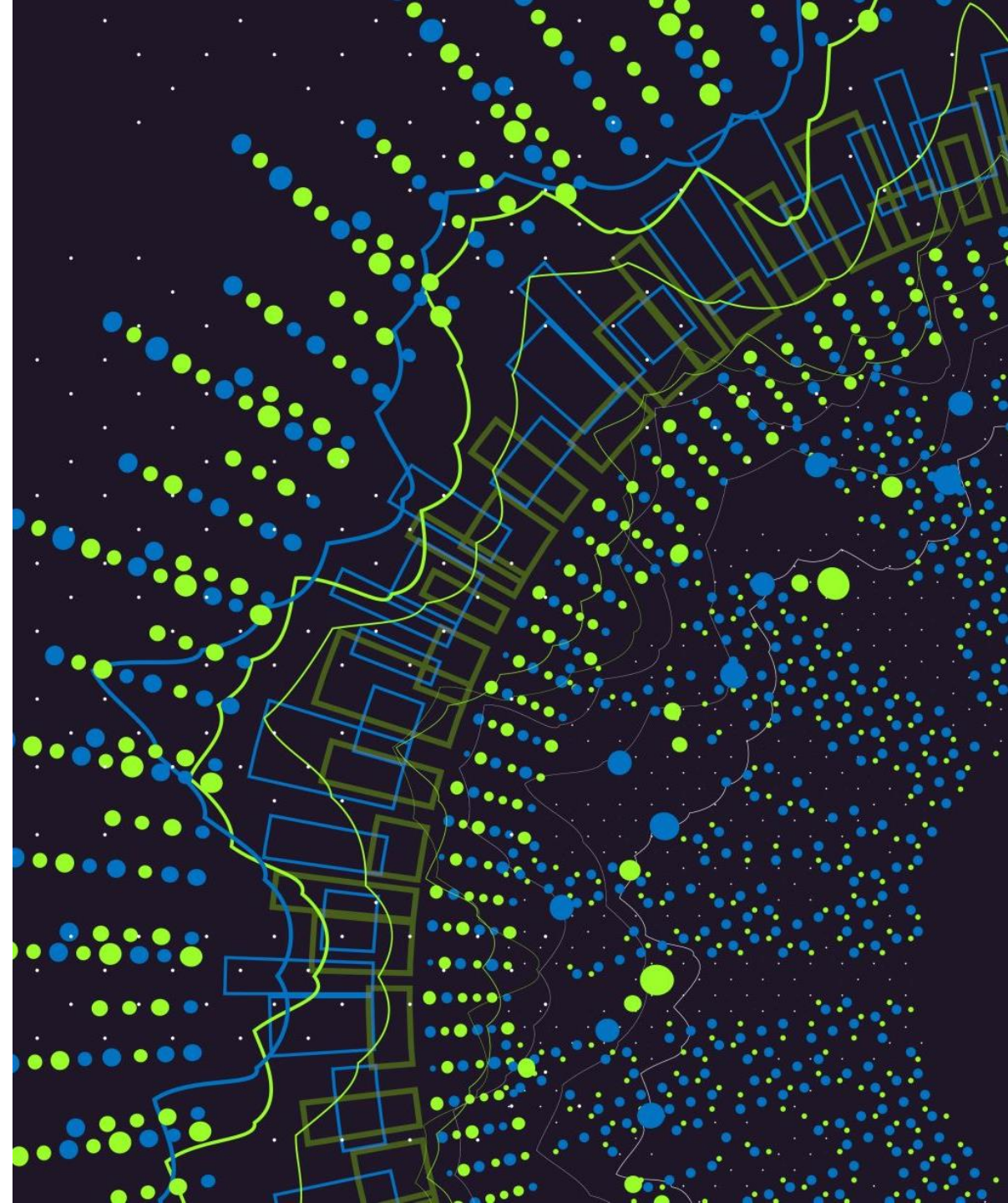
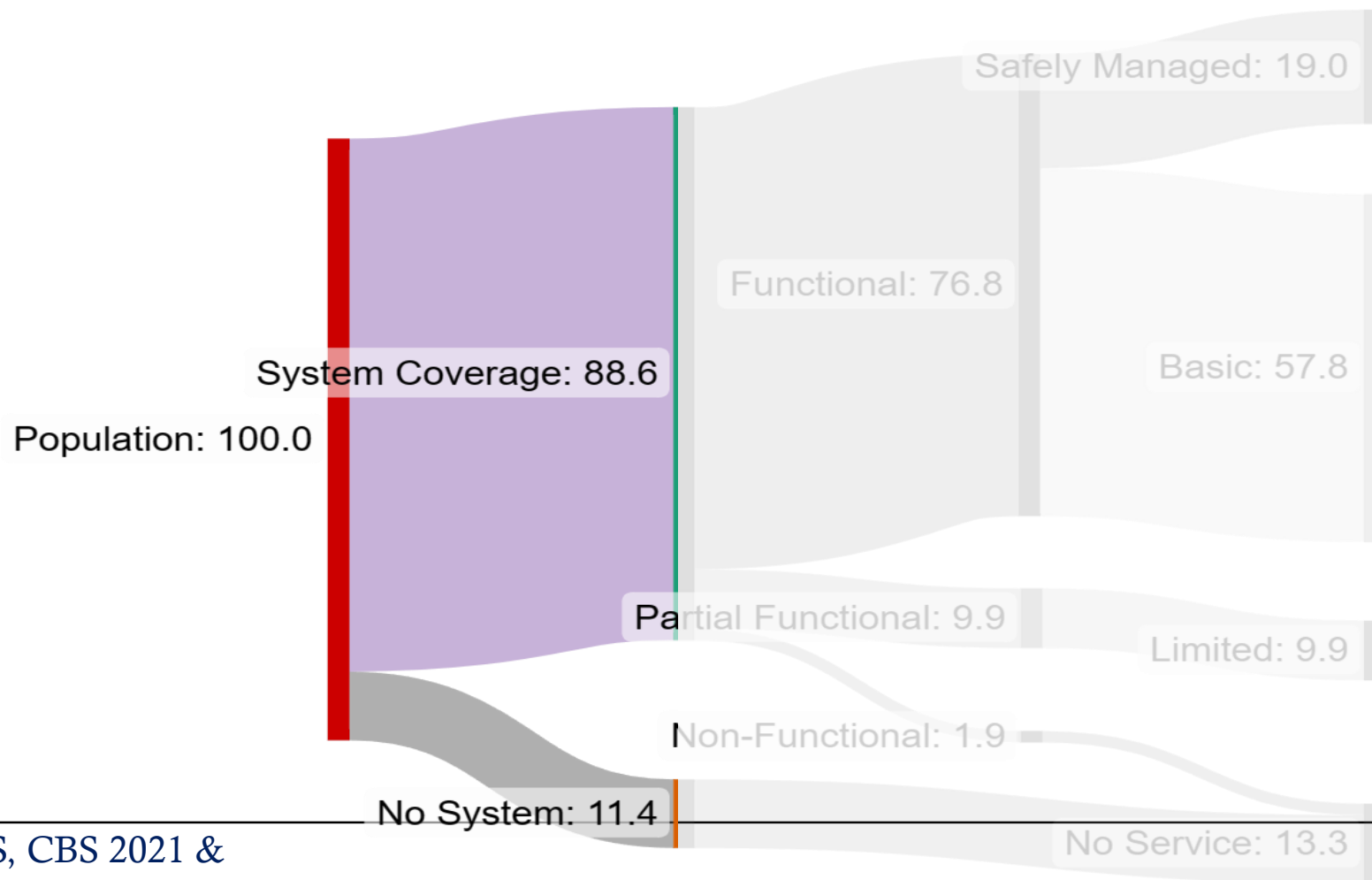

