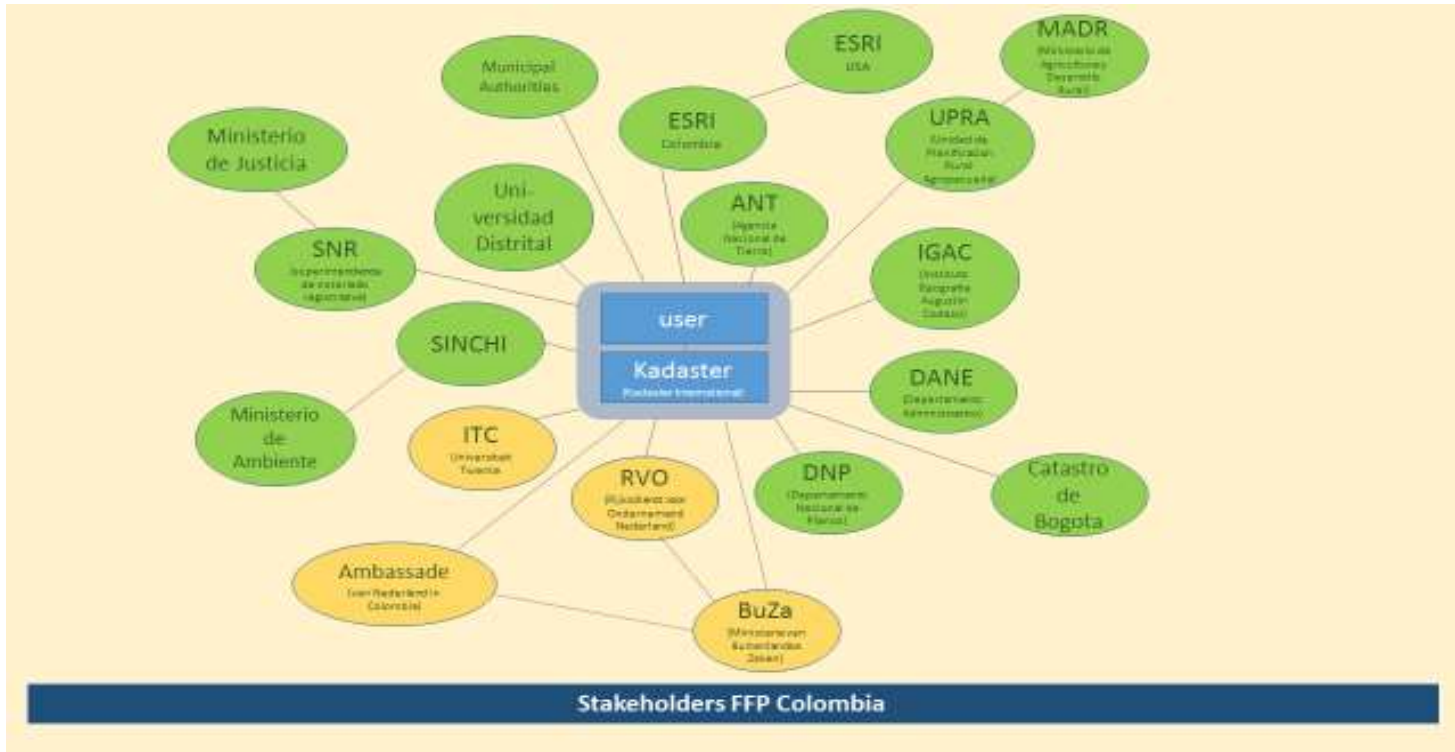
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Colombia



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Data Collection



Photo's Liliana Merizalde

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Data processing



Boundary Status	Color
No Data	Black
In Progress	Yellow
Approved	Green
Rejected	Red

First Name	Last Name	Citizen #	Gender	Doc. Photo	Face Photo	Registered On
Nguyen Tran	Sachin	6007905	Male	Yes	Yes	20 Feb 2019 14:20

Courtesy: Javier Morales

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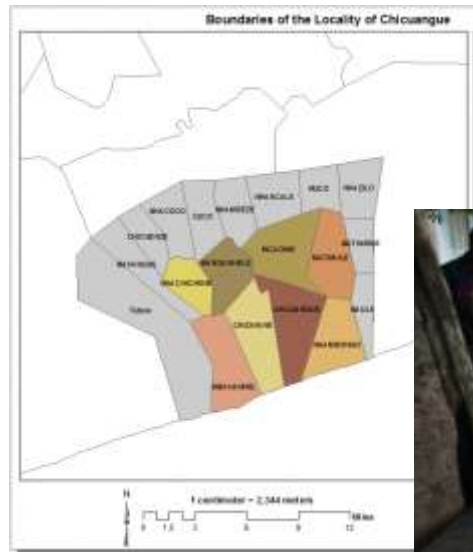
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Mozambique



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Indonesia



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Community based participatory mapping



Universitas
Gadjah Mada



Jaringan Kerja Pemetaan Partisipatif

MERIDI*A*

kadaster



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Nepal



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Capacity building: Visual boundaries



DOLKHA HOUSEHOLD² ENUMERATION QUESTIONNAIRE

दोलखा घरधुरी गणना प्रश्नावली

Rev. 17.07.2017

A. ENUMERATION गणना	
1. Questionnaire number* ² प्रश्नावली नम्बर	
2. Name of enumerator* (Last name, other names) तथ्यांक संकलकको (थर, नाम)	
3. English date of enumeration (dd/mm/yyyy) * तथ्यांक संकलन अंग्रेजी मिति (राते महिना/साल)	
4. GPS ID number जि पि एस आइडी नम्बर	
5. Camera ID number क्यामरा आइडी नम्बर	
B. RESPONDENT उत्तरदाता	
6. Name (Last Name, other names*) थर, नाम	
7. Mobile number मोबाइल नम्बर	
8. Gender* <u>पिंग</u>	<input type="checkbox"/> Female महिला (1) <input type="checkbox"/> Male पुरुष (2) <input type="checkbox"/> Other अन्य (3)



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Participatory: paper - digital



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Mapping and recordation options



Location

- In the Field



- Community Gathering



Main Mapper

- Grassroot surveyor



- Surveyor

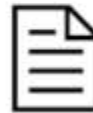


Material

- Digital



- Paper



Mapping Tool

- Imagery

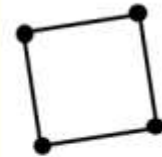


- GNSS

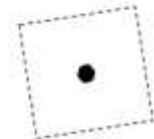


Mapping Technique

- Polygons



- Points



Lemmen, Unger, Bennett

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Automated Feature Extraction - Boundaries



Courtesy: Divyani Kohli

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Conclusions

- FFP method: Scale-up and scale-forward
- FFP is about change management
- Requirements are country/region specific
- FFP is under development: Innovation, stakeholder involvement and customisation
- Land rights for all is feasible: Technical support, advocacy and guidance should be organised.

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Conclusion

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10 – 14 MAY

www.fig.net/fig2020

Smart Surveyors for Land and Water Management

