

Good to „see“ you all !!

We will be starting soonbut before that.....



The session will be recorded, if you don't agree, keep your camera off or just watch the recording that will be made available via TUEWAS YouTube channel afterwards



Kindly let us know where you are based and your project/function



If your connection allows, feel free to keep your camera on during the discussions



Please keep your microphone muted unless you are speaking



If you have a question or comment, please post it in the chat or



In the Q & A session you can also virtually “raise your hand” via MS Teams

Learning Lab

Digital tools for urban managers and planners

20 June 2022, 9:00 – 11:00 CEST



Competence Centers Democracy, Digital Governance, Urban Development and Digital Societies of the FMB

Working Group eGovernance and Digitalisation

Transformation - Urban Opportunities - Climate Change (TUrbOcliC)



Cross-sectoral group of the TUEWAS and SNGA network of GIZ

With special thanks to SUD-SC II project

Programme

1. Welcome
2. Setting the scene and activation – Stories of Learning
3. Inputs & Joint discussion
 1. **Lessons from TOSCA: Toolkit for Sustainable City Planning & Analysis** - Sumana Chatterjee and Nina Graefenhahn
 2. **Meaningful and inclusive (digital) participation in urban planning and management: Not without PartiCipate!** - Lisa Hiemer-Maqoma
 3. **Remote Sensing and Geographical Information** - Gunnar Hesch
4. Crowd mapping and categorizing digital tools together in an interactive format
5. Input about IT-procurement – **what to consider when purchasing digital planning and participation tools and where to find help** - Anne Doose

Welcome



Mohammad Ishtiuq Hossain
(Senior Advisor, ACCNLDP II, Bangladesh)

***WG Speaker
SNGA***



Sebastian Markart
(Cluster, Climate Smart Cities Project, India)

***WG Speaker
TUEWAS***



Mahmudur Rahman
(AV, ACCNLDP II, Bangladesh)

***WG Speaker
eGovernance &
Digitalization,
SNGA***



Anne Doose
(Senior Advisor for Digital Governance, FMB)

***eGovernance &
Digitalization WG
Tandem Partner***



Charlotte Pusch
(Advisor SUD-SC, India)

***Co-initiator of the
learning lab***



Luci Maia
(TUrbOCliC Consultant)

Good bye and **thank you** to Vaishali

- Vaishali has been member of the network since 2009, as a speaker since 2015, a strong and committed advocate for the topic. She is of course staying part of our group but handing over speaker responsibilities.
- We want to say thank you so much and keep up your amazing work, dear Vaishali...



Who else is here with us today.....a big thanks already! :)



Sumana Chatterjee
Technical Expert -
Sustainable Urban
Development –
Smart Cities



Nina Graefenhahn
Advisor -
Sustainable Urban
Development –
Smart Cities



Lisa Hiemer-Maqoma
Advisor for Digital
Governance in the
Competence Centre
Democracy, Digital
Governance and Urban
Development



Gunnar Hesch
Advisor for
geospatial data in
the Digital Societies
Competence
Centre

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Activation

- YOUR TASK: write, draw or visualize your story of Learning
 - Steps:
 - Take a post-it in any colour of your choice
 - Think for a moment: your most significant lessons learned/story regarding digital planning or management: what has worked? What hasn't? Why?
 - Write down or visualize the story
 - Feel free to share your story afterwards

https://miro.com/app/board/o9J_lrYpyE0=



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Lessons from TOSCA: Toolkit for Sustainable City Planning & Analysis

(Interactive Urban Development Tools)

earlier Cityscope/ OCTIP

Sustainable Urban Development – Smart Cities II



Implemented by



HCU

HafenCity Universität
Hamburg

City Science Lab
A Cooperation with the
MIT Media Lab

Urbanisation and Data: missing linkages

- Current rate of urbanisation– poses **urban planning and governance challenges**→ **impact quality of life** of citizens
- **Limited availability of standardised/real time spatial and attribute data at city level** → **challenges sustainable development of cities**

Approach

- Develop digital **system that integrates** different **layers of information for informed decision making**
- Meet aspirations of stakeholders using **interactive and participatory planning tool**



TOSCA: an introduction

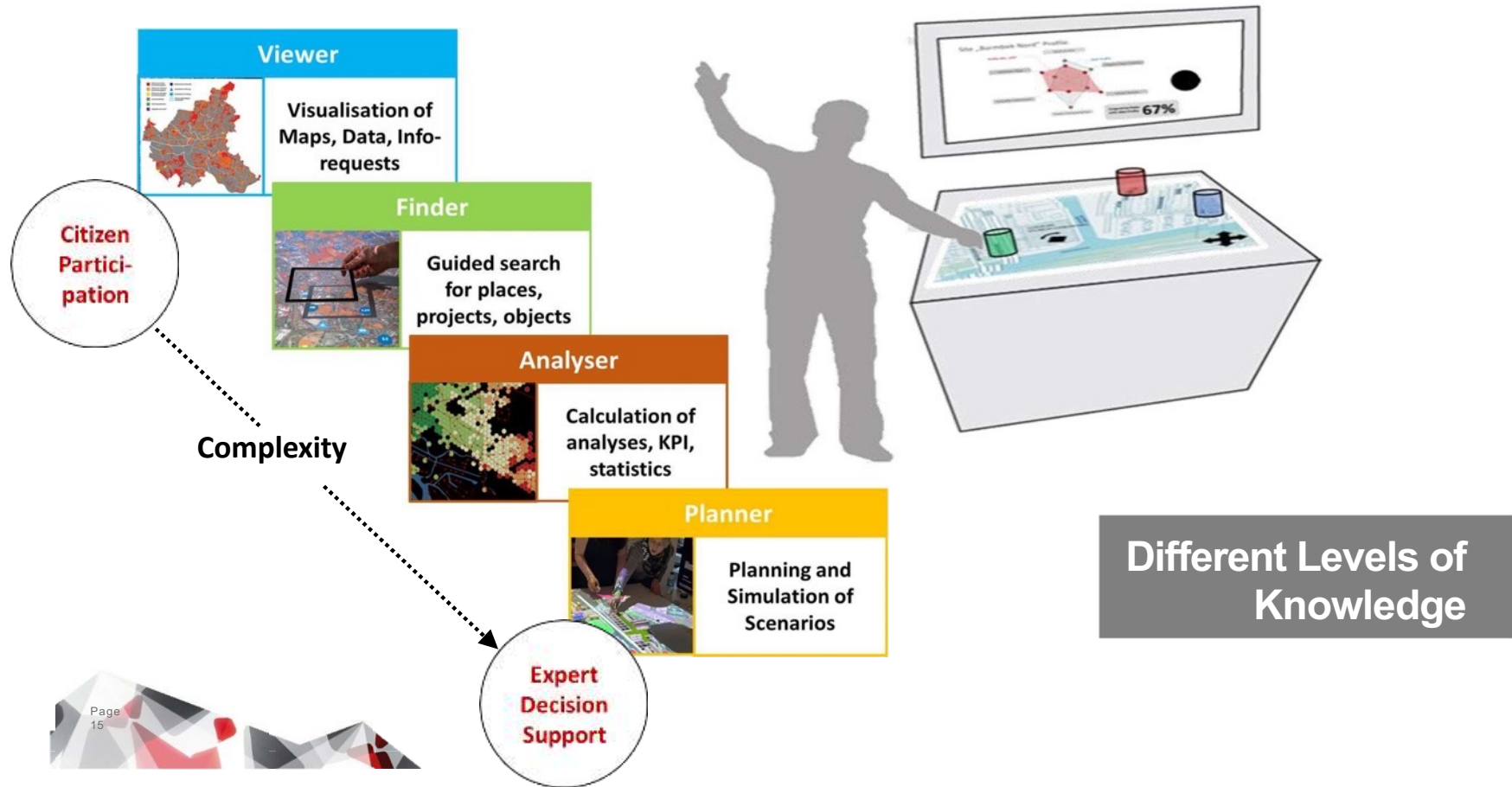
- **Decision Support System**, jointly developed by the City Science Lab HafenCity University (HCU), Germany and MIT Media Lab, USA
- **Interactive digital tool** that helps to **analyse urban relationships**, simulate development ('what-if') scenarios using **spatial and attribute data** to develop optimal/sustainable solutions in urban planning
- **Visual feedback on potential impacts** of proposed developments by **using multifunctional relationships**
- Developed using **open-source (GRASS- *Geographic Resources Analysis Support System*)**
- **Participatory planning** for all key stakeholders to **find acceptable solutions**



