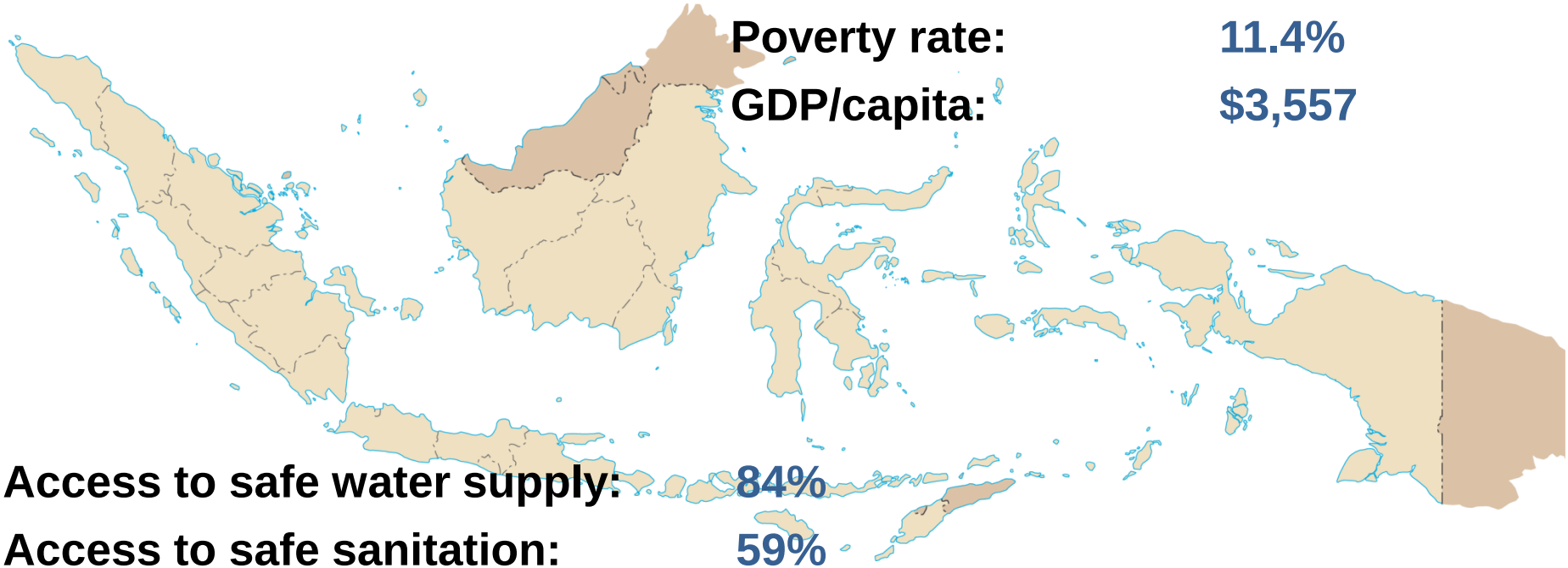
Managing fecal sludge trucks through mobile technology

