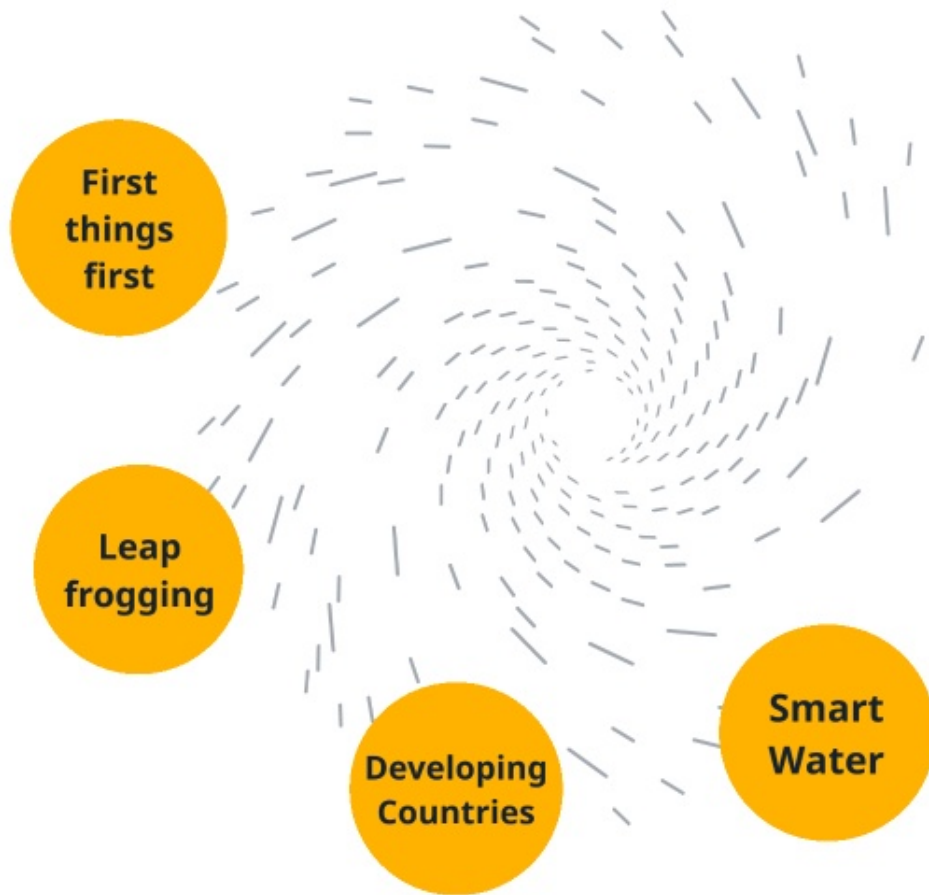


Smart Water in Developing Countries

First things first
or leap-frogging?