Idea: Toolbox



Toolbox

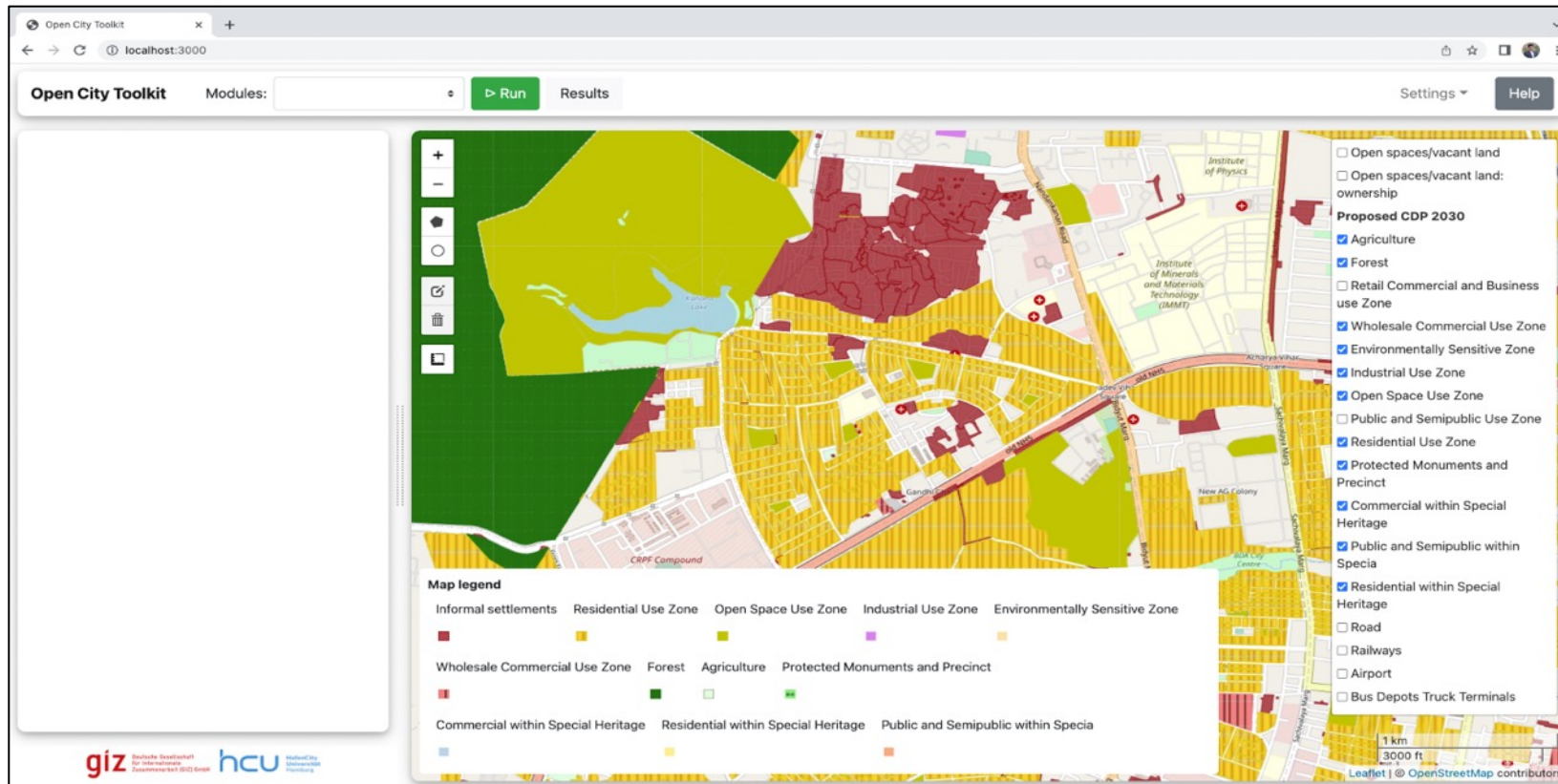


Bhubaneswar, India

**Examples
of use
cases with
TOSCA**

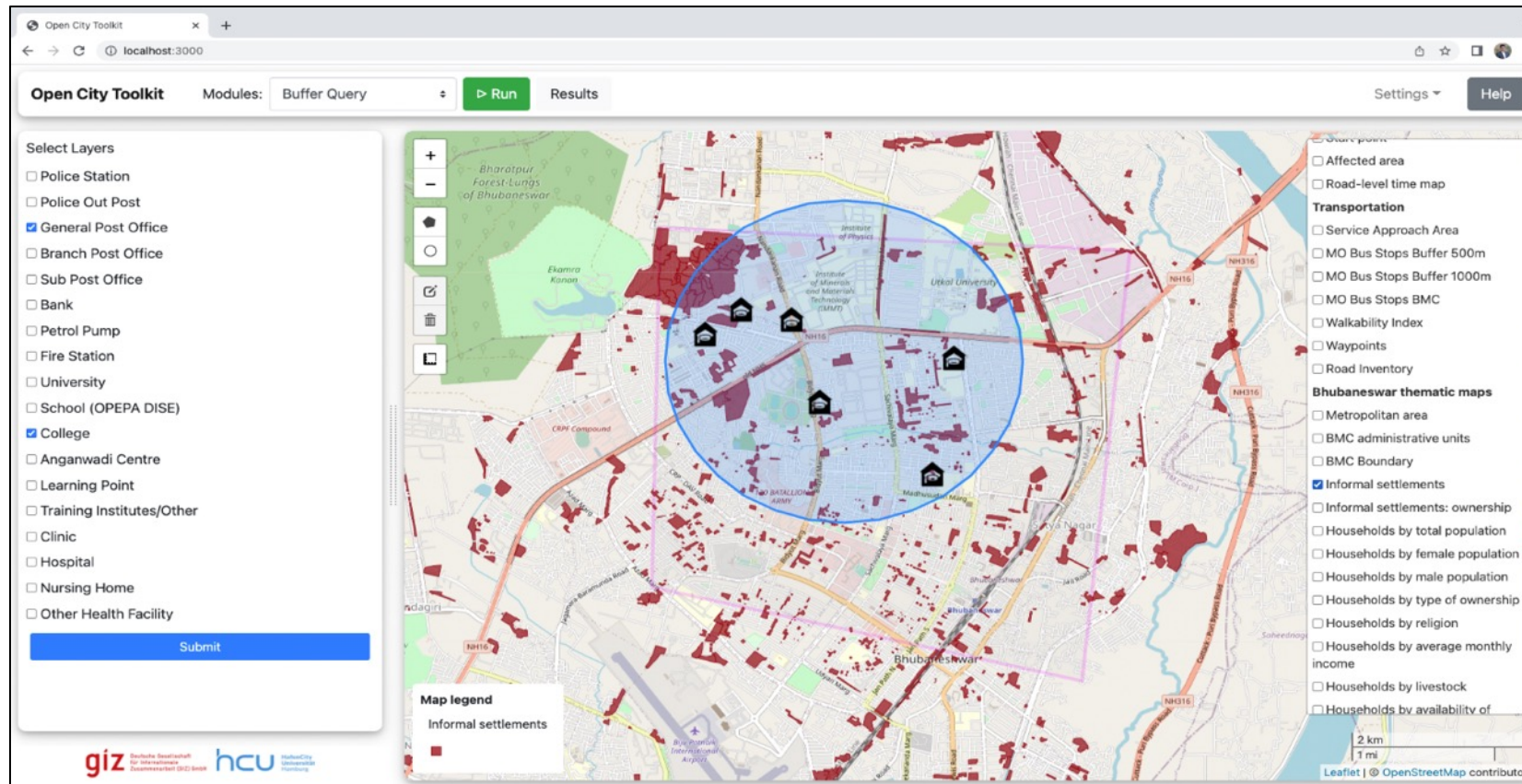


Use Case #1: Land ownership in slums



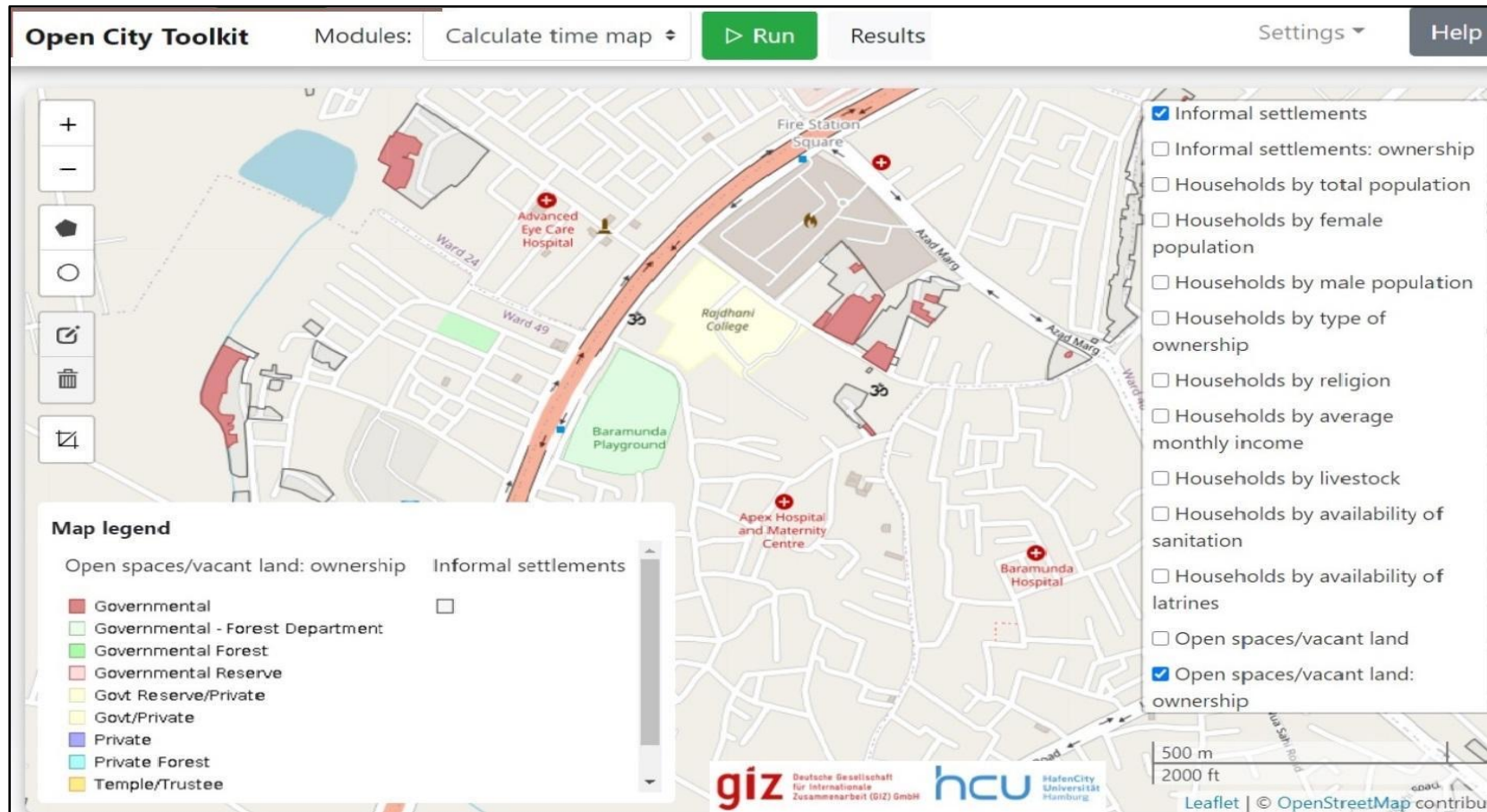
The characteristics of slums (land use, land ownership) in the city was studied and mapped to aid in slum relocation planning. 'Layer overlay' module was developed to help users locate the settlements by the land ownership type and compare it with the existing situation with respect to the proposed land use development.

