

Constitution of Nepal

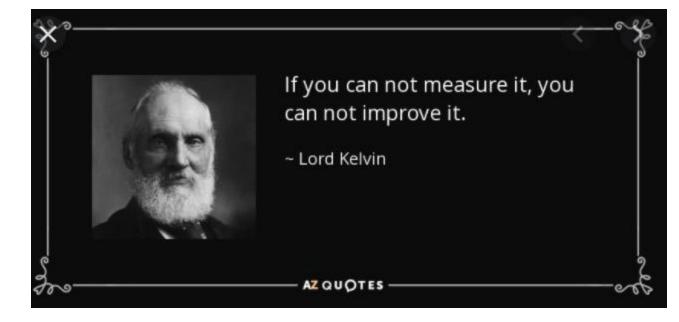
Central government:
Large scale Projects
Rules, Guidelines, policies,
international commitments
Central Data Management

Provincial government

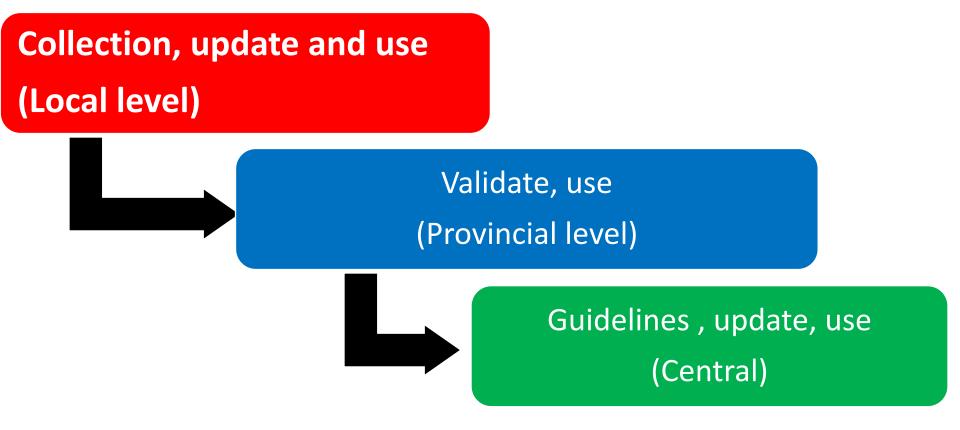
Local government

Constitution of Nepal

Central government:
Central Data
Management

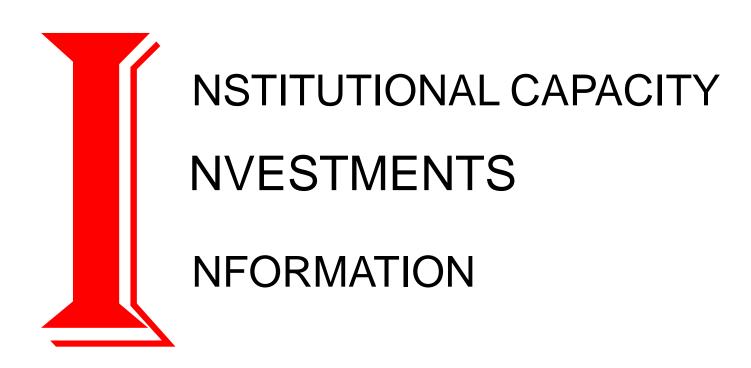


Data layers



To achieve this we thought of Localizing the SDG's by strengthening the local governments capacity of WaSH planning, Monitoring the projects, reporting as per SDG requirements assessing the gaps and being prepared for the future

Possible Gaps in Local governments



Documents prepared under WaSH plan

- •Guiding principle of WaSH plan
- Manual on How to Use NWASH to formulate WaSH plan
 - Process Manual
 - Estimation Manual
- Automated WaSH plan Draft report, which will make Local governments job easier

1. Leaving No One Behind

Financing instruments should be such that it would make whole WaSH facility accessible & affordable to everyone

including the marginalized communities. Local government should be aware that for some marginalized groups even operational costs might become the cause to limit access the facility.

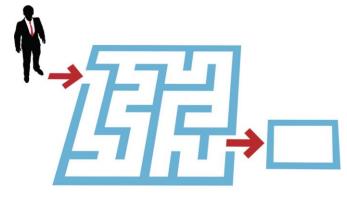


2. Monitoring of the Service

Local governments should be aware about the service level they have planned to provide in this WaSH plan and monitor

the services. The obtained data after monitoring should be submitted to National MIS portal which can be accessed by provincial government and federal government and that would show

the Local governments WaSH performance. Provincial and Federal government can assist temporarily in monitoring the service..



3. Institutional Setups

Local governments should be fully aware about the institutional arrangements needed to ensure WaSH facilities. In this WaSH plan HR cost such as Technical assistance in each scheme, monitoring cost in each scheme, Cost for Hygiene Inspector, Hygiene promoter and Human resources set up in

Schools and Health care facilities are mentioned . LOCA

government should try to ensure the human resource arrangement Provincial and Federal

government can assist temporarily in setting up the institution.