Smart Water

Derived from electricity smart grids

Optimizing water management through

- increased monitoring
- interlinked data analysis
- data driven operation

*Monitoring
and Data
Collection*

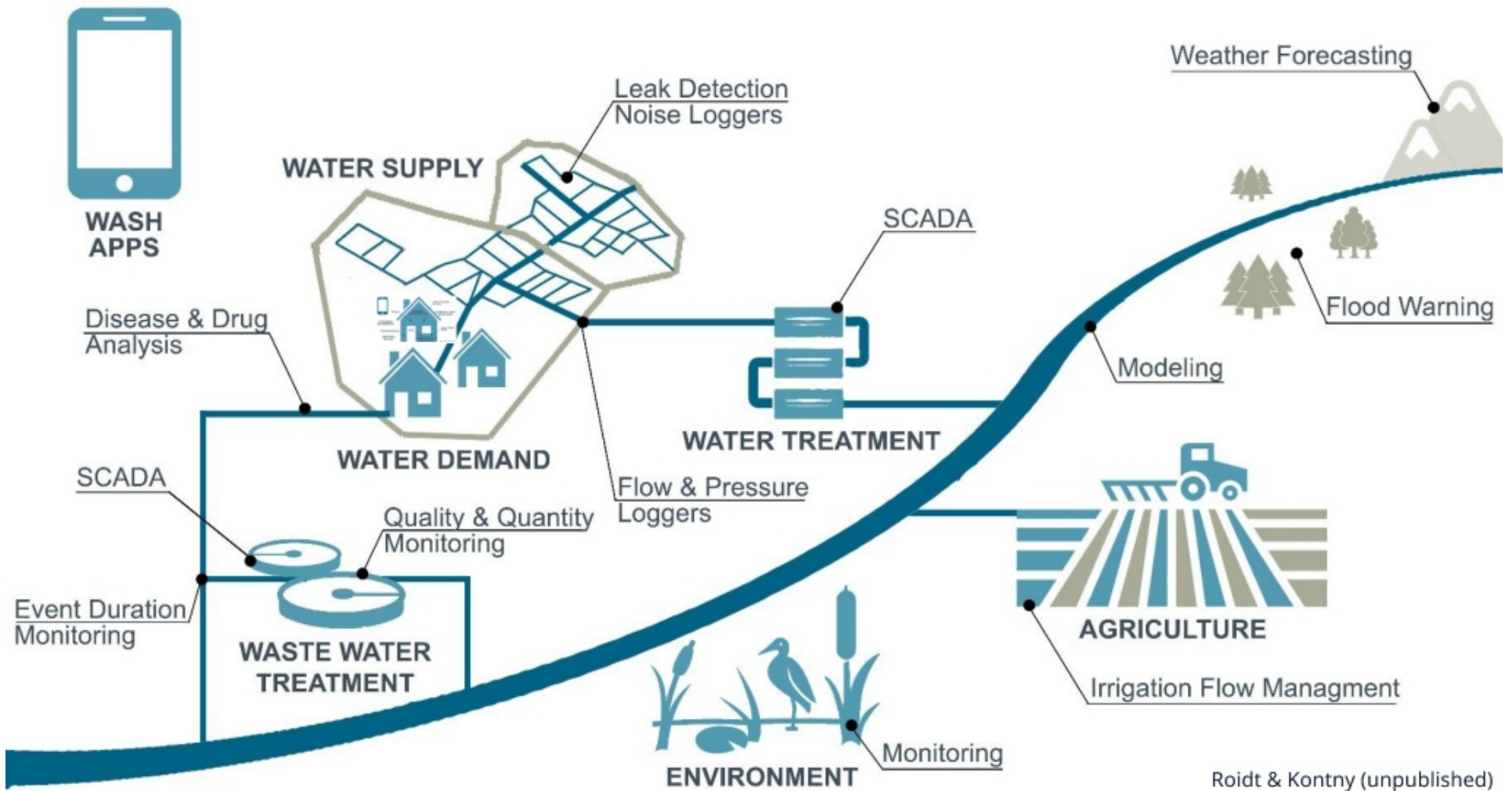
*Data
Transmission
and Recovery*

*Data
Manipulation*

*Data
Interpretation*

*Data
Presentation*

Owen (2018)



Roidt & Kontny (unpublished)