OVERVIEW OF WASH SECTOR AND ROLE OF NEA IN KNOWLEDGE BROKERING

Er. Rajit Ojha, PhD

Senior Divisional Engineer, DWSSM

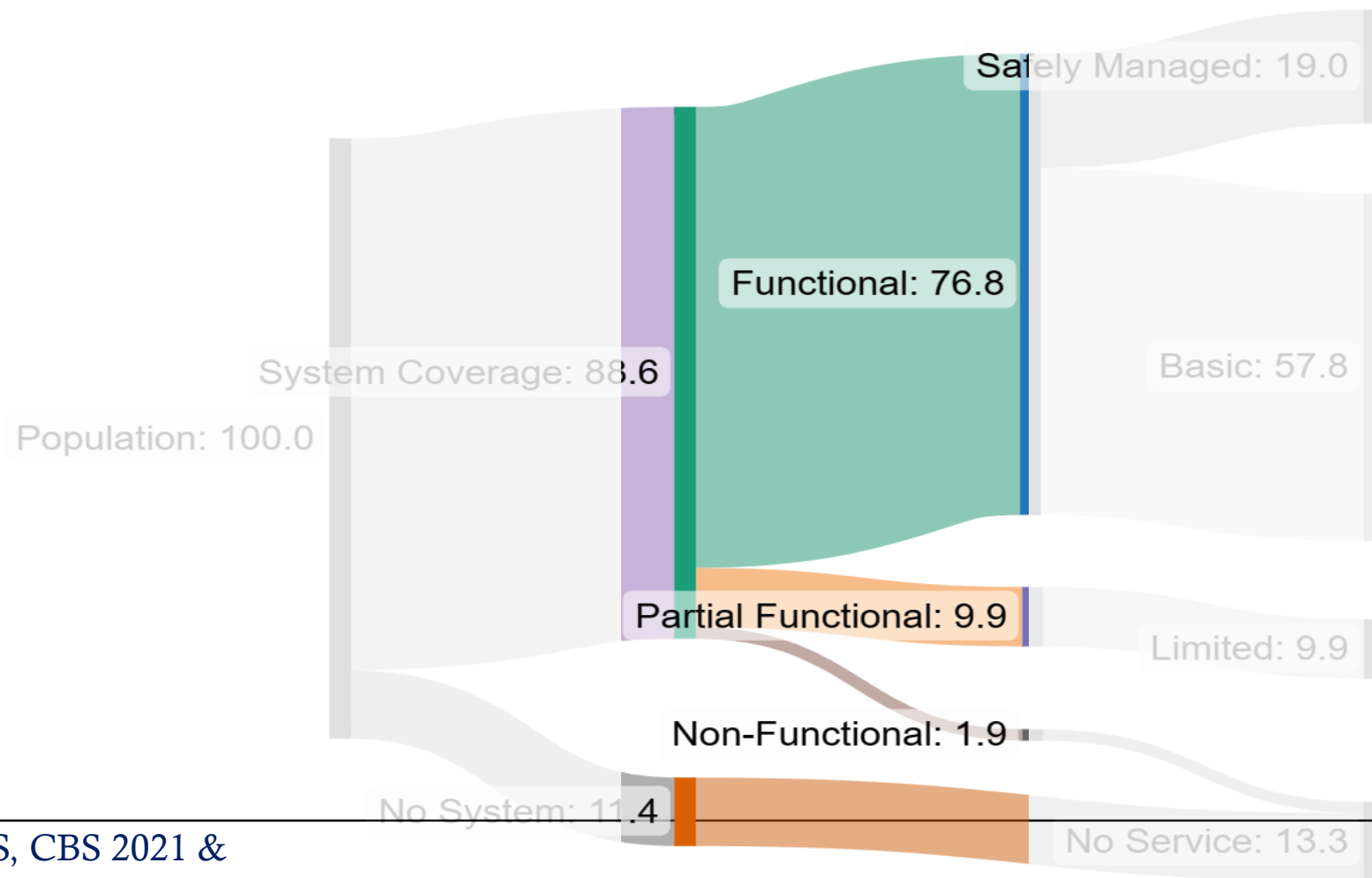


Water Supply Services



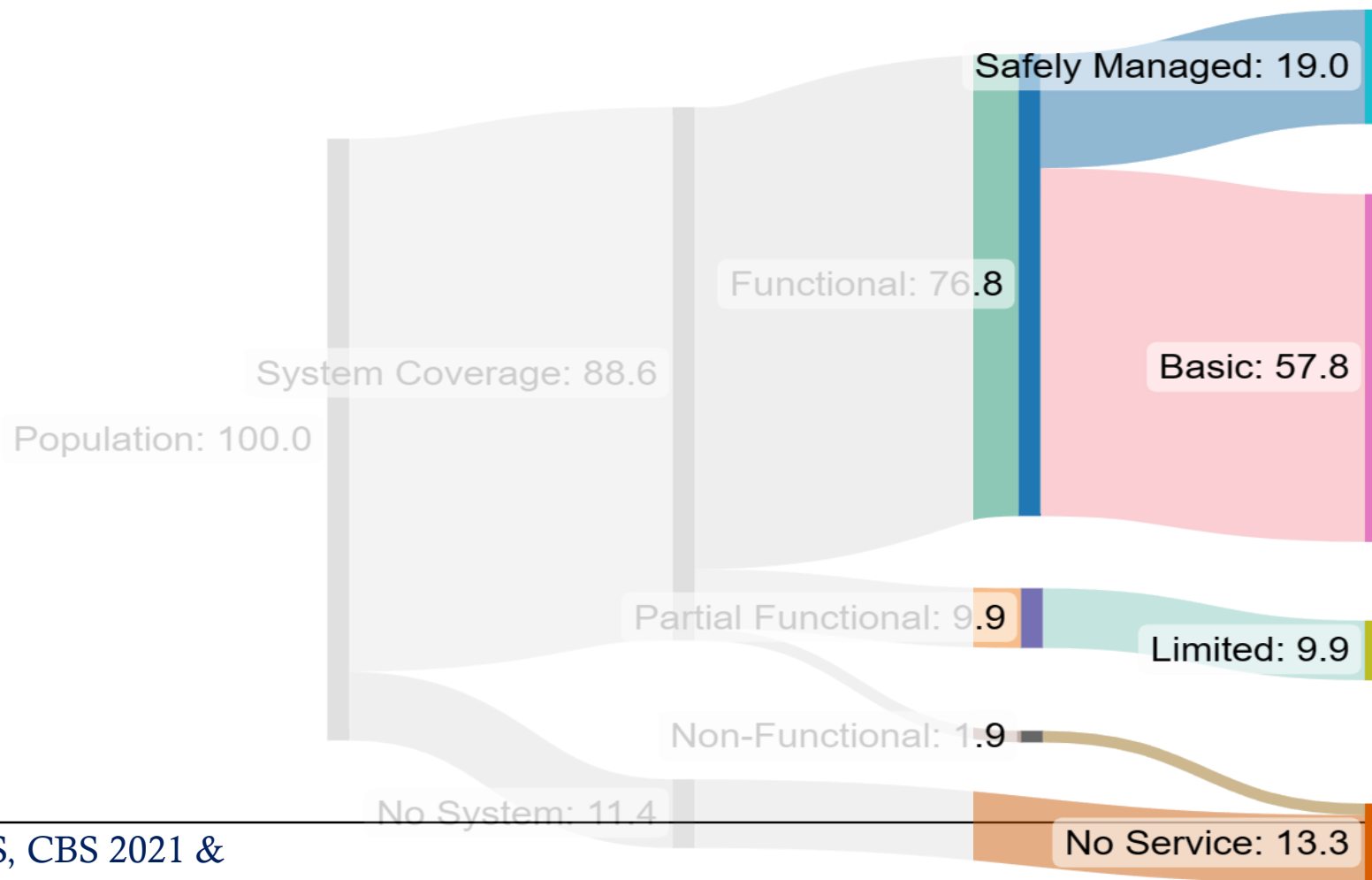
Source: NWASH-MIS, CBS 2021 & MICS 2019; Draft SDP (2023-2043)