4. Capacity Development of Service Providers

This WaSH plan has estimated the **resources for**

capacity development. However

before developing the capacity the current capacity should be assessed. Depending upon the human resource and sustainability requirements from MIS data capacity development master plan of local government can be formulated. Local government can develop their capacity based upon the requirements suggested by MIS. This can be assisted by Provincial and Federal governments.



5. WaSH in All Situation

This WaSH plan has allocated the resources for WaSH in

emergencies /disaster. It is expected

that Local government would form its own contingency plan so that service could be continued in all situation and

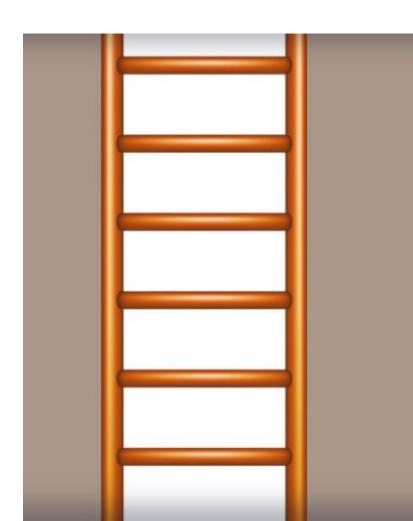
keeping special attention to vulnerable peoples.



6. Priority Setup

While setting up the Priority it is expected that the planners would keep special considerations in development of managerial capacity of the utilities in

capital investments in medium term and ,big capital investments in capital investments in later years so that investment generation becomes easier.



- 7. Availability of Fund and Bridging the Gap
 The Life-Cycle Cost Approach
 (LCCA) provides useful
 frameworks, tools and
 methodologies for providing
 better insight into this in the
 future.
- While bridging the gap local government should be fully aware that there may be requirements of guidelines, procedures for accessing different investments. Local government should try to formulate those in the first few years and develop it as a milestone. Local government can take help from Federal government, Provincial government, NGOs, INGOs in doing so.



THE MAJOR FUNDING REQUIREMENTS ARE NEITHER SEEN NOR ADDRESSED

CAPITAL EXPENDITURE

ALL REQUIRED OPERATING EXPENDITURE

Source:SWA ,financial handbook







expenditures





Capital maintenance expenditures



Direct support



Funding and financing sources

Repay

FUNDING SOURCES: THE 3 Ts

TARIFFS

User fees for services provided and households' ongoing investment in self-supply

TAXES

Domestic taxes levied by local and central governments and provided as grants and subsidies

TRANSFERS

Transfers from external sources, such as international donors (ODA grants), foundations, NGOs, remittances

REPAYABLE FINANCING

CONCESSIONAL FINANCE

Provided by development agencies with a grant element and often with grace periods and longer tenue (soft loans)

COMMERCIAL FINANCE

Provided by private sector financiers at market rat (vendor finance, microfinance, loans, bonds, equity Key:

Pre-finance

Private funds: user fees, household investments, commercial finance

Public funds: taxes, official grants, own government revenues

Mixed public and private funds: transfers from NGOs and foundations, remittances, concessional finance

Source: Adapted from World Bank⁽³⁶⁾

Source: Financial Handbook SWA

8. Monitoring, Evaluation and Reporting

• A monitoring, evaluation and learning (MEL) framework has been developed to provide comprehensive information on the reporting mechanisms needed by stakeholders to monitor the performance of the WASH delivery process. The reporting system of WASH Plan should be capable to report in line with the national and international, mainly SDG 6.1 & 6.2, goals and commitments.







All exposures and settings including households, schools, health facilities, workplaces, etc.



Safely managed Water service to all households and in institutions, previous 89% needs to be revisited

Universal



progressive reduction and elimination of inequalities between population subgroups



Planning should focus on tariff patterns and subsidies in various aspects to marginalized group

Equitable



sufficient water to meet domestic needs is reliably available close to home



In Nepals case one house one tap policy where all water needs (drinking,cooking and hygienic needs are met

Access





free from pathogens and elevated levels of toxic chemicals at all times



In Nepal's case we can focus on Coliform and Arsenic (Globally there is fluoride too *)





Payment for services does not present a barrier to access or prevent people meeting other basic human needs



Planning should focus on tariff patterns and subsidies in various aspects to marginalized group

Affordable



Drinking water

Water used for drinking, cooking, food preparation and personal hygiene



Suitable for use by men, women, girls and boys of all ages including people living with disabilities





free from pathogens and elevated levels of toxic chemicals at all times



In Nepal's case we can focus on Coliform and Arsenic (Globally there is fluoride too *)





Payment for services does not present a barrier to access or prevent people meeting other basic human needs



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Affordable



Drinking water

Water used for drinking, cooking, food preparation and personal hygiene



Suitable for use by men, women, girls and boys of all ages including people living with disabilities





Access

facilities close to home that can be easily reached and used when needed



Adequate

A system which hygienically separates excreta from human contact as well as safe reuse/treatment of excreta in situ, or safe transport and treatment off-site