wsp
water and
sanitation program

Martin Albrecht
Water and Sanitation Specialist

Spotlight on Indonesia



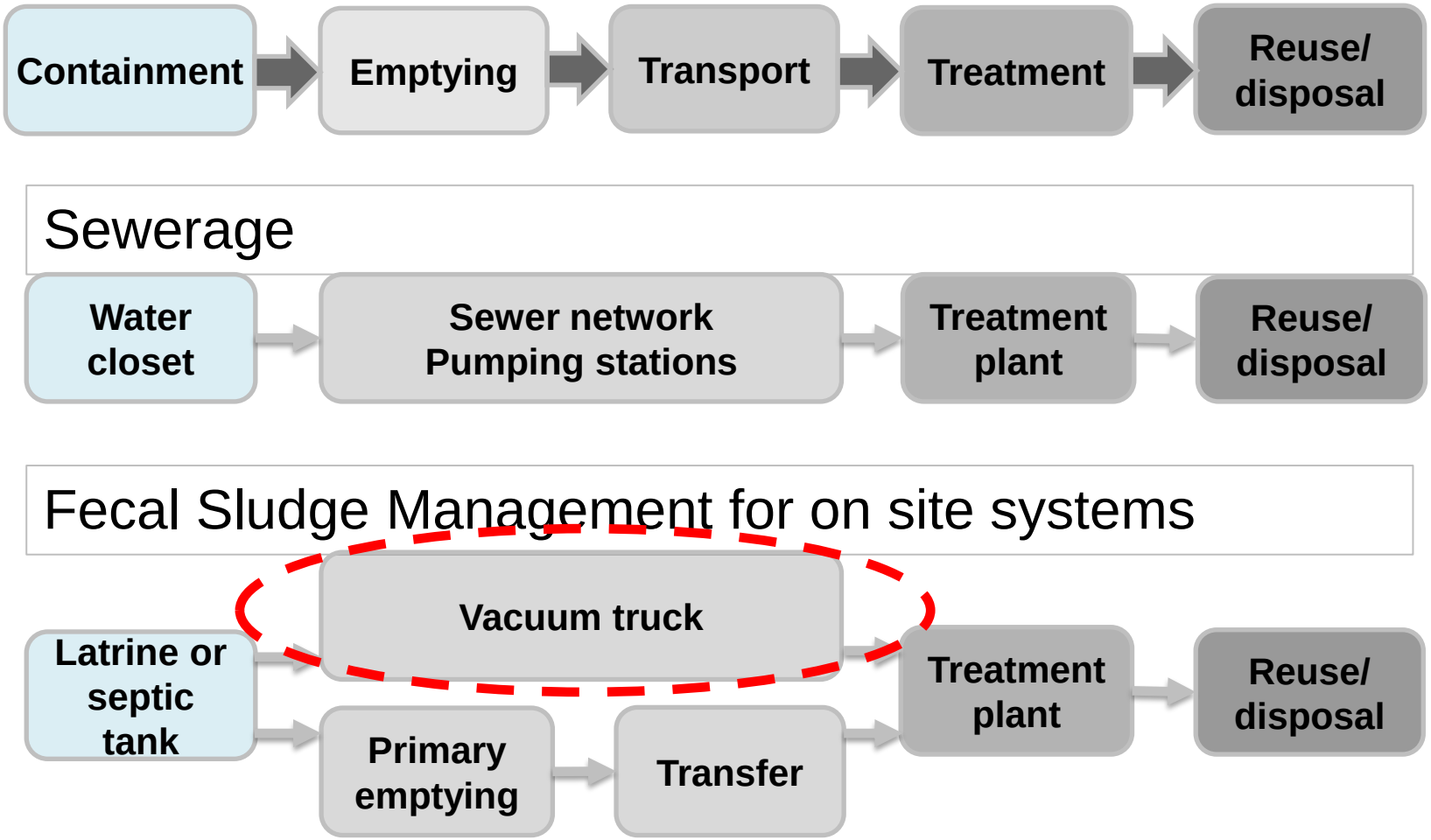
Population:	**240 million**
Economic growth:	**5.3%**
Poverty rate:	**11.4%**
GDP/capita:	**$3,557**

Access to safe water supply:	**84%**
Access to safe sanitation:	**59%**
Open defecation:	**58 million people**

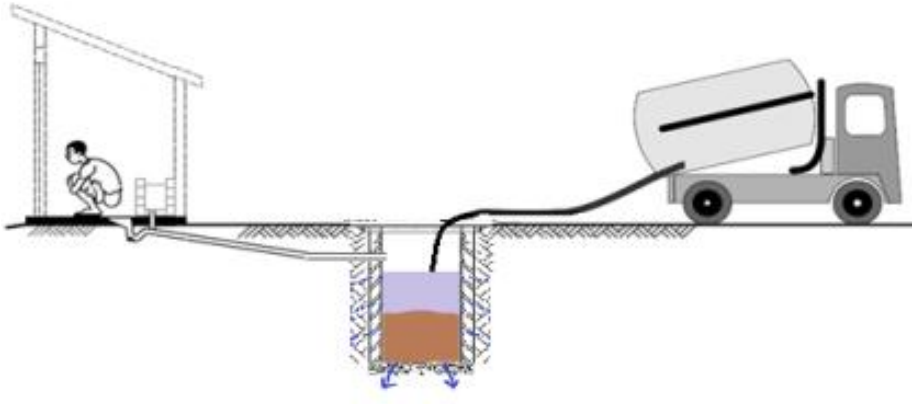
~75% of urban population use septic tanks or pit latrines

Only 4% of septage properly treated

Sanitation service chain



Fecal sludge collection through vacuum trucks





Current collection system:

- Household initiates septic tank emptying request
- Sludge truck empties septic tank, gets paid full fee
- Often truck disposes sludge into environment, not treatment plant