CUSTOMER INFORMATION

Shower

DEMAND MANAGEMENT

Other Domestic Devices

DOMESTIC LEAK DETECTION

Washing Machine

IMPROVED BILLING

Valve

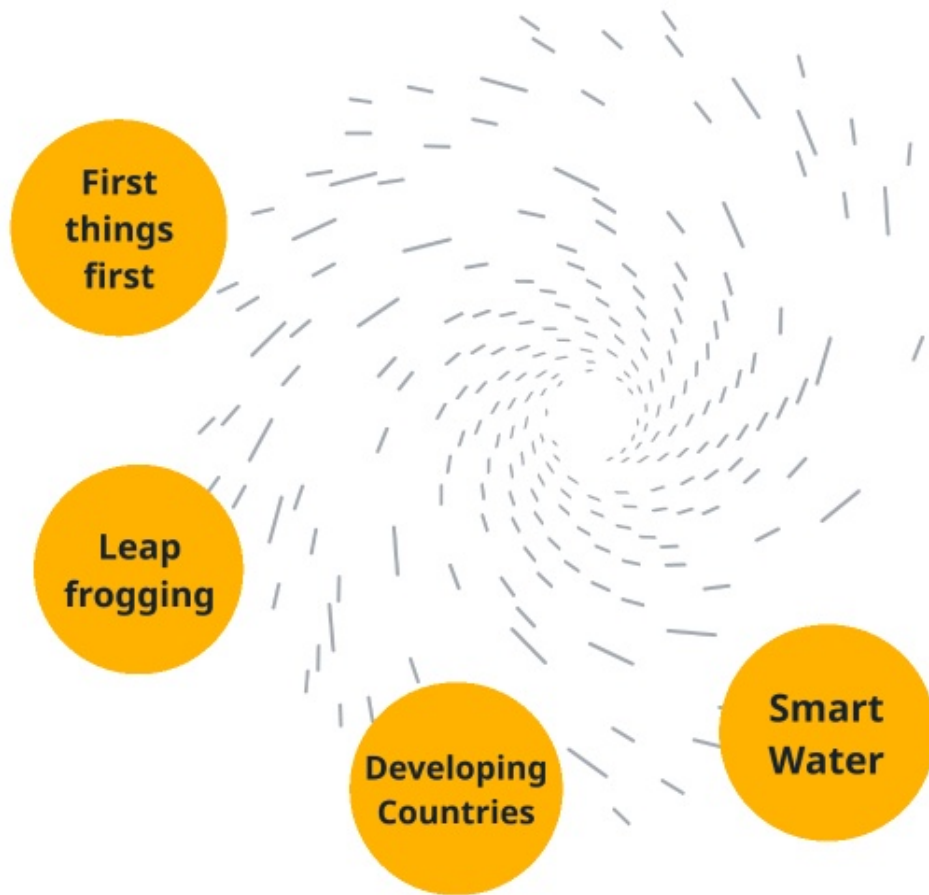
DOMESTIC FLOOD PREVENTION

Smart Water Meter

Roidt & Kontny (unpublished)

Smart Water in Developing Countries

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Smart Water in Developing Countries

Mobile Communications Revolution

- smartphone based meter reading
- SMS based billing
- mobile payments (M-Pesa)
- mobile survey apps
- water leak reporting apps

Owen (2018)