Use Case #2: Access to public amenities in and around slums



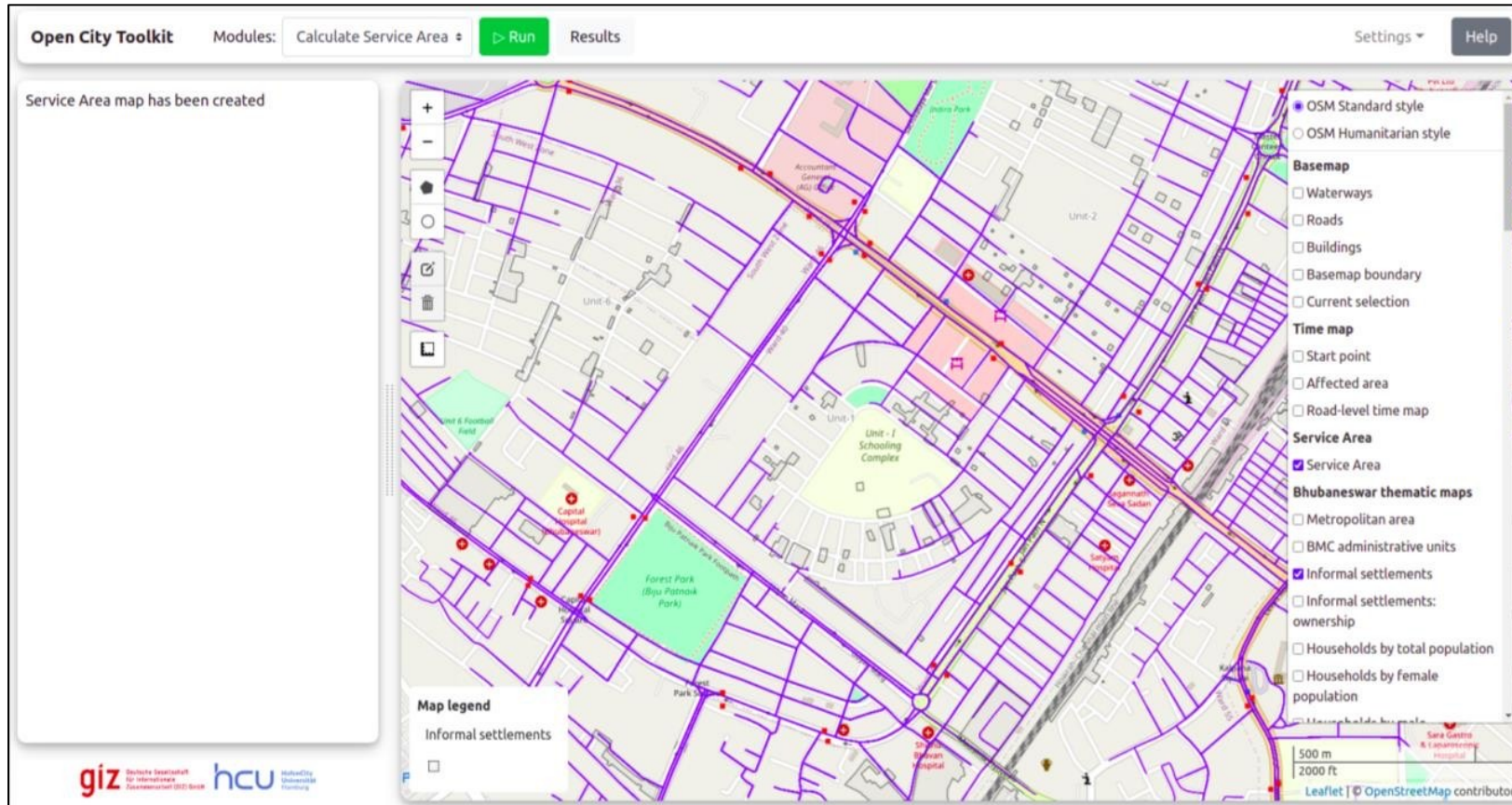
The types and number of public amenities/facilities present within a walking distance from the informal settlements (viz., health care facilities, education institutions) was assessed to aid in addressing the demand-supply gap with further plan provisions. Both 'Layer overlay' and 'Buffer' modules were developed to locate the selected Points of Interests (Pols) in the slums.