Equitable

progressive reduction and elimination of inequalities between population subgroups



Planning should focus on tariff patterns and subsidies in various aspects to marginalized group



Sanitation

Provision of facilities and services for safe management and disposal of human urine and feces



conditions and the practices that help maintain health and of spread prevent handwashing, disease including menstrual hygiene management and food hygiene





Suitable for use by men, women, girls and boys of all ages including people living with disabilities

For all



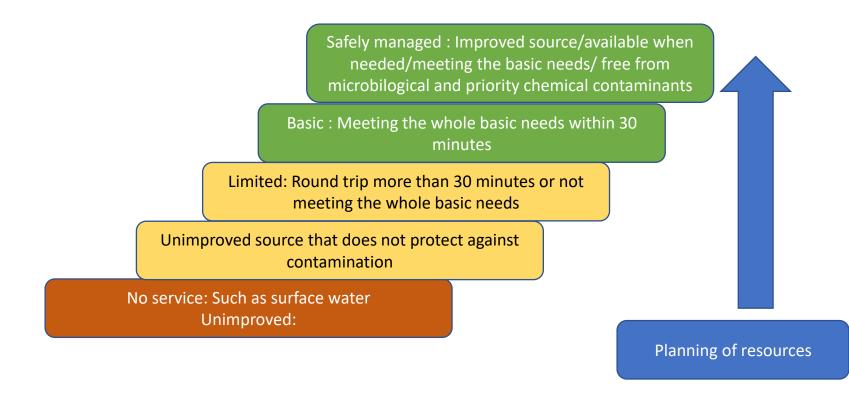
Reducing the burden of water collection/ hygiene needs with dignity/ special attention to women and vulnerable people in high use settings such as school /hospital etc.

Paying special attention to the needs of women and girls



Implies attention to specific WASH needs found in 'special cases' including refugee camps, detention centers, mass gatherings and pilgrimages

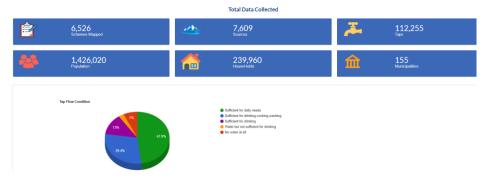
Water Supply (Ladder of services)



Sanitation & Hygiene (Ladder of services)



Profiling



Profiling

Goal setting

Road Map to SDG

5 Year plans and other national plans can be reference documents for local level (Recent analysis tool as taken SDG as reference for minimum goal)

Profiling

Goal setting

Develop the activities

Development of projects and other activities

Profiling

Goal setting

Develop the activities

Prioritization of projects & gap options

Setting the priorities short term/medium term/long term and options for bridging the gap

How the MIS will be used? DSS for WASH UTILITIES

WASH Utilities

Utilities vision might be to cross 70 Number in Functionality or sustainability
Or satisfying SDG criteria
Or being efficient after satisfying SDG criteria