Water Supply Services



Source: NWASH-MIS, CBS 2021 & MICS 2019; Draft SDP (2023-2043)

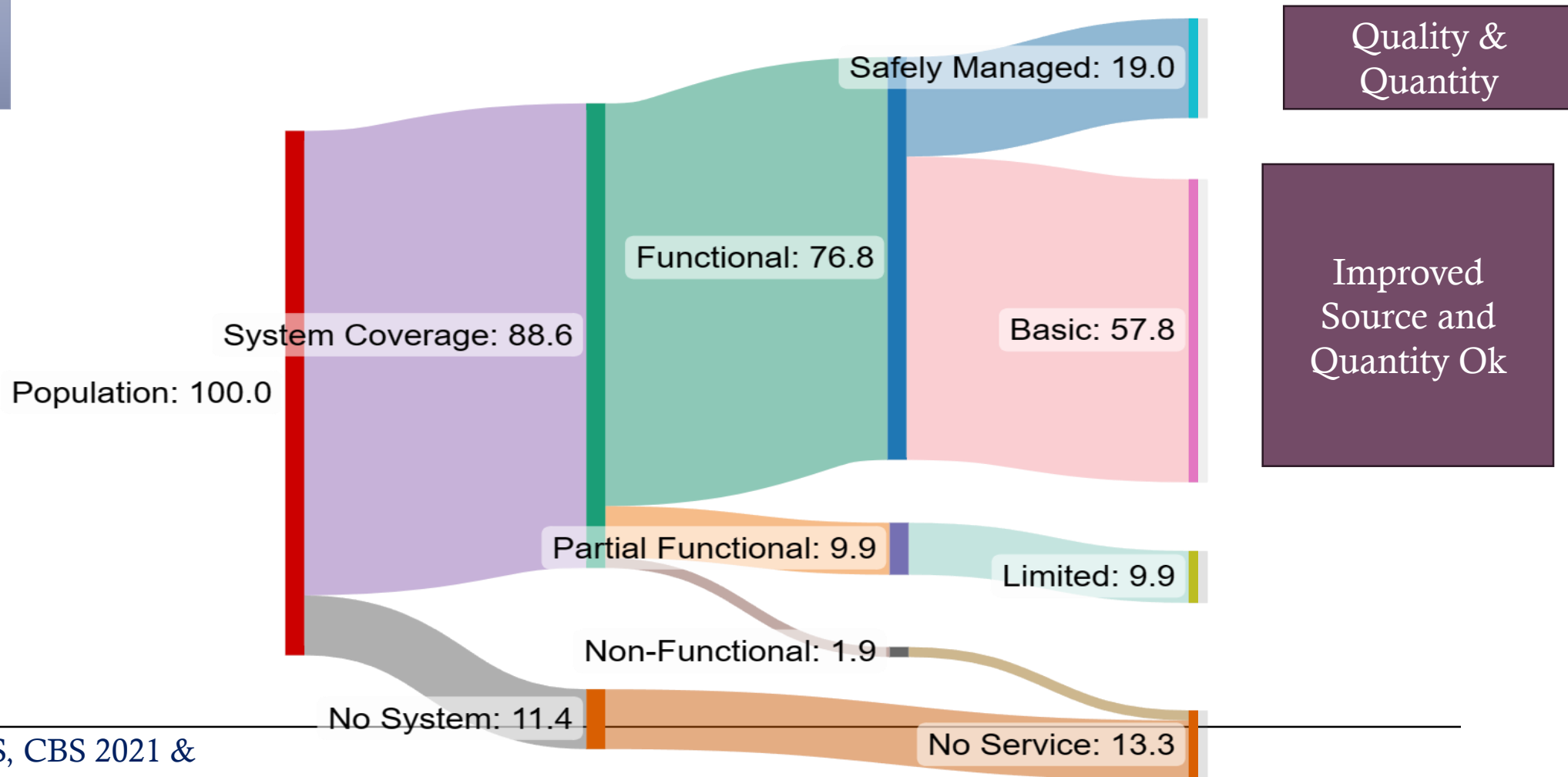
Water Supply Services



Source: NWASH-MIS, CBS 2021 & MICS 2019; Draft SDP (2023-2043)

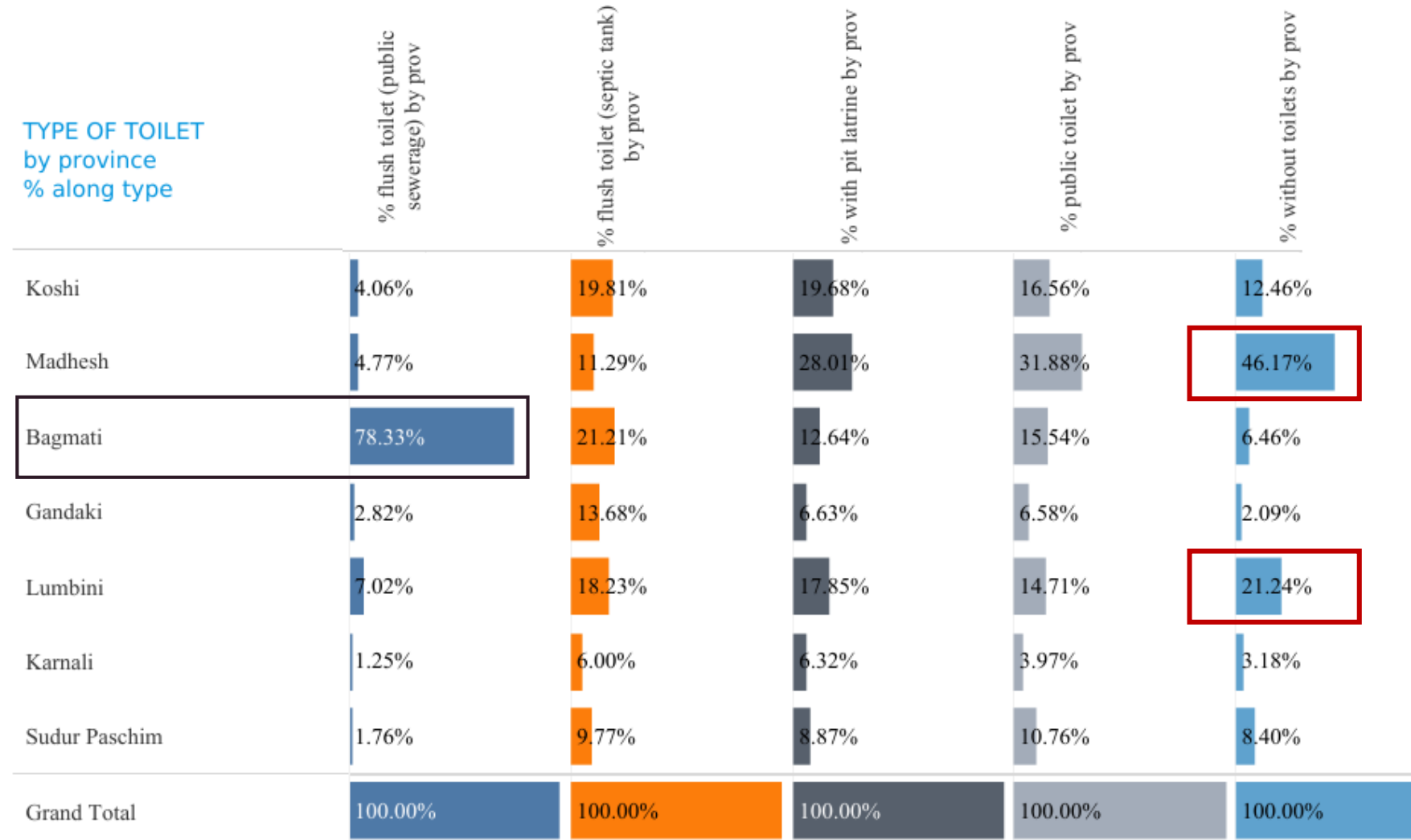
Water Supply Services

No quantitative data created so far!!



