



0000

BUILDING HEALTHY CITIES

It's All Connected

Makassar Journey Map Series 2018-2021

About This Series

Building Healthy Cities (BHC) is a USAID-funded learning project in four Smart Cites in Asia – Indore, India; Makassar, Indonesia; Da Nang, Vietnam; and Kathmandu, Nepal. BHC is testing how to successfully apply urban planning approaches that improve the social determinants of health in complex systems.

BHC uses exploratory data collection, multisectoral engagement, and citizen participation. This systems approach informs project activities and the prioritization of city-funded workplans. The combined impact should improve the lives of all residents in these three cities and reduce preventable mortality.

BHC is using several tools and processes to create coalitions and organize its approach in each city. One key process is systems mapping to illustrate the key dynamics (patterns underlying problems) and define key entry (or 'leverage') points to address social and environmental determinants of health. Another way that BHC is documenting citizen experiences in each city is through Journey Maps.

The Journey Maps apply 'design thinking' approaches, which are often used to tailor products to intended customers; citizens are like customers in that they pay taxes or fees to use city services. BHC has adapted this tool to document the experience (or 'journey') of citizens who are trying to overcome one service issue in each city, over time, updated on a quarterly basis. The specific topics were identified during the first year of activities in each city and fit within the larger context shown in the systems maps. BHC is using these Journey Maps to track citizen and city official perspectives, and to document change at the neighborhood level.

BHC is training people in each neighborhood to develop and use these Journey Maps and on grassroots advocacy techniques. By bringing the citizen experience directly to city planners, BHC hopes to better align municipal planning with community priorities such as safe water, clean air, hygiene, traffic safety, and other key components of healthy urban living.

Life of Project Journey Map Summary

BHC is concluding the Journey Maps in 2021. This process brought insights into day-to-day service availability for Makassar residents, and created a regular dialogue with the community and city offices about the causes, consequences, and potential solutions to persistent urban health-related issues.

After a slow start to this 4-year map focused on reducing flooding, an influx of funding and interest in years 2 and 3 resulted in positive structural and behavior changes in this neighborhood. BHC connected citizens and key city officers to help address neighborhood concerns. Flooding is now significantly decreased compared to the beginning of the map. Going forward, the city will need to continue to invest some funds and time to maintain the structural improvements as they age.













Makassar Journey Map #1 – It's All Connected

YEAR 1 Water is a multi-face tea issue in medians in dirty water overflows out of open drains in some neighborhoods, and this is often compounded by flooding in the rainy season. Clean water supply is hampered by outages and leak-ing infrastructure. The water pollution in Makassar is primarily from domestic wastewater, which is discharged to a network of open stormwater drains. Household behaviors are also a cause of over-flows, as common practice is to dispose of garbage in stormwater drains. When stormwater drains are