→ Low incentive for household to request emptying

→ Low incentive for truck to dispose at treatment plant

Challenges:

- No information on market, customer base, running costs, revenues
- Bad management

Mobile phones to scan locations



Android-based application

Client to be serviced

Dispose of sludge at treatment plant

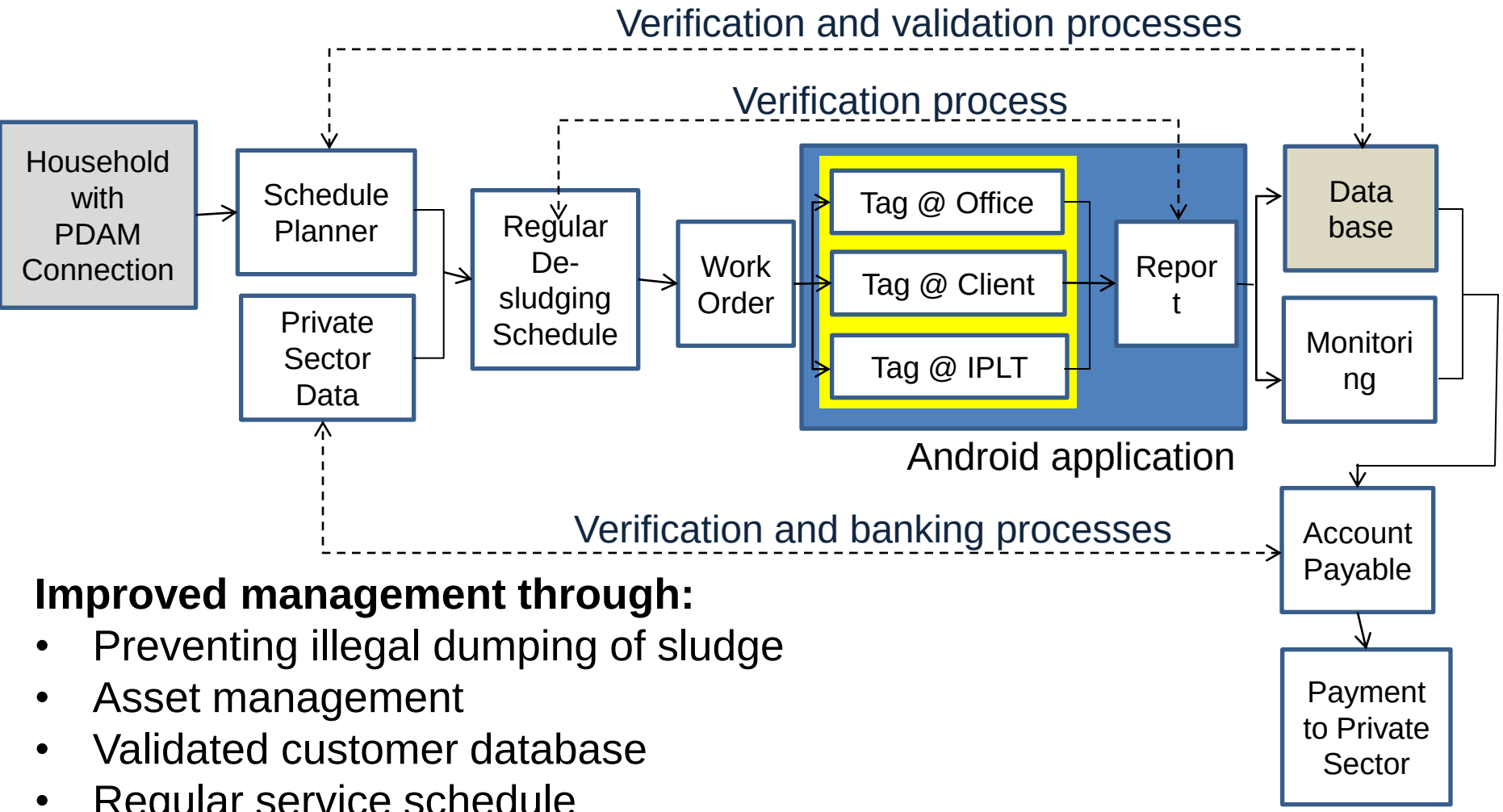
Base



Data processing

Payment to Service Provider (Private Sector)

Improved management



Improved management through:

- Preventing illegal dumping of sludge
- Asset management
- Validated customer database
- Regular service schedule
- Plannable revenues

Thank You

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www.wsp.org
Worldbank.org/water