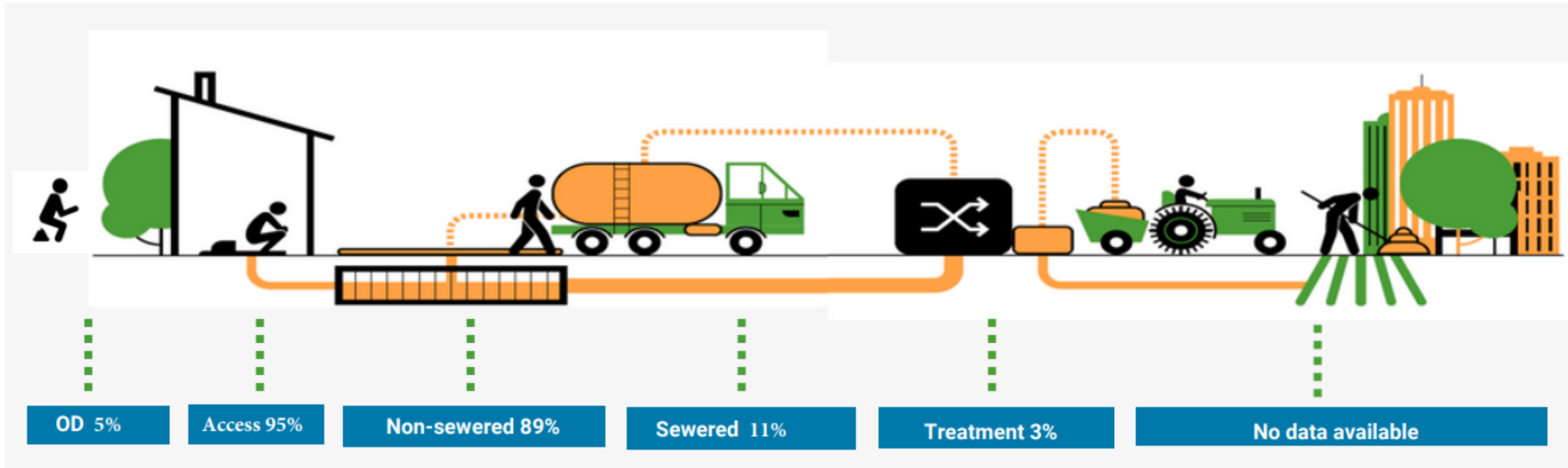
Source: NWAASH-MIS, CBS 2021 & MICS 2019; Draft SDP (2023-2043)