Use Case #3: Identification of housing relocation sites for slums



Decisions on slum rehabilitation in affordable housing sites, involve a detailed analysis on site selection for better planning, in order to ensure inclusivity of existing socio-economic ties of slums in the relocated sites. In this use case, Layer overlay and Time map modules were used to identify land ownership wise nearest available/ suitable vacant sites for the slums.

Use Case #4: Accessibility mapping to public transport bus stops



The coverage of public transport in the city was examined for better planning of bus stops and routes and to find settlements that are not serviced by the existing public transport system. A new module 'Service Approach Area' (SAA) was developed to support planning of public transport based on population distribution, network analysis (service area) among others.

Learnings

What worked well?

- Sustained technical cooperation between HCU in Germany, GIZ and consultant in India
- Cross-project exchange between SUDSC and SUT for the city of Bhubaneswar
- Technical exchange and knowledge sharing with other partner states/ cities for using the tool
- Project documentation on tool development and software design
- Development of video tutorials and user manuals



What were the challenges?

- Repeated change in project leads (GIZ and HCU)
- No face to face partner consultations/ workshops for identification of user needs and tool demonstration
- Denial to partner premises entry; unattended communications
- Discontinued interest of the partners in application of the tool with change in priorities
- Conducting training needs assessment and capacity development of end users
- Institutionalisation/ operationalisation of the tool with the partner department

Ideas to do it better

Use case and module development	Process development and implementation	Capacity development and institutionalization
Kick-off workshop defining use cases with gov. officials at local level	Set up software at institutions	CD strategy for end user
2 new (shared) use cases to be upscaled to other cities	Develop transfer package (human resource plan/ sustainable financial plan)	Develop training modules, Training of Trainers from gov., private sector etc.
3 new analysis modules	Implementation methodology (SOP's) Knowledge dissemination	Linking TOSCA training modules with gov. modules



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315.000.000 RESULTS

Meaningful and inclusive (digital) participation in urban planning and management: Not without PartiCipate!

20.06.2022

Lisa Hiemer-Maqoma | Sectoral Department, Division Governance and Conflict

Objectives



At the end of this short input, you will

1. have a good understanding of some conceptual foundation for meaningful **Digital Participation**;
2. have learned about the tool **PartiCipate**;
3. have reflected on some **potential use cases** of PartiCipate in your (urban planning) project context.

To start with.

Meaningful (digital) citizen participation is NOT about hosting a singular public event or providing an app.

To start with.

Meaningful citizen participation needs resources.

To start with.

Citizen participation is most meaningful when done in a blended manner.

Reality check.

Dear GIZ, we would like to build an App for citizen participation...!!!



Our combined advisory package

Package 1

Position Paper „Public Participation in a Digital Age“ with 6 quality criteria for meaningful digital participation

Package 2

PartiCipate – A digital advisory tool to design your participation strategy and choose relevant methods

Package 1 | Position Paper „Public Participation in a Digital Age“

- Re-conceptualising existing concept of constructive state-society relations
- Development of 6 core principles for GIZ advisory services

Position paper by the Sectoral Department

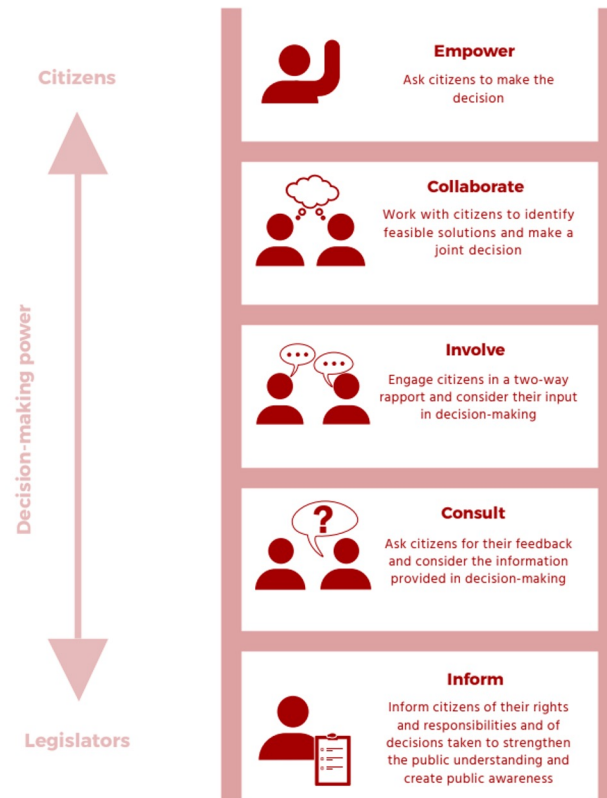
Public participation in the digital age

Our position

■ Digital (participation) approaches unfold their potential when combined with analogue participation concepts.

We focus on a comprehensive participation strategy as the basis for selecting and designing specific participation formats

Package 1 | Position Paper „Public Participation in a Digital Age“



6 Principles

Blended participation
= combine analogue /
face-to-face with digital
formats

User-focused
approaches ensure
uptake

Strengthening state
capacities

Include a trained
moderator to enable
constructive dialogue

Be intentional about
which data are
necessary to be
collected from
citizens

Use potential to improve
the feedback loop on
participation
processes/procedures

Our combined advisory package

Package 2

PartiCipate – A digital advisory tool to design your participation strategy and choose relevant methods

Google digital citizen participation

315.000.000 RESULTS



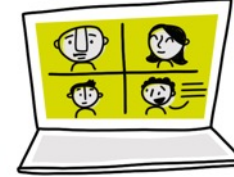
Illustration: ANJRIESE.COM

COSTS?



DIGITAL TOOLS

Digital TOOLS



FACE to FACE EVENTS



Illustration: ANJRIESE.COM

our SOLUTION:



⇒ NEEDS & CONTEXT ASSESSMENT

⇒ PARTICIPATION Methods

⇒ DIGITAL PLATFORMS

Illustration: ANJRIESE.COM

in less than 10 Min.

Your ADVICE



FREE SERVICE

1StopShop



Illustration: ANJRIESE.COM

PartiCipate

= A **digital One-Stop-Shop** for creating and designing meaningful (digital) participation processes

- GIZ Innovation Fund Winner 2020
- What you get as User:
 - Customized (digital) participation methods and formats depending on your context
 - Information on suitable Open Source Participation platforms

**GIVE CITIZENS
A VOICE THROUGH
DIGITAL PARTICIPATION**

We help build your digital platform for citizen participation

Let's Test.