KOSOVO

Smartphone based Customer Survey

KOSOVO

SCADA in water treatment

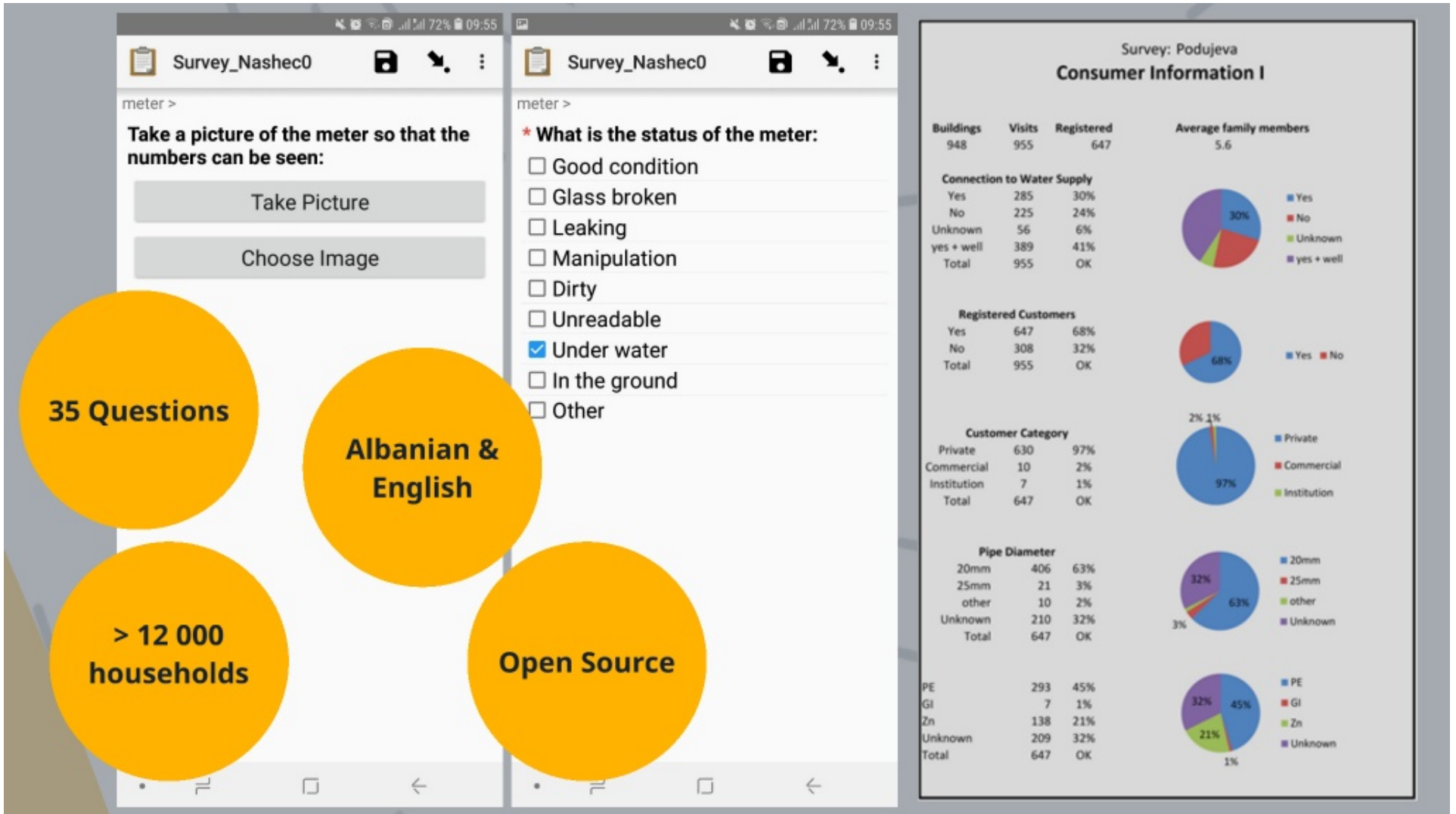
KOSOVO

Real time flow measurements

JORDAN

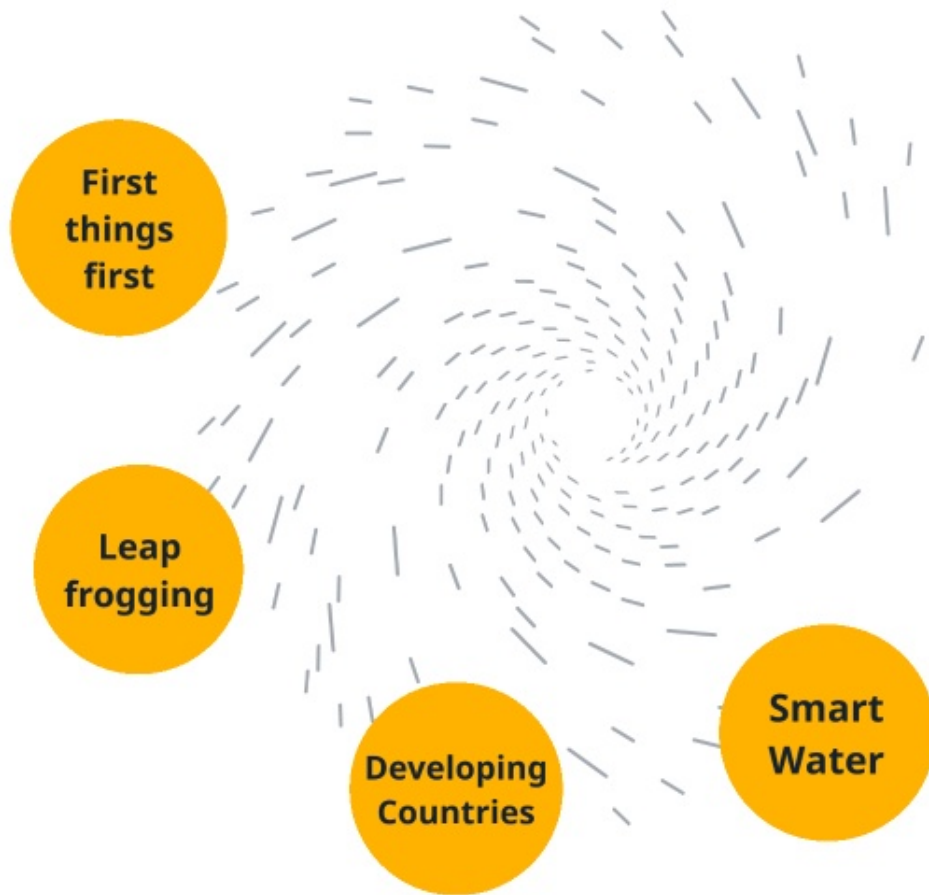
GIS and Smartphone based Revenue Collection