Negative Action

Government

Official

No Action

Service

Special Note

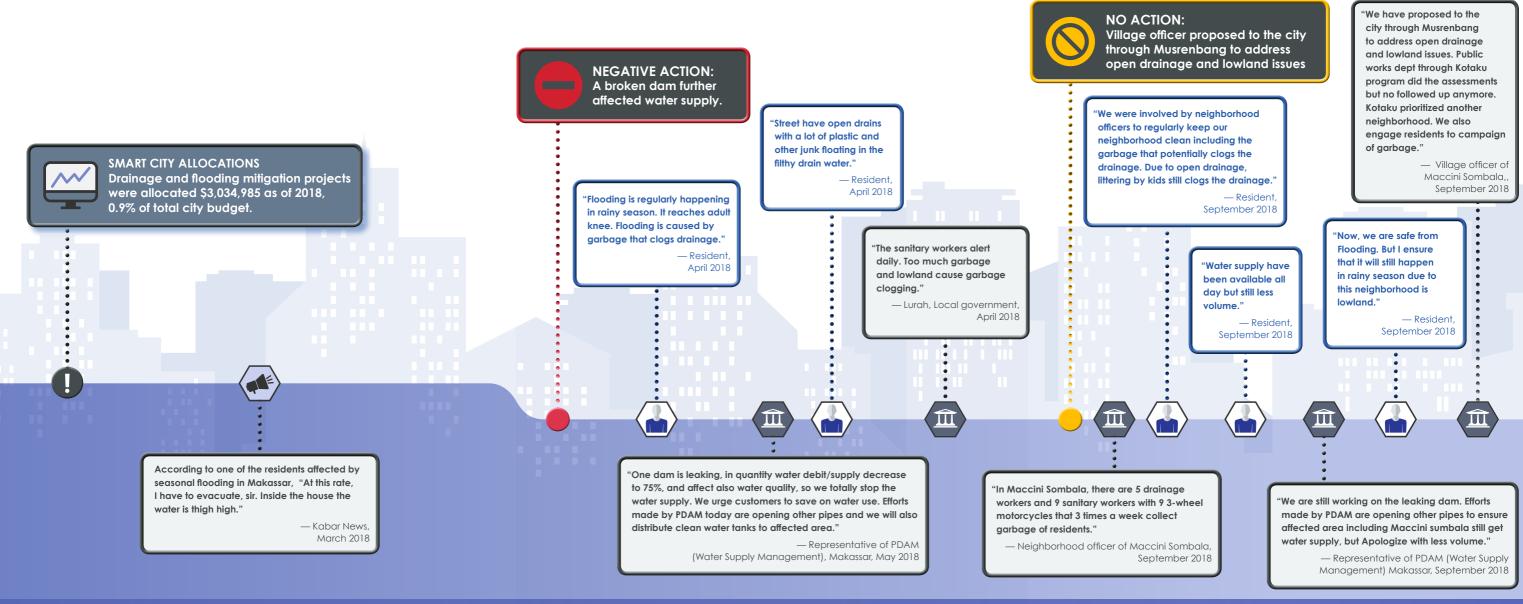
Data Point

KEY:

Action

blocked, rainwater has nowhere to go, and houses will flood with dirty water. The issue of flooding was a key topic of discussion in the BHC Health Needs Assessment focus groups - they said their biggest complaint re-garding city services was with flooding. According to information received from Smart City Makassar, the city had 21 flood-prone ar-eas and 7 critical hotspots for flooding (Technical Team Makassar Smart City 2017). This journey follows one heavily populated area, where the majority are informally employed in service sector and daily labor.





Building Healthy Cities is a five-year cooperative agreement funded by the United States Agency for International Developmen (USAID) under Agreement No. AID-OAA-A-17-00028, beginning September 30, 2017. BHC is implemented by JSI Research & Training Institute, Inc. (JSI) with partners International Organization for Migration, Thrive Networks Global, and Urban Institute, and with support from Engaging Inquiry, LLC. This report is made possible by the generous support of the American people through USAID. The contents are the responsibility of Building Healthy Cities and do not necessarily reflect the views of USAID or the United States government.













BUILDING HEALTHY CITIES

Makassar Journey Map #1 - It's All Connected

YEAR 2 Water is a multi-faceted issue in Makassar – dirty water overflows out of open drains in some neighborhoods, and this is often compounded by flooding in the rainy season. Clean water supply is hampered by outages and leaking infrastructure. The water pollution in Makassar is primarily from domestic wastewater, which is discharged to a network of open stormwater drains. Household behaviors are also a cause of overflows, as common practice is to dispose of garbage in stormwater drains. When stormwater drains are blocked, rainwater has