<https://participation.digital>

A photograph of an office environment. In the foreground, a woman in a red top is seated at a desk with a computer monitor. To her right, another woman in a black blazer is standing and looking at a laptop. In the background, a man in a black t-shirt is standing and talking to another woman. A notice board with Armenian text is visible on the wall. A semi-transparent white banner with a red question mark is overlaid on the image.

Hungry for information on Digital Participation?

Read on

1. GIZ Position Paper “[Public Participation in a Digital Age](#)”
2. TOPIC Page [Digital Governance and Society](#)
3. TOPIC Page [Political and social participation](#)
4. BMZ [Digital Agenda](#)
5. BMZ [Toolkit Digitalisation](#)
6. Digital Impact Alliance (DIAL) [Principles for Digital Development](#)
(endorsed by GIZ in February 2018)

Kontakt



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www.giz.de



https://twitter.com/giz_gmbh



<https://www.facebook.com/gizprofile/>

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A satellite image of a river delta, likely the Amazon, showing a complex network of channels and islands. A red satellite icon is positioned in the upper left quadrant. A semi-transparent white banner is overlaid on the bottom half of the image.

Remote Sensing for Development Cooperation

A short introduction + how to get engaged

Network of Remote Sensing and Geographical Information

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

The background of the slide is an aerial photograph of a river network. The rivers are shown in shades of yellow and orange, winding through a landscape of green and blue. A semi-transparent, light blue map overlay is positioned in the lower-left quadrant, showing a similar river network pattern. The text 'Remote Sensing' is written in a large, bold, black font, and 'A short introduction' is written in a smaller, regular black font below it.

Remote Sensing

A short introduction

1. Relevance of Remote Sensing for SDGs

- Remote Sensing contributes to almost all SDGs
 - Remote Sensing and geospatial information contributes to **progress in targets** of 16 out of the 17 SDGs

e.g. Target 2.c “Adopt measures to ensure the proper functioning of food commodity markets and their derivatives and facilitate timely access to market information, including on food reserves, in order to help limit extreme food price volatility.”
 → Real time crop monitoring

- **Directly measures or supports indicators** for 13 SDGs

e.g. Indicator 3.9.1 “Mortality rate attributed to household and ambient air pollution.”
 → Particulate matter measurement for every place on earth

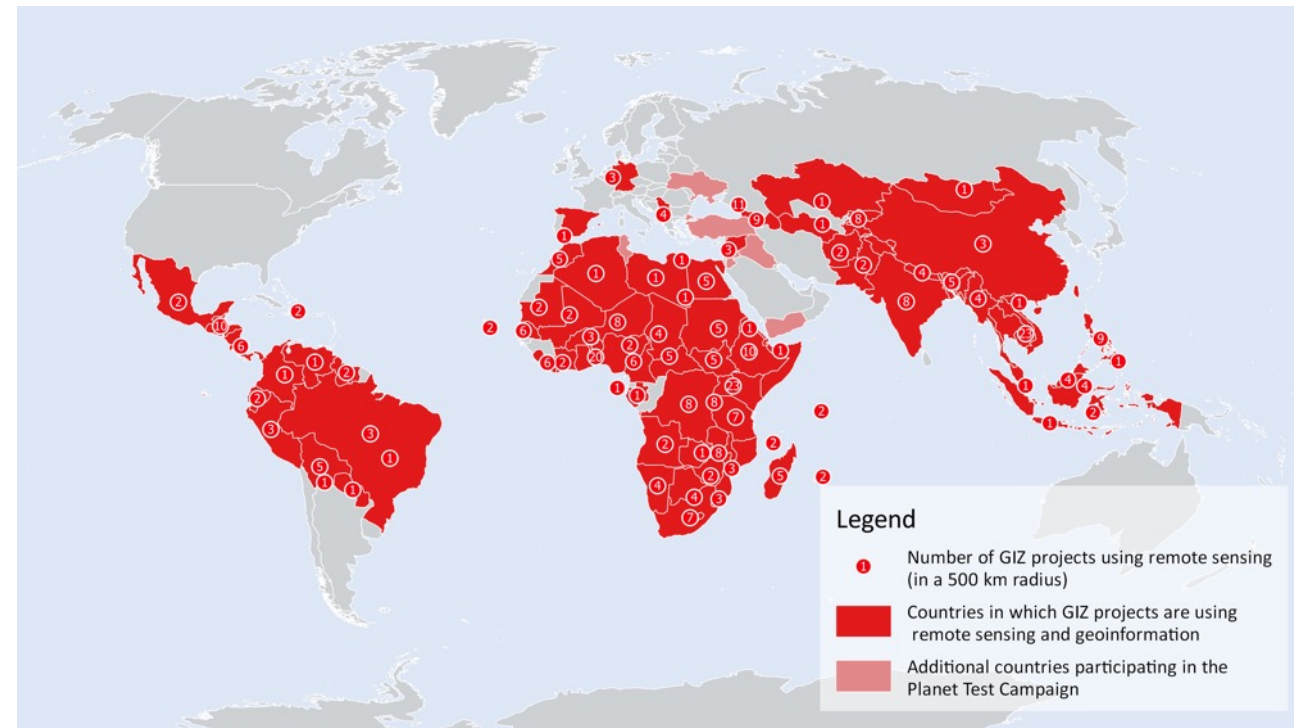
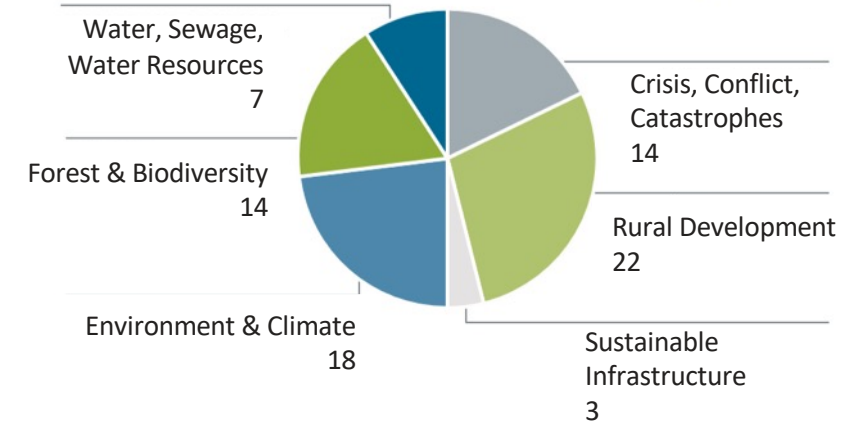
- Only large-scale data solution for many indicators (e.g. forest related data)
- Alternative for measuring progress in data-poor regions

	Population distribution	Cities and infrastructure mapping	Elevation and topography	Land cover and use mapping	Oceanographic observations	Hydrological and water quality observations	Atmospheric and air quality monitoring	Biodiversity and ecosystem observations	Agricultural monitoring	Hazards, disasters and environmental impact monitoring
1 No poverty										
2 Zero hunger										
3 Good health and well-being										
4 Quality education										
5 Gender equality										
6 Clean water and sanitation										
7 Affordable and clean energy										
8 Decent work and economic growth										
9 Industry, innovation and infrastructure										
10 Reduced inequalities										
11 Sustainable cities and communities										
12 Responsible consumption and production										
13 Climate action										
14 Life below water										
15 Life on land										
16 Peace, justice and strong institutions										
17 Partnerships for the goals										

1. Relevance of Remote Sensing within GIZ

- Around 80 projects at 130 sites use EO and Geographical Information.
- Most important sectors:
 - Rural development
 - Environment & Climate
 - Forest & Biodiversity
- The **expert network** aims to facilitate exchange among existing projects within GIZ and to external experts as well as guidance for newly established projects.

Share by sector



The background of the slide is an aerial photograph of a river network, showing a dense web of yellow and orange channels against a blue-green landscape. A semi-transparent, light blue map overlay is positioned in the lower half of the image, showing a similar but more abstract representation of the river network. The text is overlaid on the bottom portion of this map.