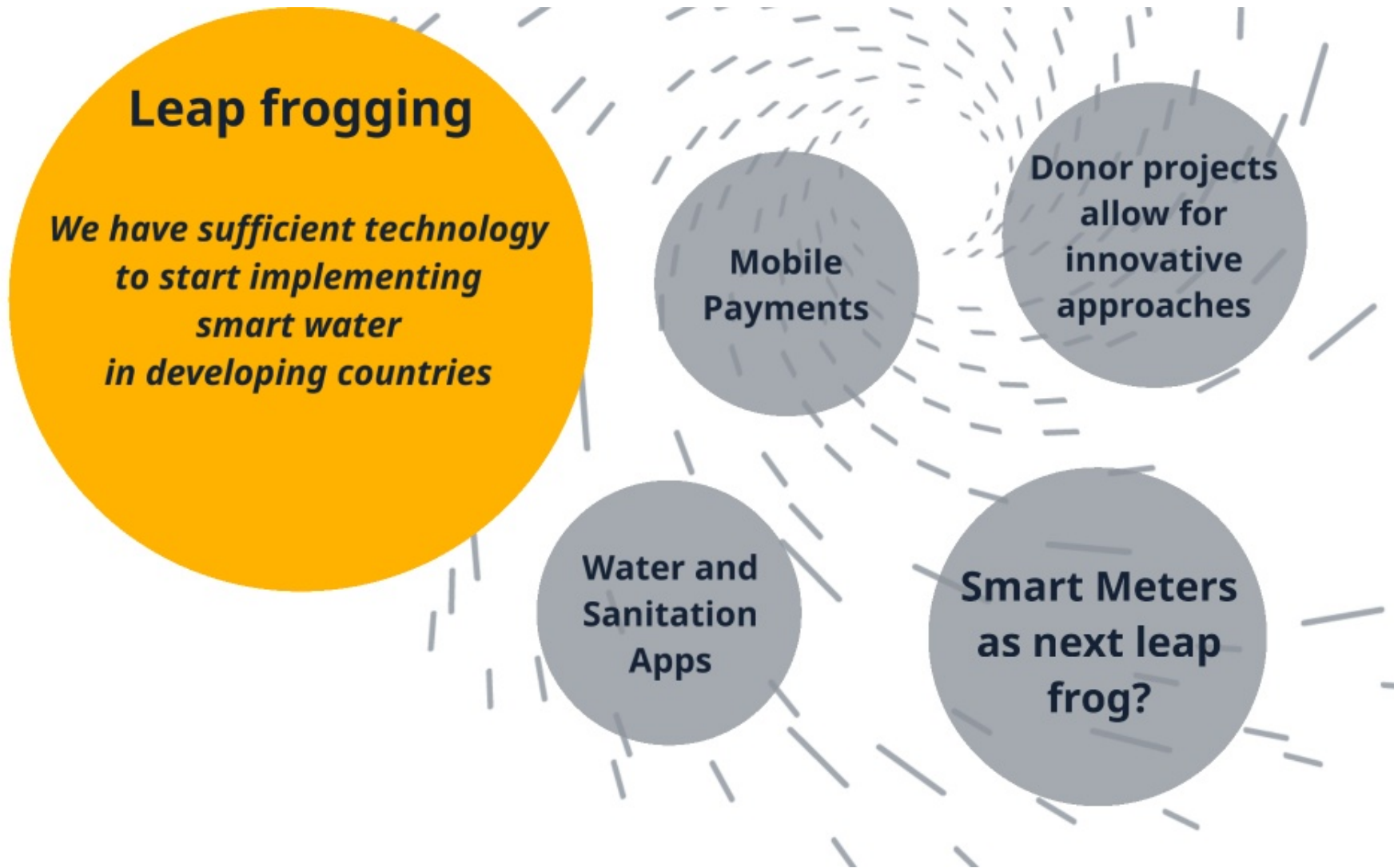




Smart Water in Developing Countries