Indicators of MIS



Giving the Utilities Business plan as per their vision



How the MIS will be used? DSS /MIS for Local governments

Local governments

WaSH plan development





Identifying the Material requirements per year can help business development







How the MIS will be used? MIS for Federal & Provincial governments

Federal and Provincial governments

SDP revision /tracking

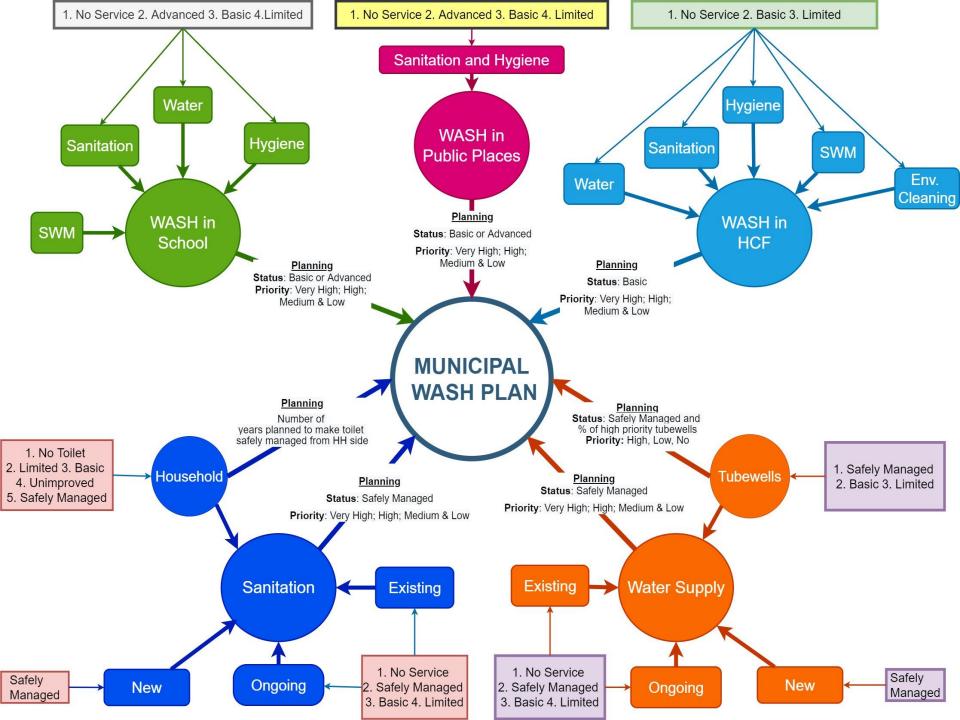


SDG Monitoring



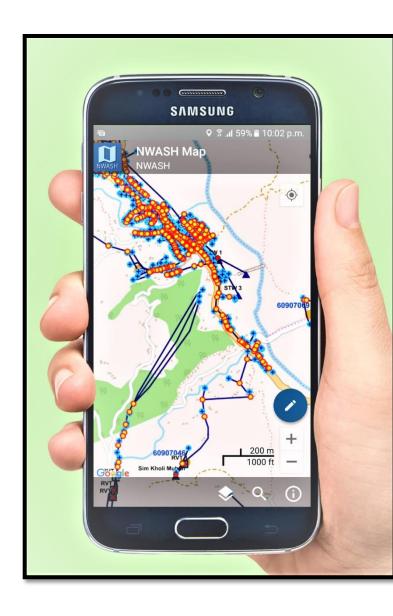
Identifying the investment options Developing result based financing Developing guidelines/policy etc.