Network on Remote Sensing and Geographical Information

How to get engaged

Network on Remote Sensing and Geographical Information

- **Advice** to GIZ projects and internal units on the acquisition and processing of geodata, for example
 - Advising partners on the use of EO technologies for various purposes
 - Finding partners to implement EO technologies
 - Organisation of events and exchange formats
 - Guidelines for purchasing of satellite imagery (in cooperation with procurement)
- Provision / organisation of **trainings**
- Observation of important **technological trends** of Remote Sensing
- Communication and **networking** with partners from the private sector, research institutions, etc.
- **Past / Ongoing activities:** « Forum on Remote Sensing and Geographical Information » (since 2017), *Summer School « Remote Sensing for International Development »* (2019), Annual Meeting of the Expert Network (2019), various trainings / webinars (2020)

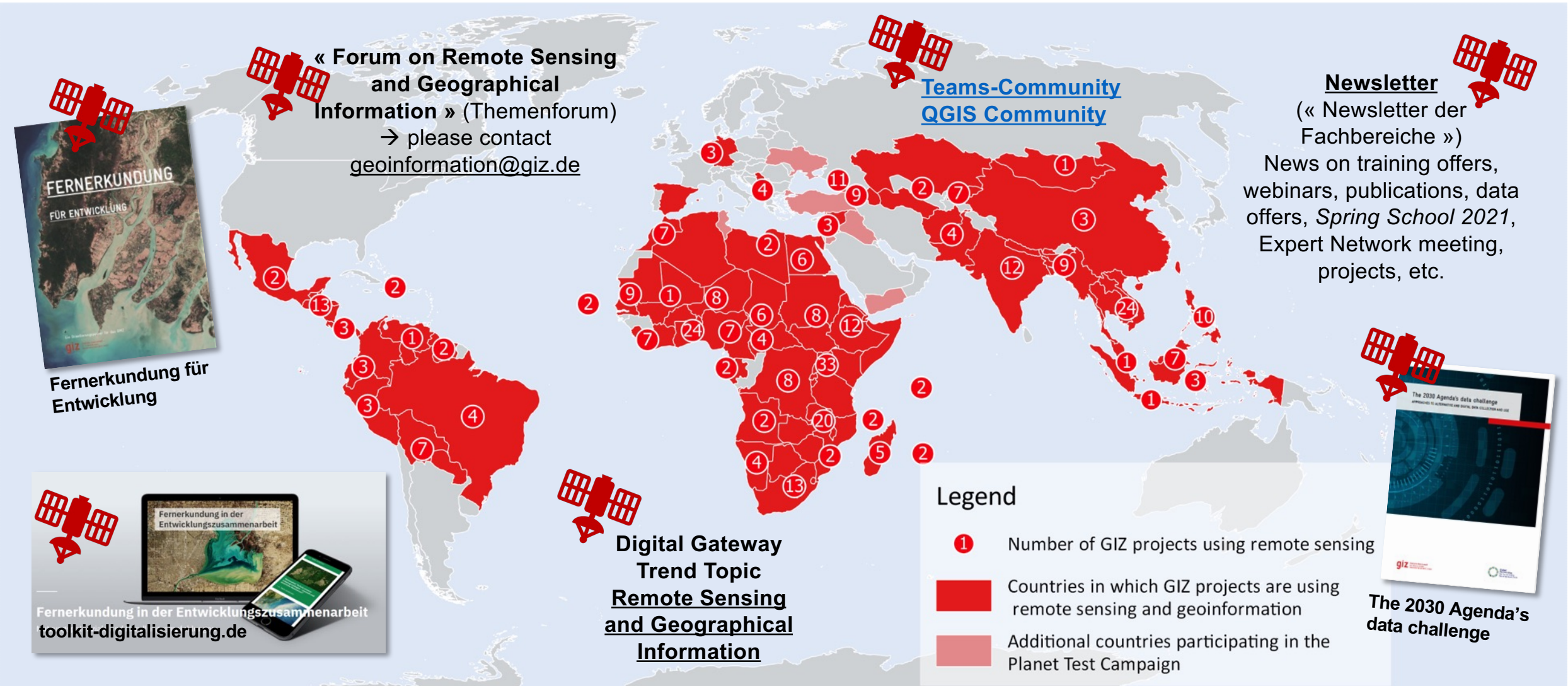


Activities 2022

- **Annual Meeting of the Expert Network Remote Sensing and Geographical Information 2022**
 - Initiative by GIZ Sectoral Department and GloBe
 - Cross sectoral network of experts, facilitates exchange between geospatial technology consultancies / companies as well as research institutions and GIZ employees
 - First meeting in September 2019, about 30 representatives of service providers and cooperation partners, about 50 GIZ employees were present
- **School Remote Sensing for International Development**
 - Training in cooperation between University Würzburg - Department of Remote Sensing, DLR and GIZ (lectures, hands-on exercises, keynotes by practitioners)
 - First summer school in 2019, 22 participants from Ethiopia, DR Congo, Namibia, Philippines and Germany
- **Forum on Remote Sensing and Geographical Information (continuous)**
 - Internal Meeting of GIZ staff interested in Remote Sensing / GIS
 - Regular presentations from different guests (external researchers, companies, GIZ projects etc.) and varying topics, for example, monitoring of forest loss or REDD+, risk natural disaster adaption planning, agriculture, applications for high resolution imagery... you can also suggest topics yourself!
 - Invitations via IDA-community or contact Geographical Information@giz.de
- **Newsletter**



Exchange formats, events and useful information



Contact



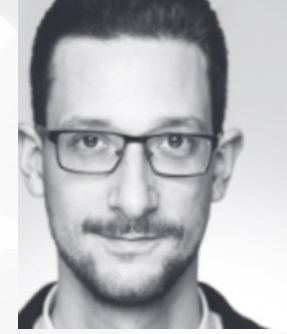
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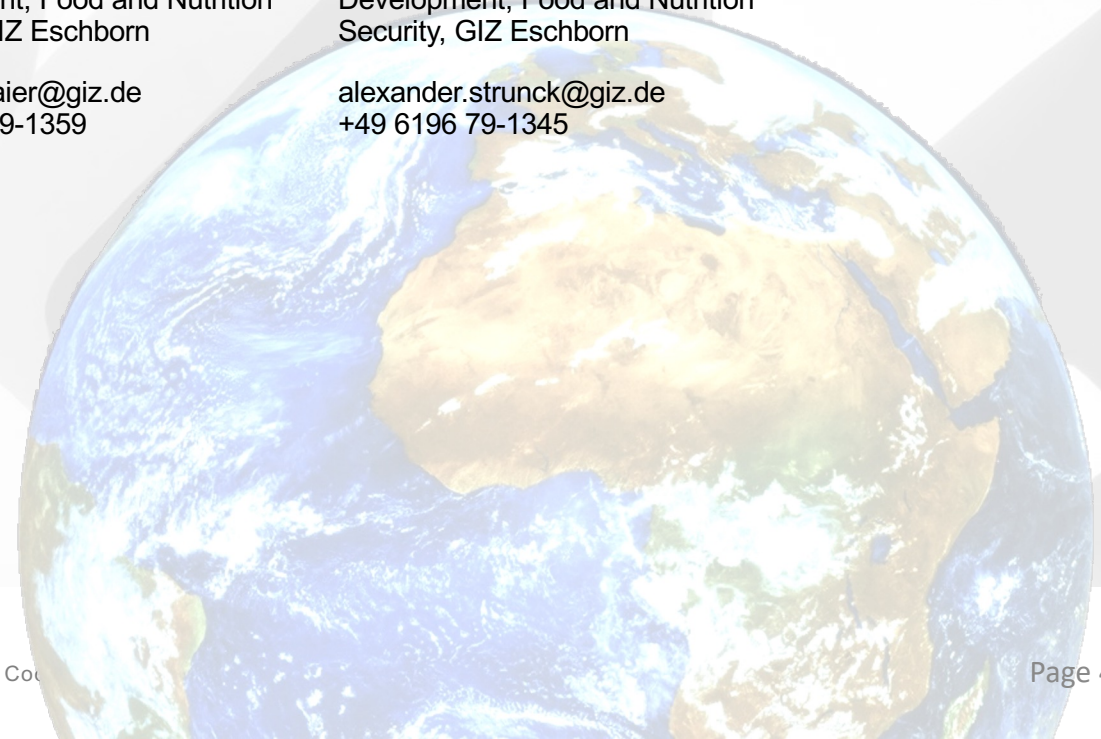
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 **Geographical**
Information@giz.de

 Photos: all ESA, GIZ (unless otherwise stated)
www.giz.de



https://twitter.com/giz_gmbh



The background of the slide is an aerial photograph of a river network, likely in a tropical region, showing a dense web of yellow and orange channels against a green and blue landscape. A semi-transparent, light blue map overlay is positioned in the lower-left quadrant, showing a similar river network pattern. The text is overlaid on the bottom left of this map area.