Government

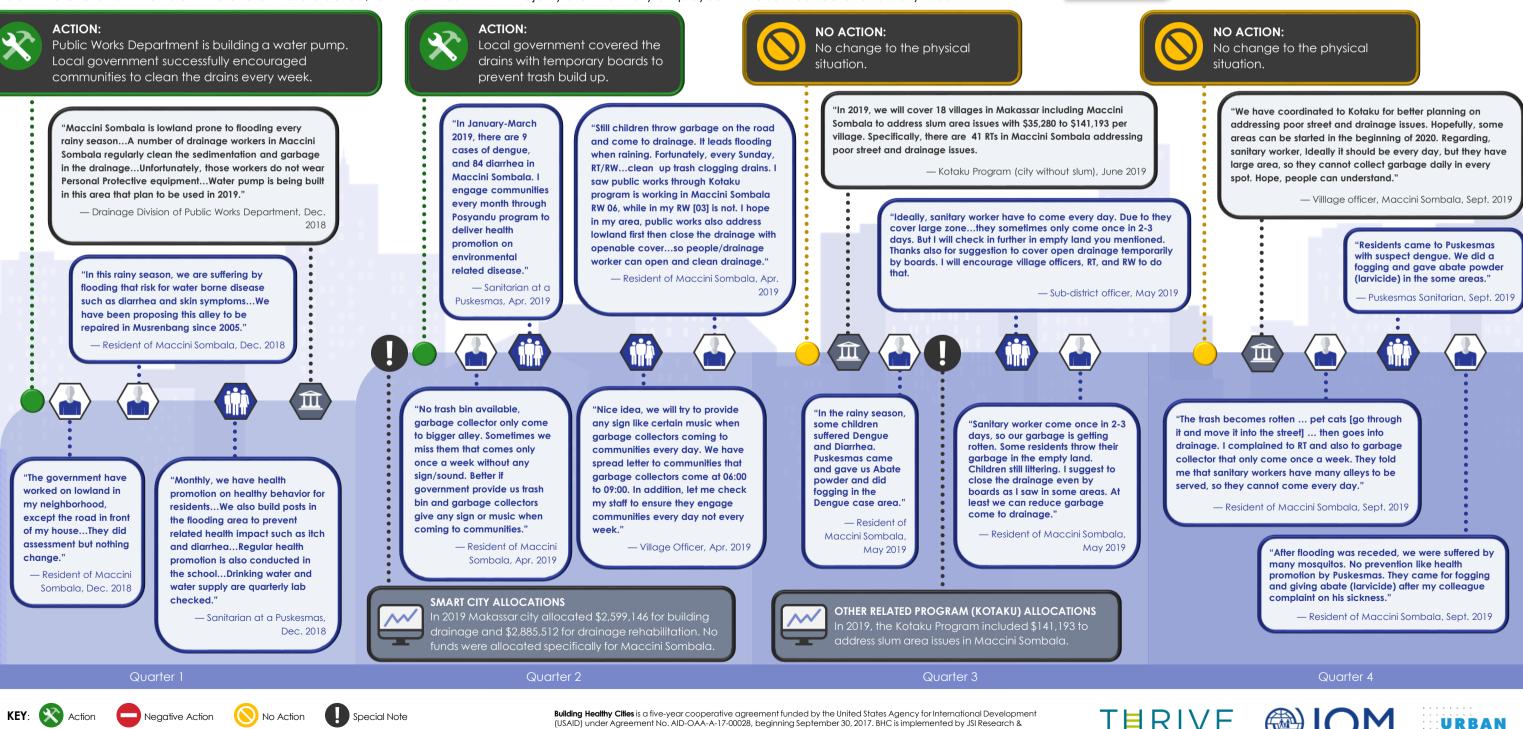
Official

Service

Provider

🛛 🔍 Data Point

nowhere to go, and houses will flood with dirty water. The issue of flooding was a key topic of discussion in the BHC Health Needs Assessment focus groups - they said their biggest complaint regarding city services was with flooding. According to information received from Smart City Makassar, the city had 21 flood-prone areas and 7 critical hotspots for flooding (Technical Team Makassar Smart City 2017). This journey follows one heavily populated area, where the majority are informally employed in the service sector and daily labor.



Training Institute, Inc. (JSI) with partners International Organization for Migration, Thrive Networks Global, and Urban Institute,

through USAID. The contents are the responsibility of Building Healthy Cities and do not necessarily reflect the views of USAID or

and with support from Enagging Inquiry, LLC. This report is made possible by the generous support of the American people

the United States government.







An open drain (left) in April 2018. A drain temporarily covered by boards (right) in April 2019.