Sanitation Services and Hygiene

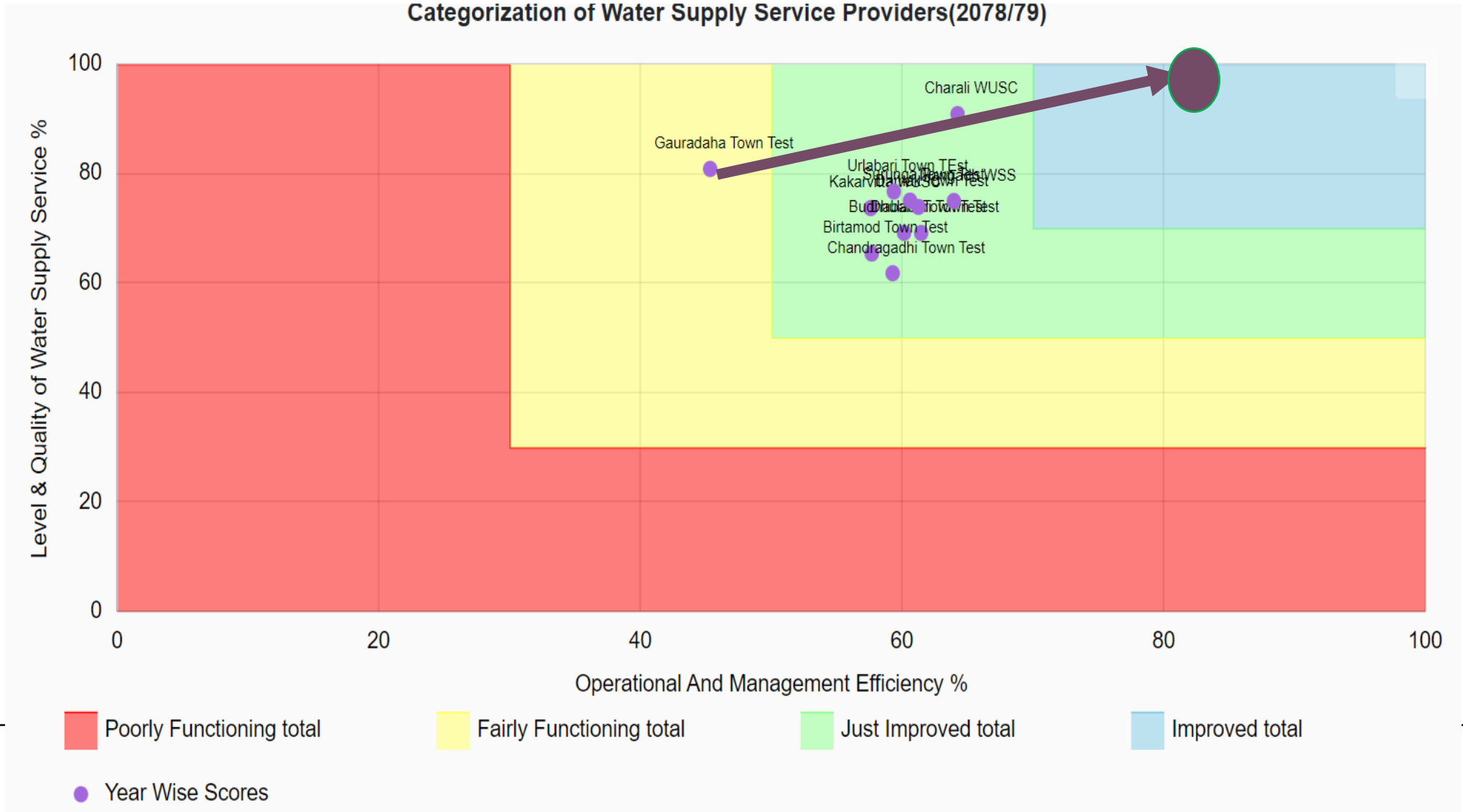


Source: CBS 2021
Analysis Support: Unicef

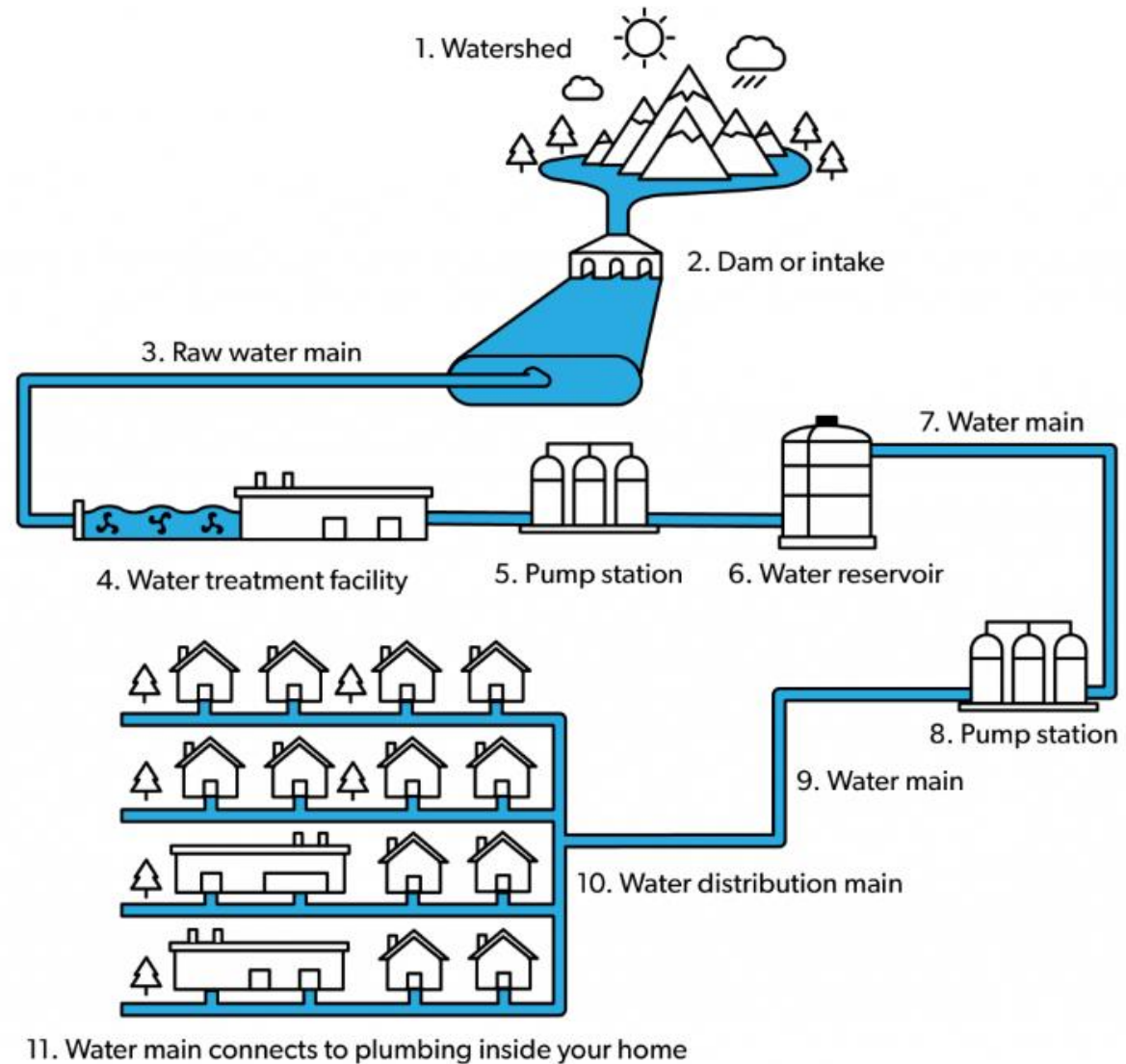
Sanitation Value Chain



IDENTIFY WHERE YOU ARE.. PLAN WHERE YOU WANT TO BE

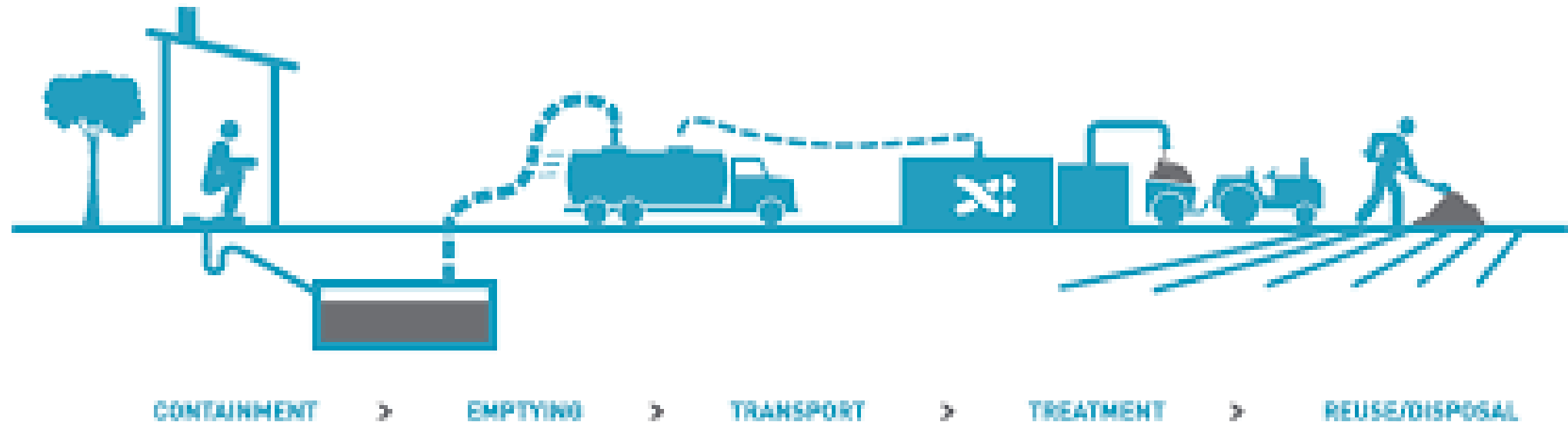


TYPICAL COMPONENTS -WSS



TYPICAL COMPONENTS –SANITATION VALUE CHAIN

Sanitation Value Chain



Different technological choices / different opportunities / different challenges

WASH System



Policy & legislation: sector policy & strategy, legal framework, norms & standards, by-laws



Planning: planning & budgeting, capacity & frameworks for planning



Institutions: coordination, roles, responsibilities, capacity, sector mechanisms



Finance: flows & responsibilities, clear frameworks including life-cycle costs & source identification



Infrastructure: development & maintenance, project cycles, asset management, roles



Regulation & accountability: accountability mechanisms, regulatory framework & capacity



Monitoring: framework & routine implementation, service levels, use of data



Water resources management: allocation & management of resource abstraction, water quality, coordinated efforts



Learning & adaptation: capacity & frameworks to capture and feedback lessons learned, update & adapt various building blocks