The GIZ.digital Gateway

Remote Sensing related sites

Digital Gateway

[Landing Page](#)

[Aspects to consider when buying satellite data \(sharepoint.com\)](#)

[Free access to high-resolution satellite data provided by GFOI and Norway \(sharepoint.com\)](#)

[Earth Observation Data – An introduction \(sharepoint.com\)](#)

[Data Service Center \(sharepoint.com\)](#)

The background of the slide is an aerial photograph of a river network, likely in a tropical region, showing a dense web of yellow and orange channels against a green and blue landscape. A semi-transparent, light blue map overlay is positioned in the lower-left quadrant, showing a similar river network pattern. The text is overlaid on the bottom left of this map area.

The Data Service Center

A new service offer by FMB

Why does GIZ need a data service center?

•Access

- Provides centralized access to infrastructure, data sources and expertise.

•Analysis

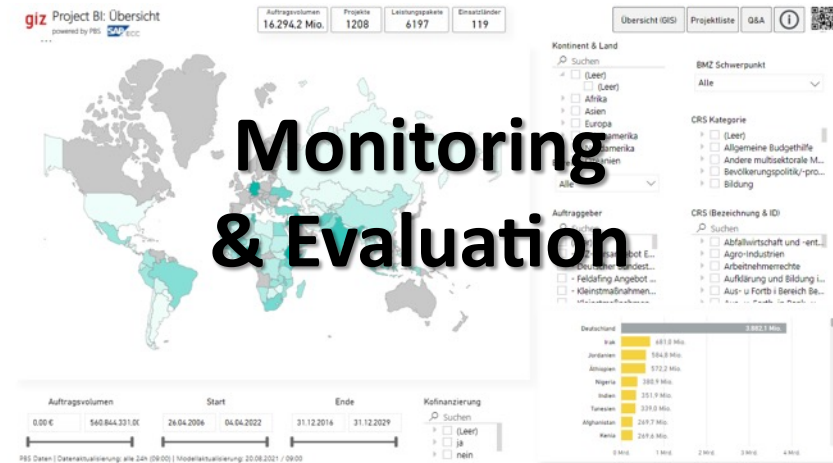
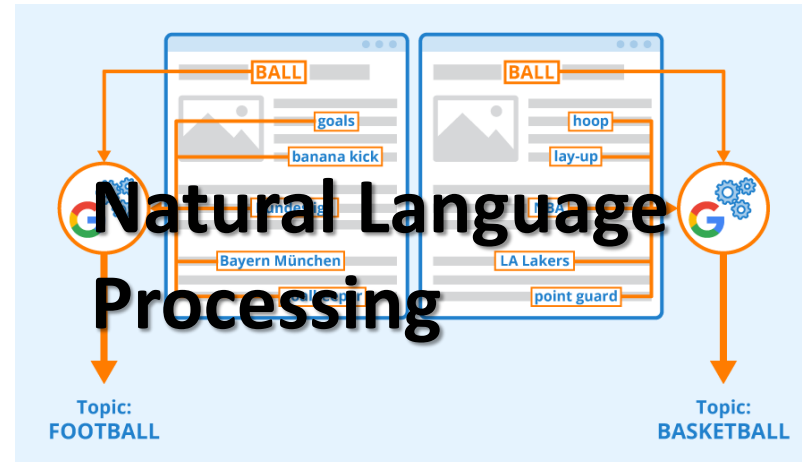
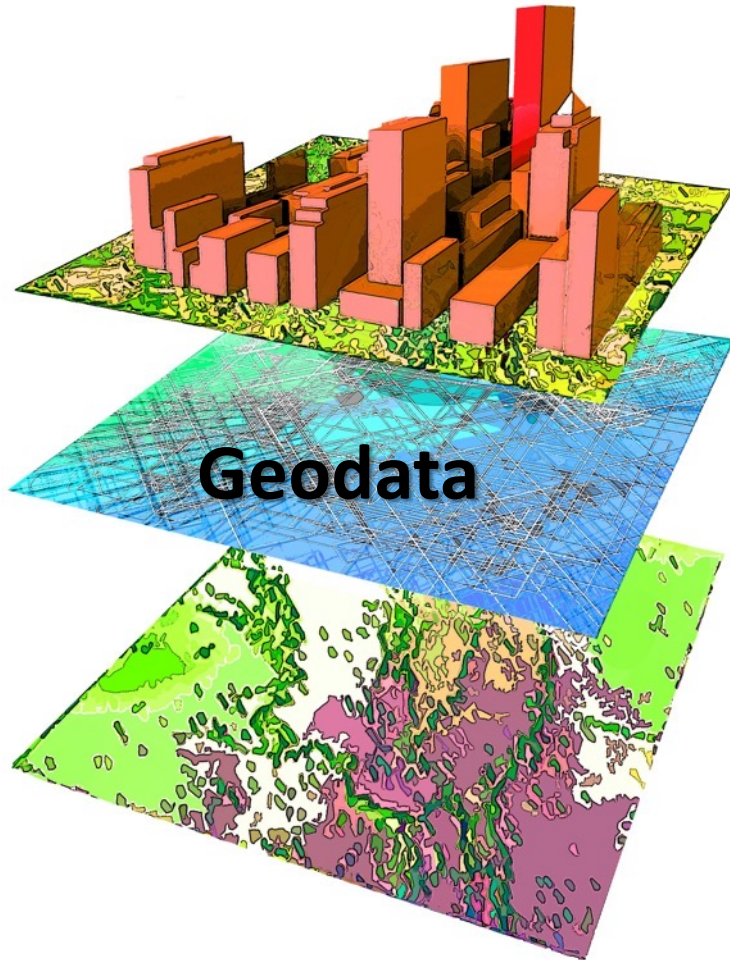
- Advises on the integration of data into the project cycle and provides analysis.

•Effect

- Provides support for data collection to demonstrate impact.

What topics is the Data Service Center working on?

The Data Service Center is currently active in three fields:



Geodata

- **Infrastructure**
 - Central storage and exchange
 - Inclusion in the course of the project
- **Processing**
 - Central data provision, analysis and preparation
 - Provision of open and commercial data sets
- **QGIS**
 - [Community of active GIZ-QGIS users](#)
 - Customized training for projects
 - Help with setting up geoinformation systems

UNDER CONSTRUCTION



Team (under construction)

Internal sector teams



Land
Governance



Agriculture



Forestry



Many more

Core team



Monitoring &
Evaluation



Geoinformation
(Geodata Management)



Data Science,
Gender Data



Data Engineering



Geoinformation
(Remote sensing)



Data Science,
Speech Data

Internal IT



IT Consulting



Data Collection



Data Architect

An aerial satellite image of a river network, showing a dense web of yellow and orange channels against a blue and green background. A semi-transparent, light blue map overlay is positioned in the lower-left quadrant, showing a vector-style map of the same river network. The text 'OpenStreetMap' is written in a large, bold, black font, and 'The biggest open data source for vector map data' is written in a smaller, black font below it.