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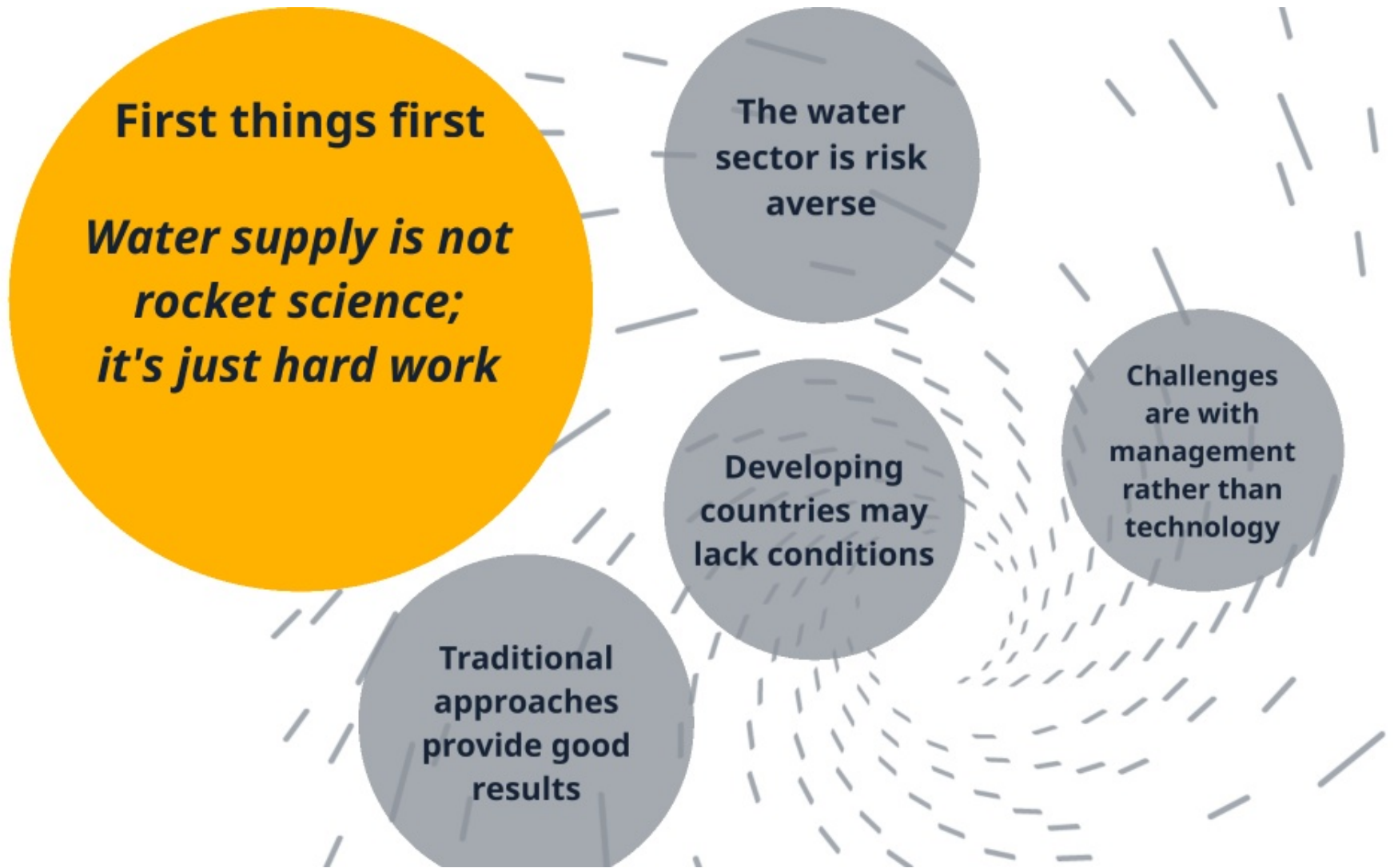