FIGURE 6. NINE ESSENTIAL BUILDING BLOCKS OF THE WASH SYSTEM, AS DEFINED BY IRC

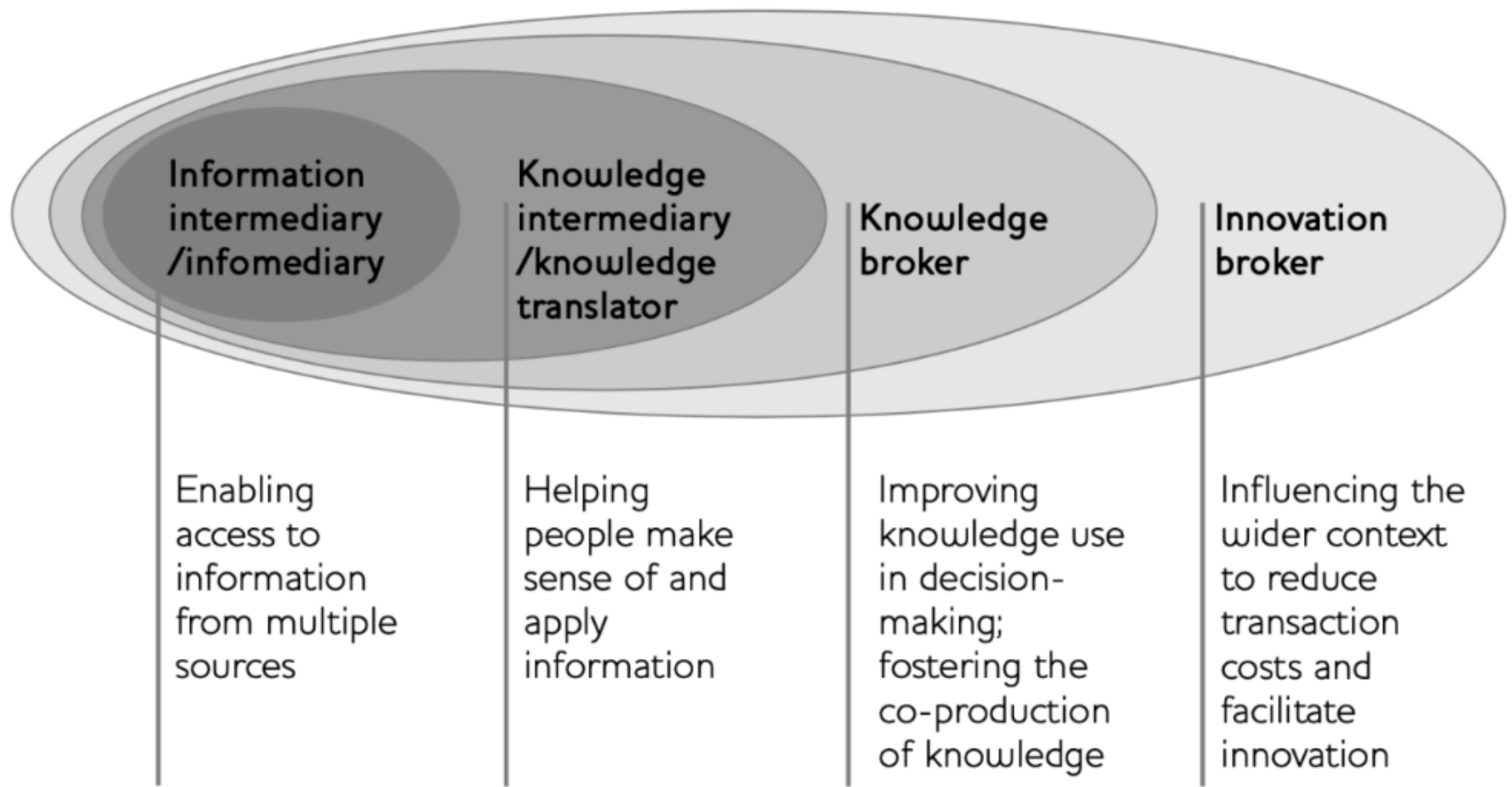
Source: IRC WASH



WHAT IS
KNOWLEDG
E
BROKERIN
G?

MY DREADFUL STORY INSIDE A PLANE THAT MADE ME REALIZE ...

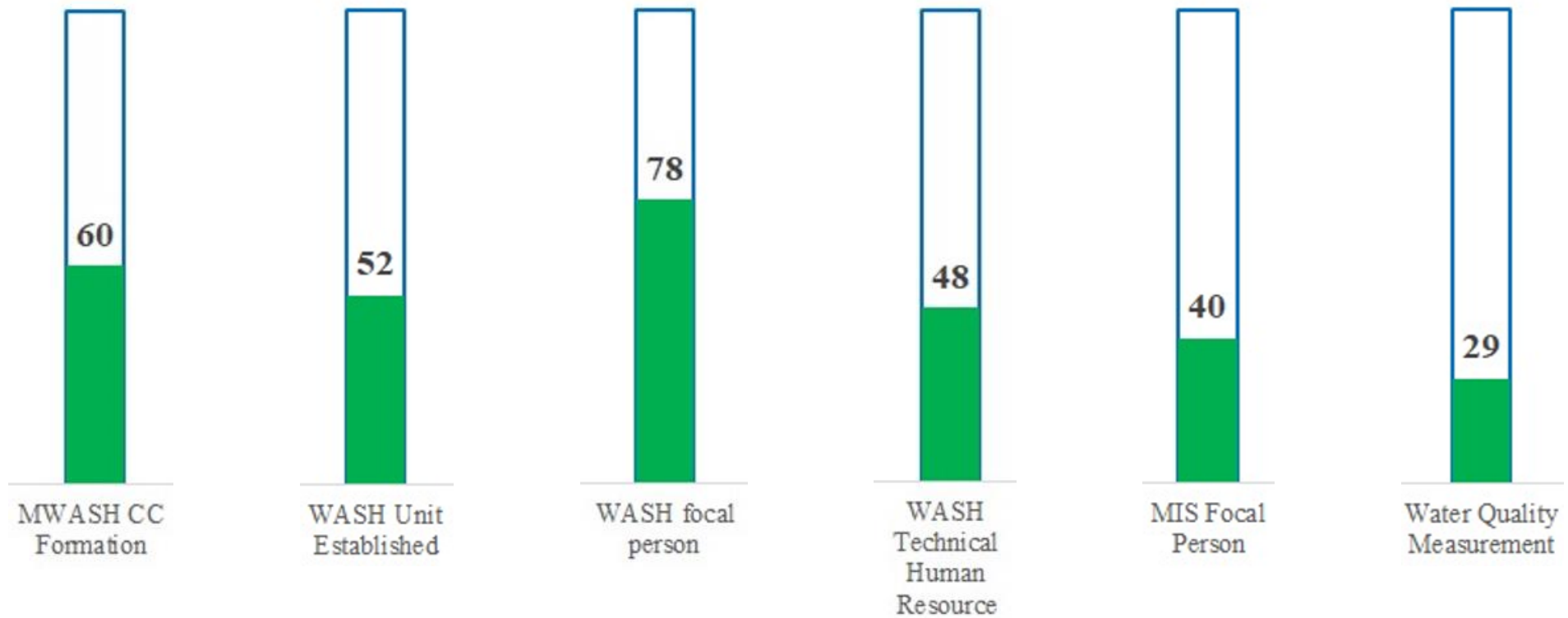
a typical crash, for example, the weather is probably terrible, necessarily, but bad enough that the pilot is a little bit more stressed than usual. In an average number of crashes, the plane is behind schedule and the pilots are hurrying. In 52 percent of crashes, the pilot who was in the time of the accident has been awake for 16 hours or more, meaning that he is tired and not thinking clearly. And 44 percent of the time, the two pilots have never flown together before, so they're not comfortable with each other. Then the errors start—and it's not just one or two. The typical accident involves seven consistent errors. One of the pilots does something wrong, and one of them