NWASH

Web based & GIS enabled MIS



NWASH WEBSITE

http://nwash.mows.gov.np/

NWASH APPLICATIONS

Apps



NWASH Softwel



NWASH Inventory Softwel



NWASH Household Softwel



NWASH Project Sus Softwel



NWASH Unserved F Softwel



NWASH Communit Softwel



NWASH Map Softwel



NWASH Drainage Softwel



NWASH School Que Softwel



NWASH Grievance Softwel



NWASH Health Car Softwel



NWASH Solid Wast Softwel



NWASH Condition Softwel

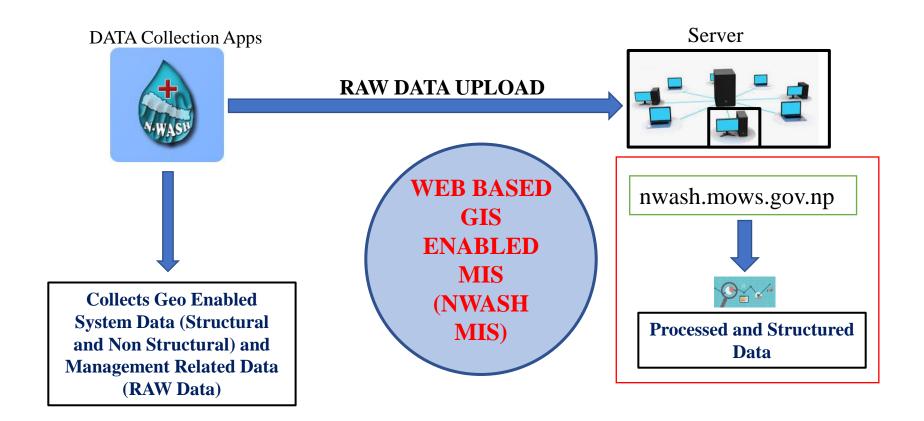


NWASH Institution Softwel



NWASH Public Toile Softwel

PROCESS INVOLVED



National level Progress

Water Supply system

13,673

Community Sanitation

3,476

WASH in SCHOOL

13,684

WASH in Household

1,079,289



Public Place

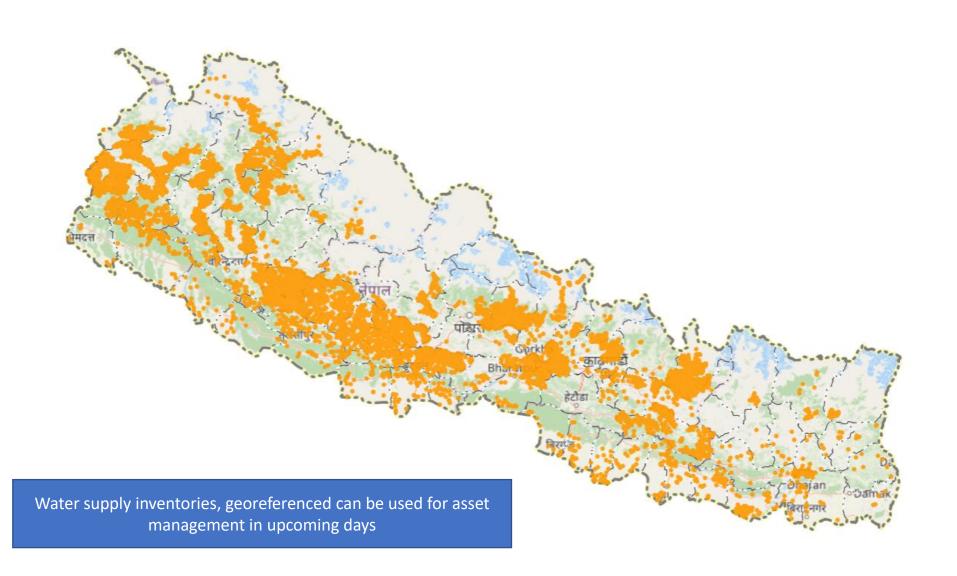
2,152

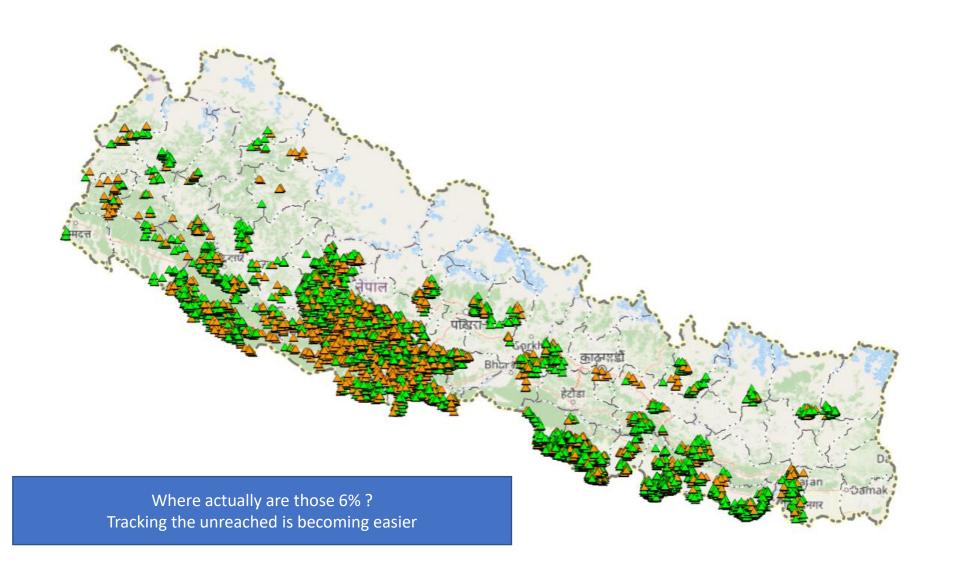
WASH in HCF

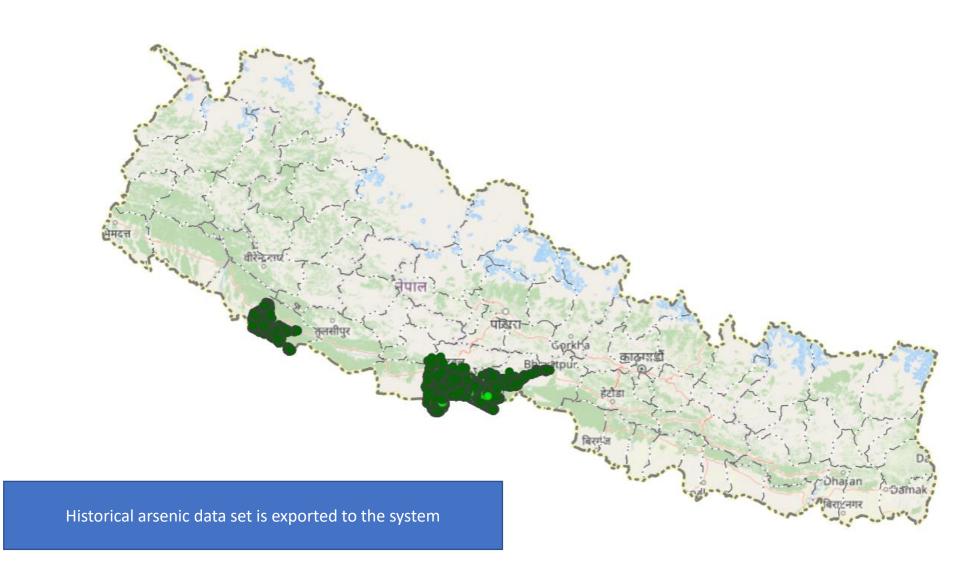
3,499