OpenStreetMap

The biggest open data source for vector map data

OpenStreetMap

[\(132\) Two Minute Tutorials: What is OpenStreetMap? - YouTube](#)

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Collective Intelligence

- Goal: collect examples of existing tools and platforms for Digital planning, mapping and participation which you already know or find on the web



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Procuring digital tools

IT Project management in the context of GIZ

Different types of procurement

“Off the shelf”
buy from market

Customize

Building Blocks for your
needs – remix of
readymade product from
market and tailormade
development

Tailor-made/Develop

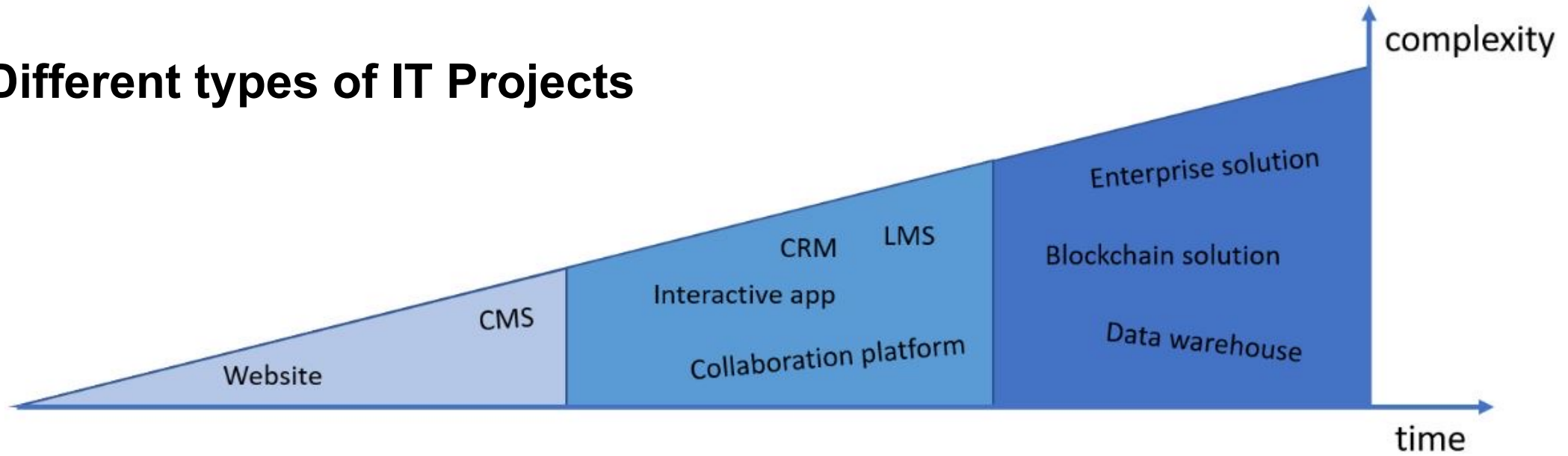
build your own IT solution

For sustainability: Always
calculate with the **Total
Cost of Ownership!**

Different forms of procurement

- Context: What can be implemented?
Network-Connectivity-Access? [DataReportal – Global Digital Insights](#); [IKT Länderskizzen](#)
- [Principles for Digital Development](#)
- Platform as a service
- Software as a service
- Hardware
- Software
- IT infrastructure
- Maintenance
- Security
- Open Source (≠ for free)
- Proprietary

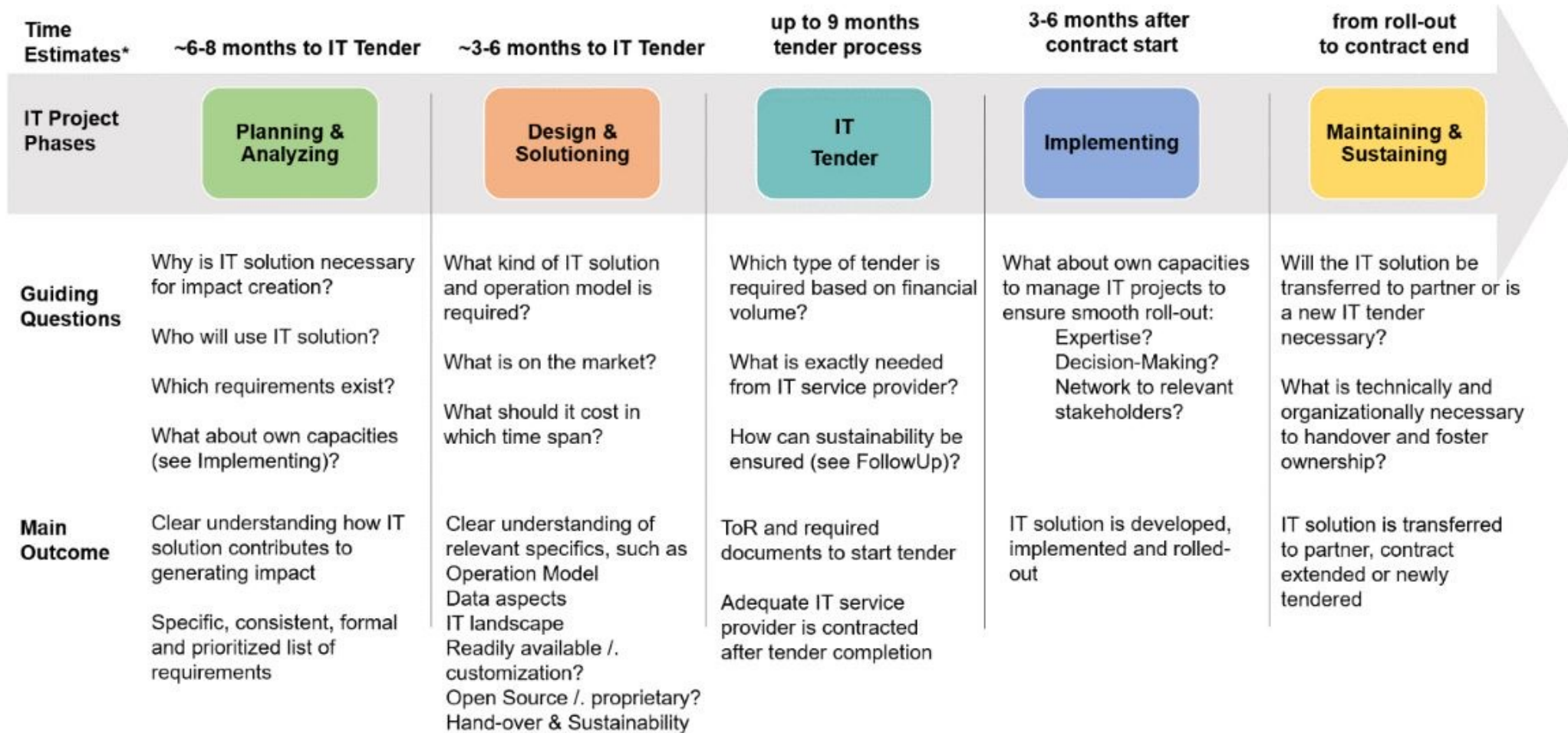
Different types of IT Projects



The image below shows the different project phases for IT projects. Please note that while the guiding questions belong to a certain category, **the questions and outcomes need to be sorted before starting the IT tender.**



The time it takes: 18 - 29 months....



* Please note that time spans heavily vary based on complexity and financial volume of the IT solution. Therefore the time estimates only serve as generic orientation, so that we recommend to approach the setoral department at a very early stage to allow a more in depth analysis.

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[Toolkit for IT Project Management in the Context of German Development Cooperation](#)

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