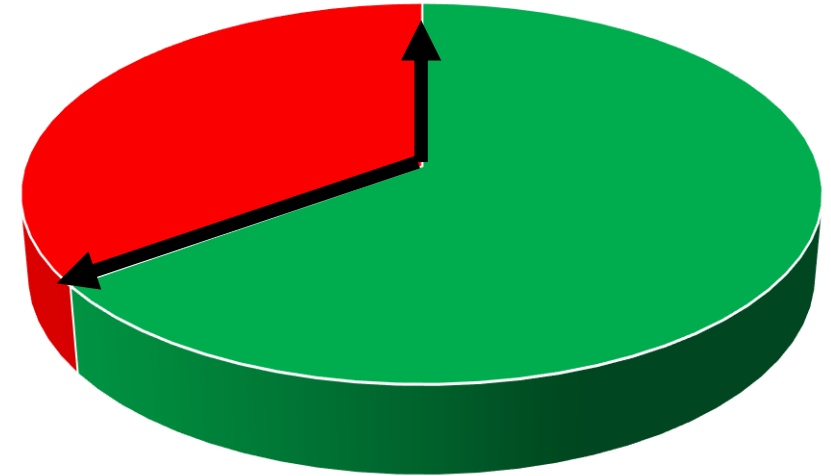
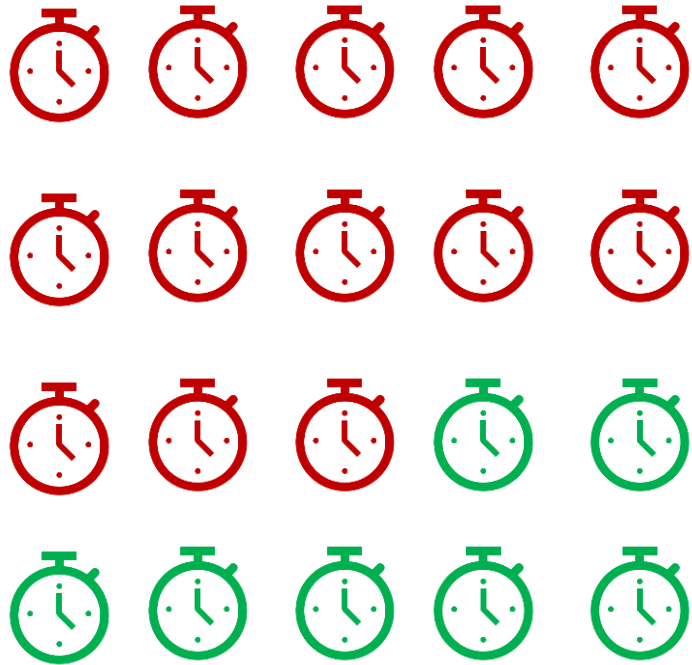
A spectrum of intermediary and brokering functions (from Harvey et al. 2012)

<https://research.csiro.au/integration/knowledge-brokering/>

WASH Governance at LG



WASH GOVERNANCE (OUT OF 130 LGs)



13 out of **20** service providers are not providing 24 hour service ,mentioned in the project documents

Average water supply per day **13** hours

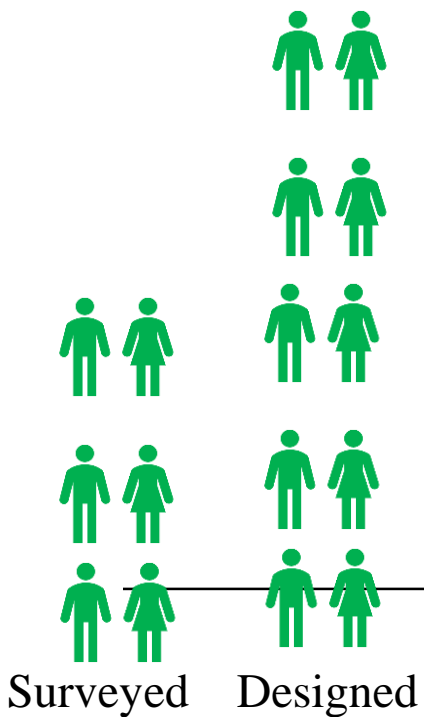


Only **1** out of **3** service providers have more than 90% tariff collection efficiency



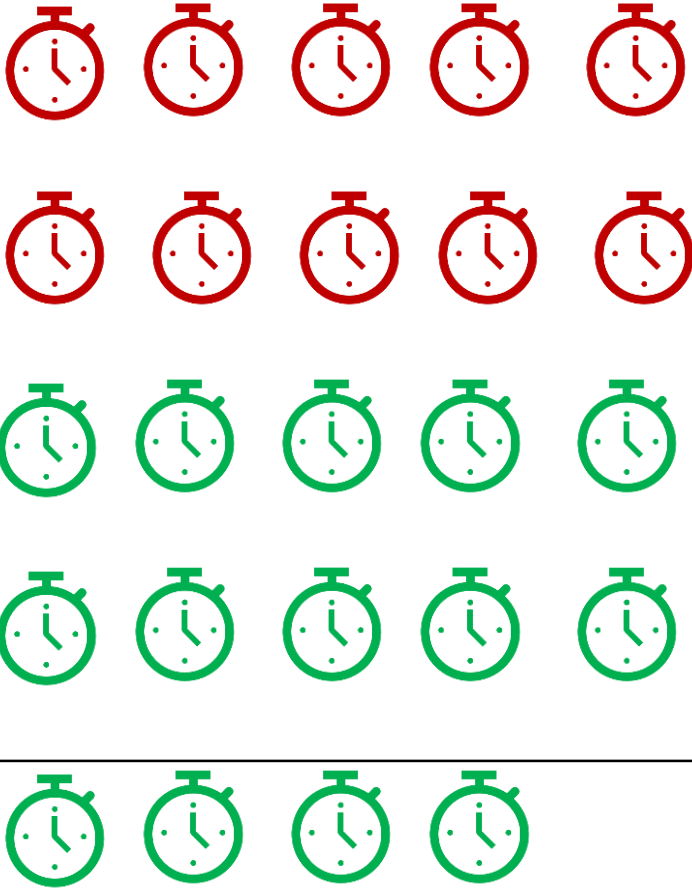
14 out of **20** service providers are not following the tariff discipline

Only **3** out of **5** service providers are able to pay their debts regularly



LWSSP is already handling **more than 60%** of the designed population. Design period was over in 2020. There was no business plan and no proper expansion plan resulting only **14 hour of service** compared to designed 24 hours of service