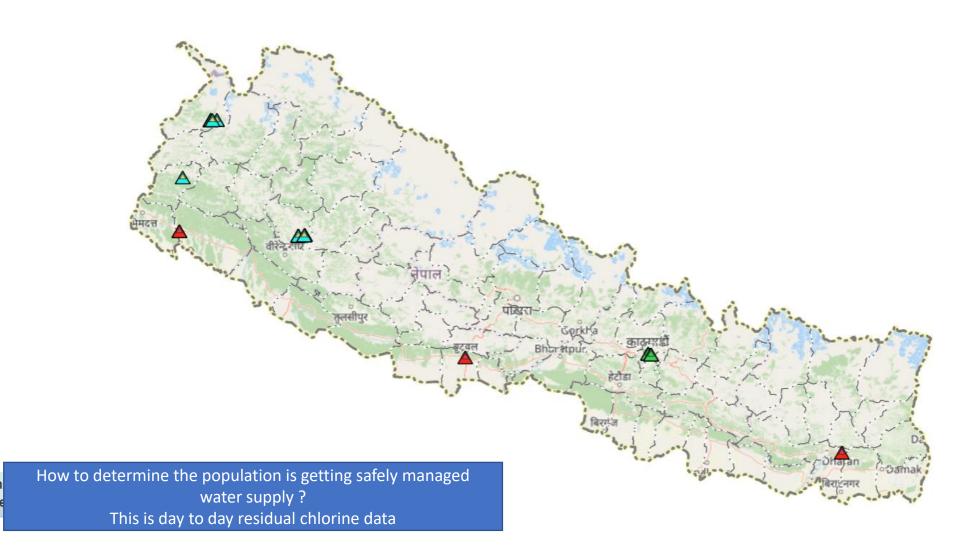
Unserved Community

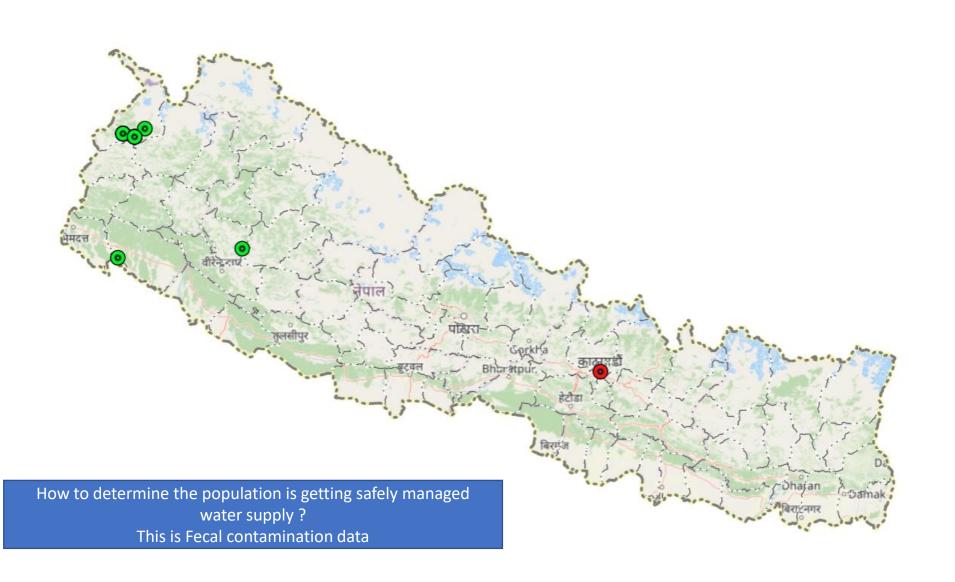
8,132

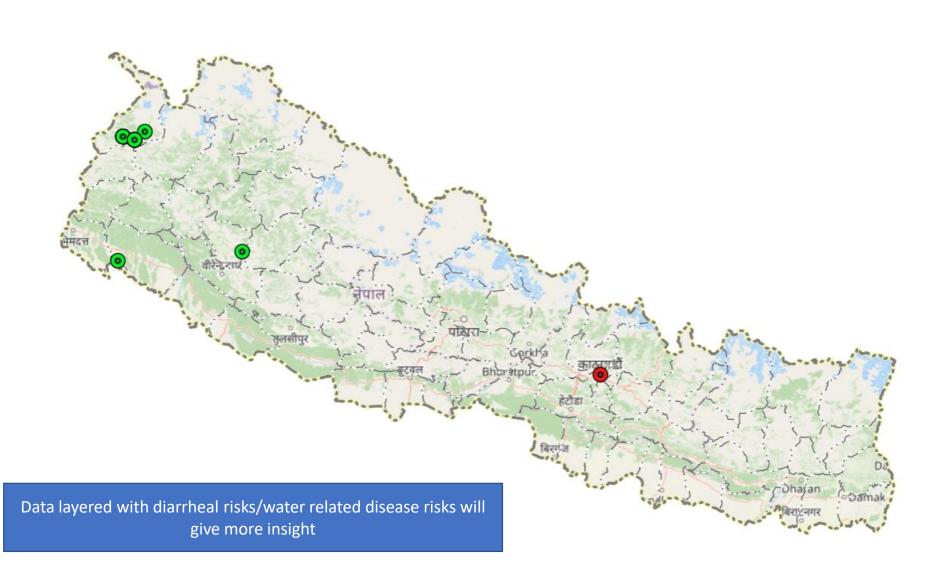


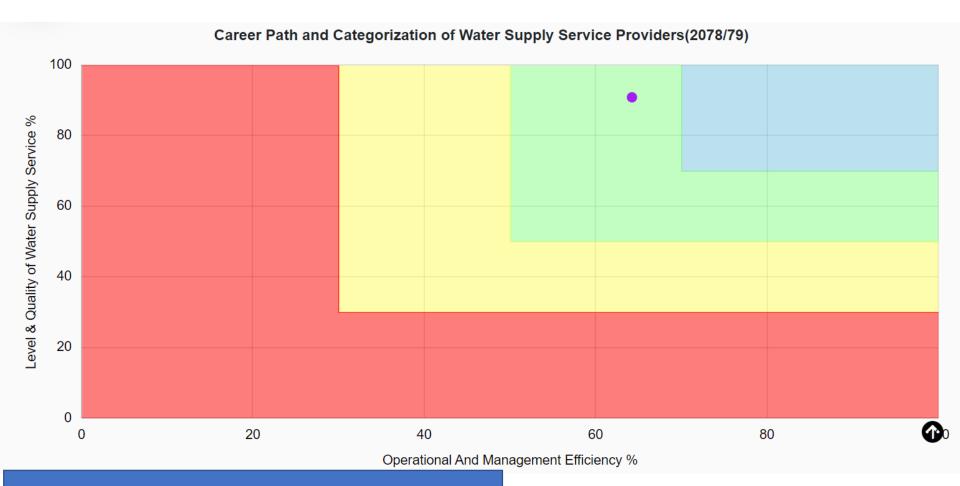










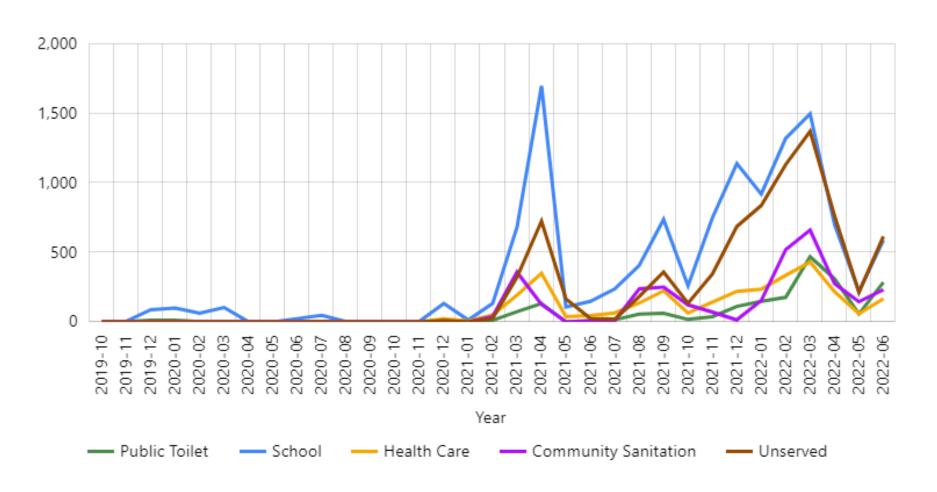


How to determine which utility requires what kind of support to reach SDG's (KPI based tracking)

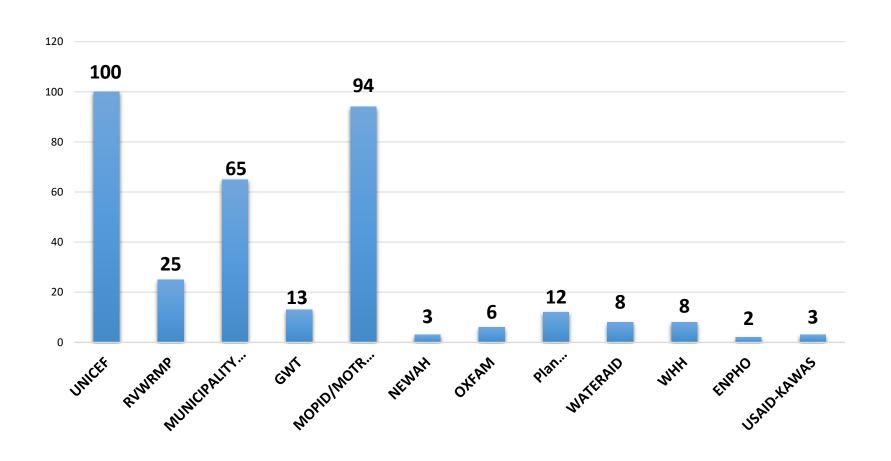
This initiative is still evolvingwe can grow together