Smart Water in Developing Countries

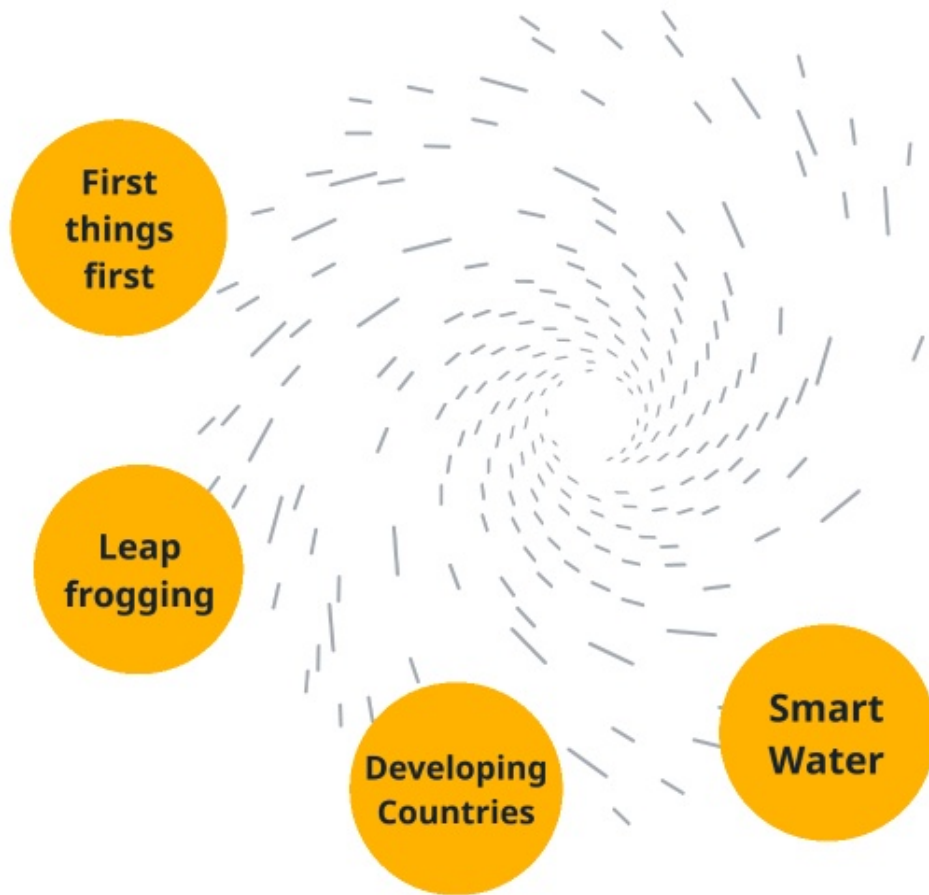
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Smart Water in Developing Countries

First things first
or leap-frogging?





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**Thank you
for your
attention !**

Literature:

Owen, D. A. L. (2018). Smart water technologies and techniques: data capture and analysis for sustainable water management. John Wiley & Sons.