Expanded without following the hydraulic modeling and technical standards

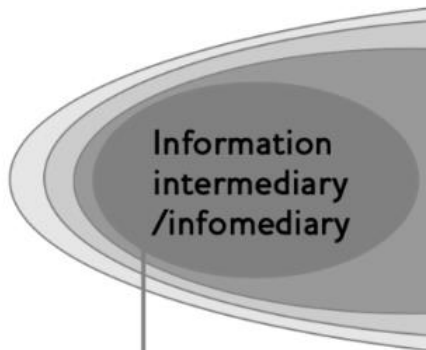


ON THE OTHER HAND ..THERE IS VERY LESS
THAT NEEDS TO BE BUILT AND VERY HIGH
THAT NEEDS TO COMMUNICATED

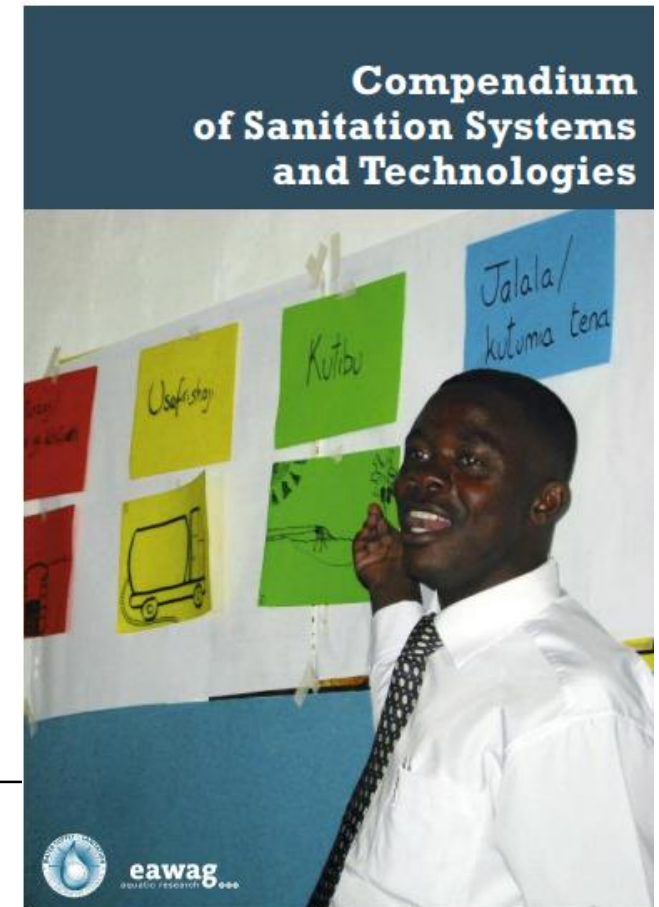
FEW EXAMPLES:

VOLUME -12

PREPARED BY DWSSM IS NOT SHARED AMONG
THE ENGINEERS WORKING IN LG'S YET



Enabling access to information from multiple sources



HOW CAN WE MAKE SENSE OUT OF IT? FEW EXAMPLES



Analysis of Demography

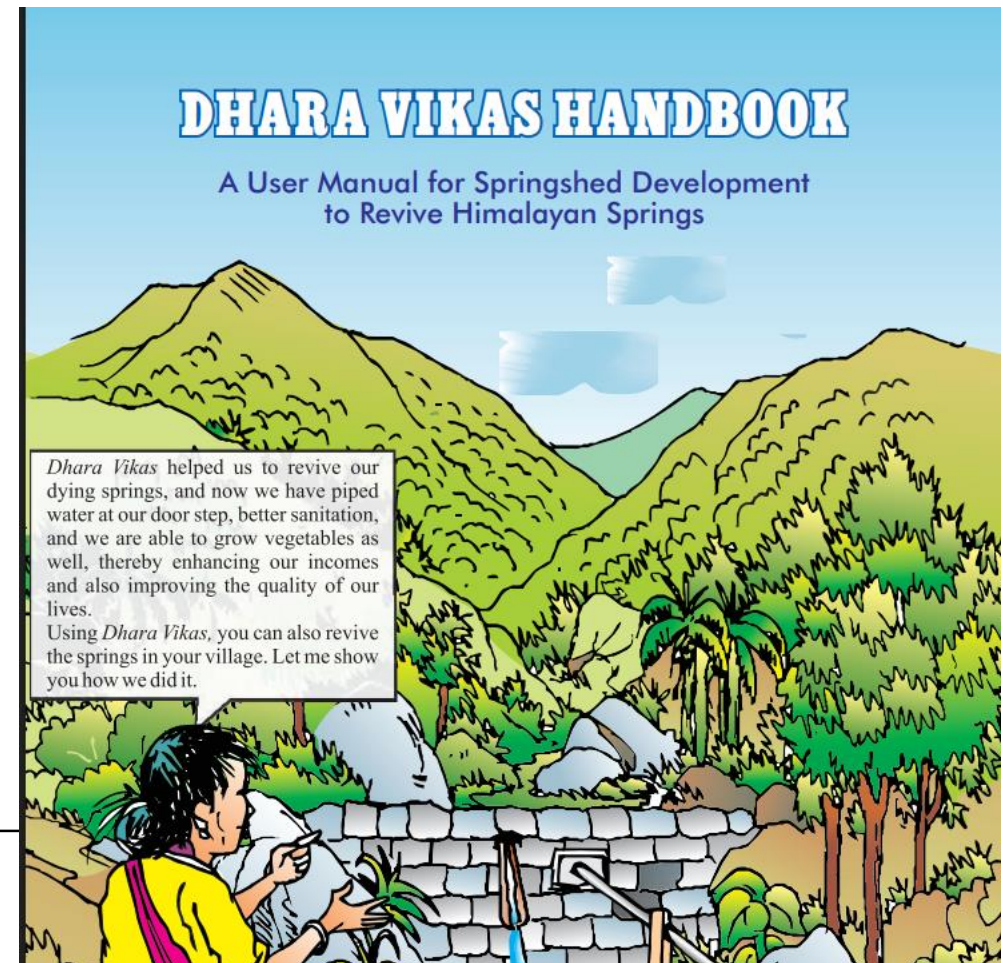
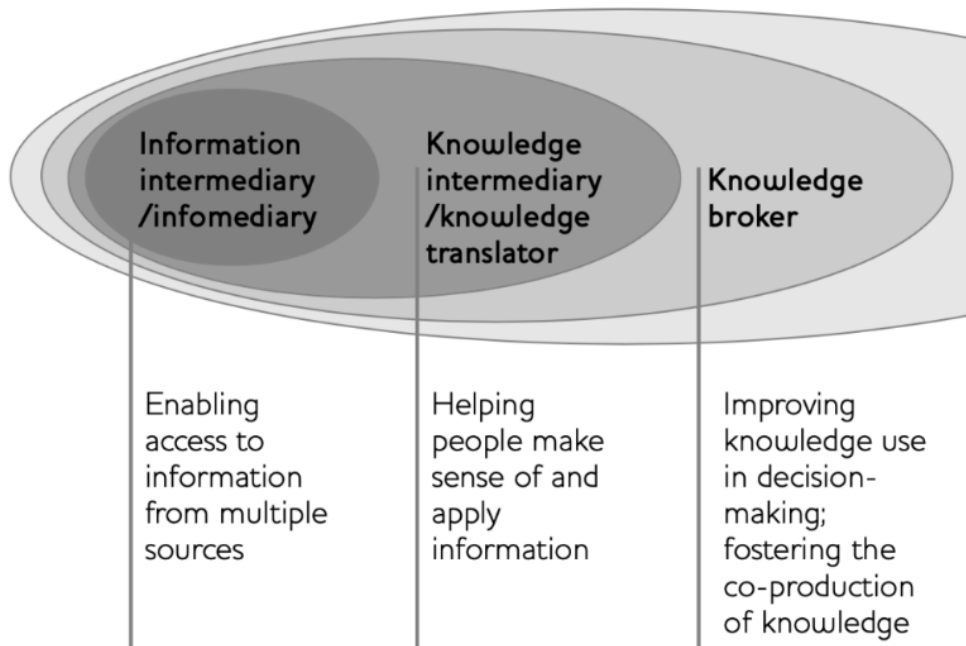


Analysis of geography



Analysis of cultural practices
etc.

WHAT COULD BE IMPROVING KNOWLEDGE USE ?



HOW CAN NEA
BE PART OF
IT?

COMMUNICATION ARRANGEMENTS



KNOWLEDGE
REPOSITORIES



SKILL GAP FORMS
(DIGITAL REQUEST
FORMS)



SERVICE BARRIER
ASSESSMENT AND ROOT
CAUSE ANALYSIS

CAPACITY BUILDING INITIATIVES

NETWORKING
(NATIONAL &
INTERNATIONAL-
SOPHEN, IWA ETC.)

JOINT PROGRAM
DESIGNS
(NWSSTC, NASC, LDTA
ETC.)