Data collection Progress



AGENCY COVERAGE



MIS TIMELINE AND COLLABORATORS INVOLVED

















unicet

WATER QUALITY HR SUPPORT TO MIS



UNIT/TRACKFIN

UTILITY CAREER PATH/BUSINESS **PLAN OF** UTILITIES/TARIFF **CALCULATOR**

WASH PLAN/SDG 6.1 AND 6.2 REPORTING/SERVER SUPPORT TO GOVERNMENT/HR SUPPORT TO

MIS UNIT

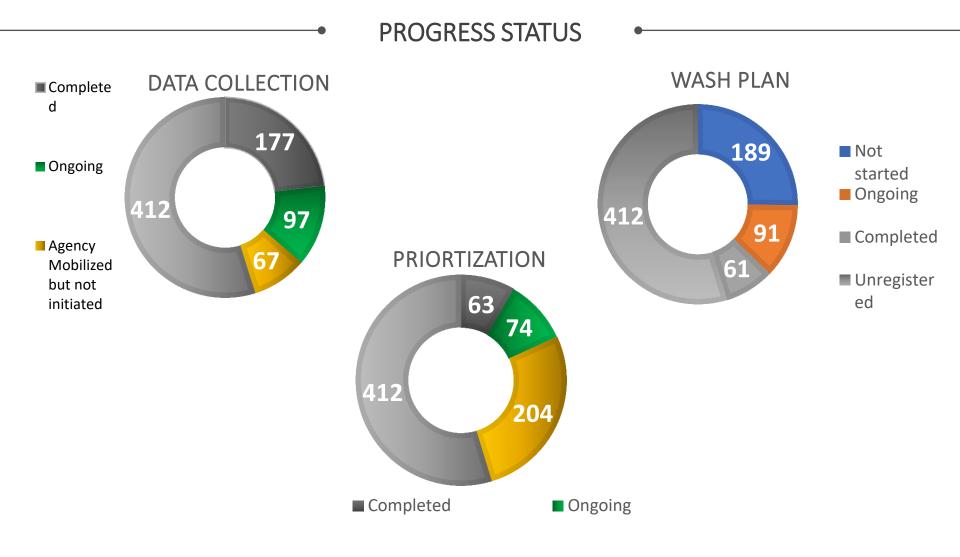


MARKET DASHBOARD **CWIS/SANITATION BENCHMARKING GOVERNANCE ASSESSMENT**

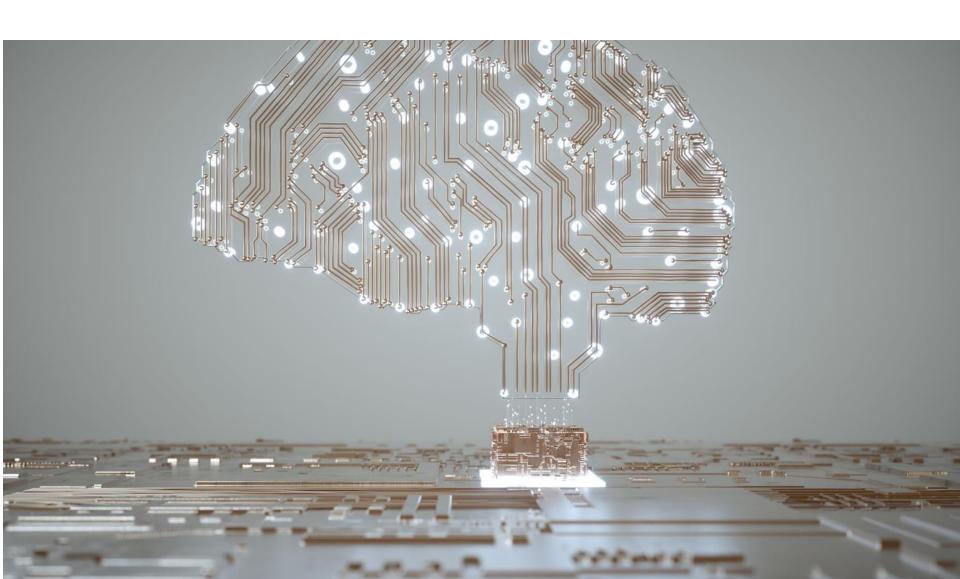
MIS- the success story

- Sectoral acceptance/recognition
- Praised in SWA (Demonstrated to SWA, Cambodia government)
- Presented with JMP and GLAAS team
- Presented in Climate forums
- Enumerators trained virtually





NWASH-MIS, Optimization possibilities with Artificial Intelligence/ Machine Learning



We checked the possibility

And the results are encouraging





Integrating AI into the asset management of rural water supply schemes in Nepal: Discovery Report



Problems





Mass data collection/

Heterogeneous enumerators/

Very difficult to validate and find the data risk



Perception Based



Every
stakeholder
has
different
data needs





Left - Tap identified by our algorithm. Right - Tap and Mounting Post as identified by our model.





Left - Corrosion identified by our model. Right - Broken tap identified by our model/

Maintenance condition mentioned in NWASH
GOOD
MINOR REPAIR
MAJOR REPAIR
REHABILITATION
Based upon perception

Question that was not asked during the survey and has importance such as:

Sanitary Condition



Question that was not asked during the survey and has importance such as

Whether the tap is child friendly or not? Whether it is easily accessible to disabled people or not?



Q: शौचालयको भित्ता केले बनेको छ?

- ढुंगा
- बासको टाटी `
- इँटा/ब्लक
- पाल/कपडा/बोरा
- अन्य

Translated:

What is the toilet wall made of?

- Stone
- Bamboo
- Bricks/Blocks
- Tents/clothes/sacks
 - Other

Thank you