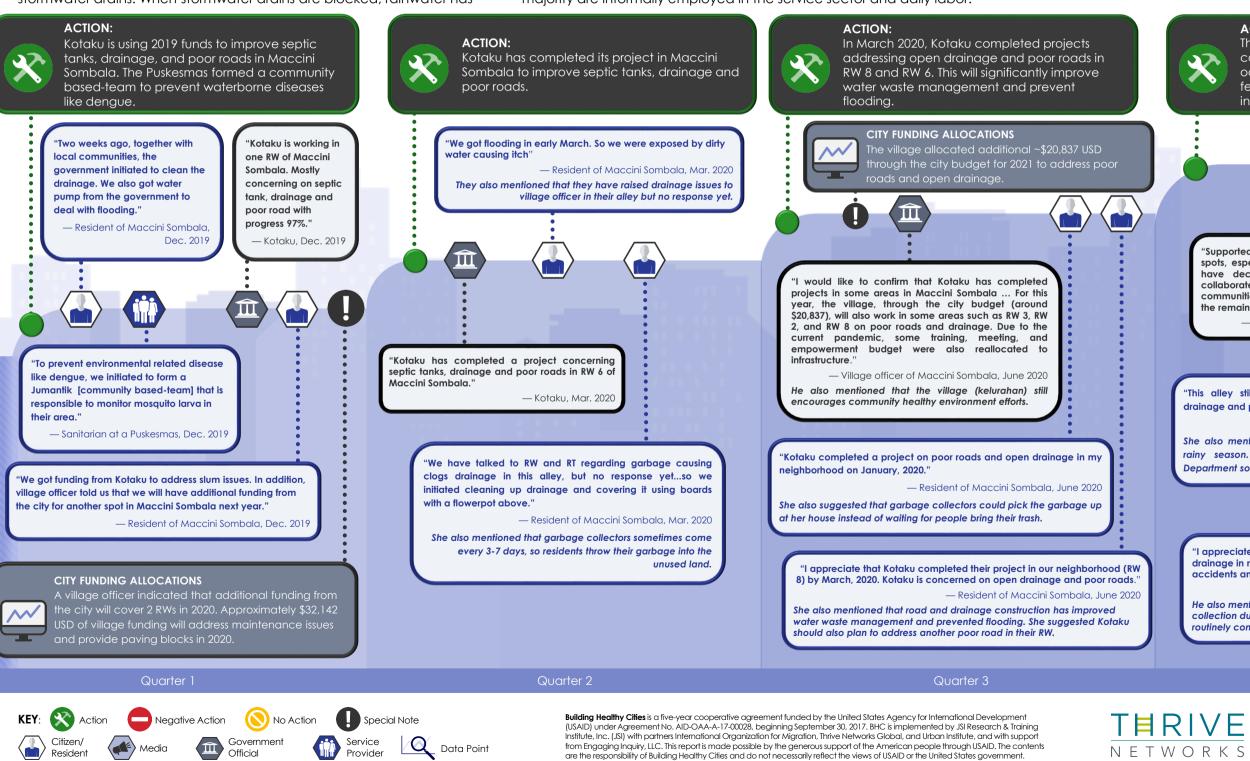


Makassar Journey Map #1 - It's All Connected

YEAR 3 Water is a multi-faceted issue in Makassar – dirty water overflows out of open drains in some neighborhoods, and this is often compounded by flooding in the rainy season. Clean water supply is hampered by outages and leaking infrastructure. The water pollution in Makassar is primarily from domestic wastewater, which is discharged to a network of open stormwater drains. Household behaviors are also a cause of overflows, as common practice is to dispose of garbage in stormwater drains. When stormwater drains are blocked, rainwater has

nowhere to go, and houses will flood with dirty water. The issue of flooding was a key topic of discussion in the BHC Health Needs Assessment focus aroups - they said their biggest complaint regarding city services was with flooding. According to information received from Smart City Makassar, the city had 21 flood-prone areas and 7 critical hotspots for flooding (Technical Team Makassar Smart City 2017). This journey follows one heavily populated area, where the majority are informally employed in the service sector and daily labor.



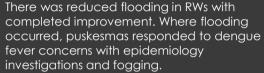






In 2020 Kotaku completed work to prevent flooding, including a concrete fence (left), closed drainage, and a better road (right).

ACTION:



"Supported by Kotaku, flooding spots, especially in RW 8 and RW 6 have decreased. We will try to collaborate with sub-district office. communities and NGOs to address the remained open drainage." — Village Officer, Sept. 2020

"This alley still has an open drainage. It affects clogs drainage and puddle in my neighborhood."

- Resident of Maccini Sombala, Sept. 2020

She also mentioned that she got itch and diarrhea in the rainy season. She appreciated that the Public Works Department sometimes cleans the drainage.

"I appreciate that government has worked on the poor road and open drainage in my neighborhood. Previously, every rainy season, there were accidents and puddles here.

Resident of Maccini Sombala, Sept. 2020

He also mentioned that there was no different service for garbage collection due to COVID-19. He also suggested that Puskesmas should routinely conduct large campaigns on hygiene issues.









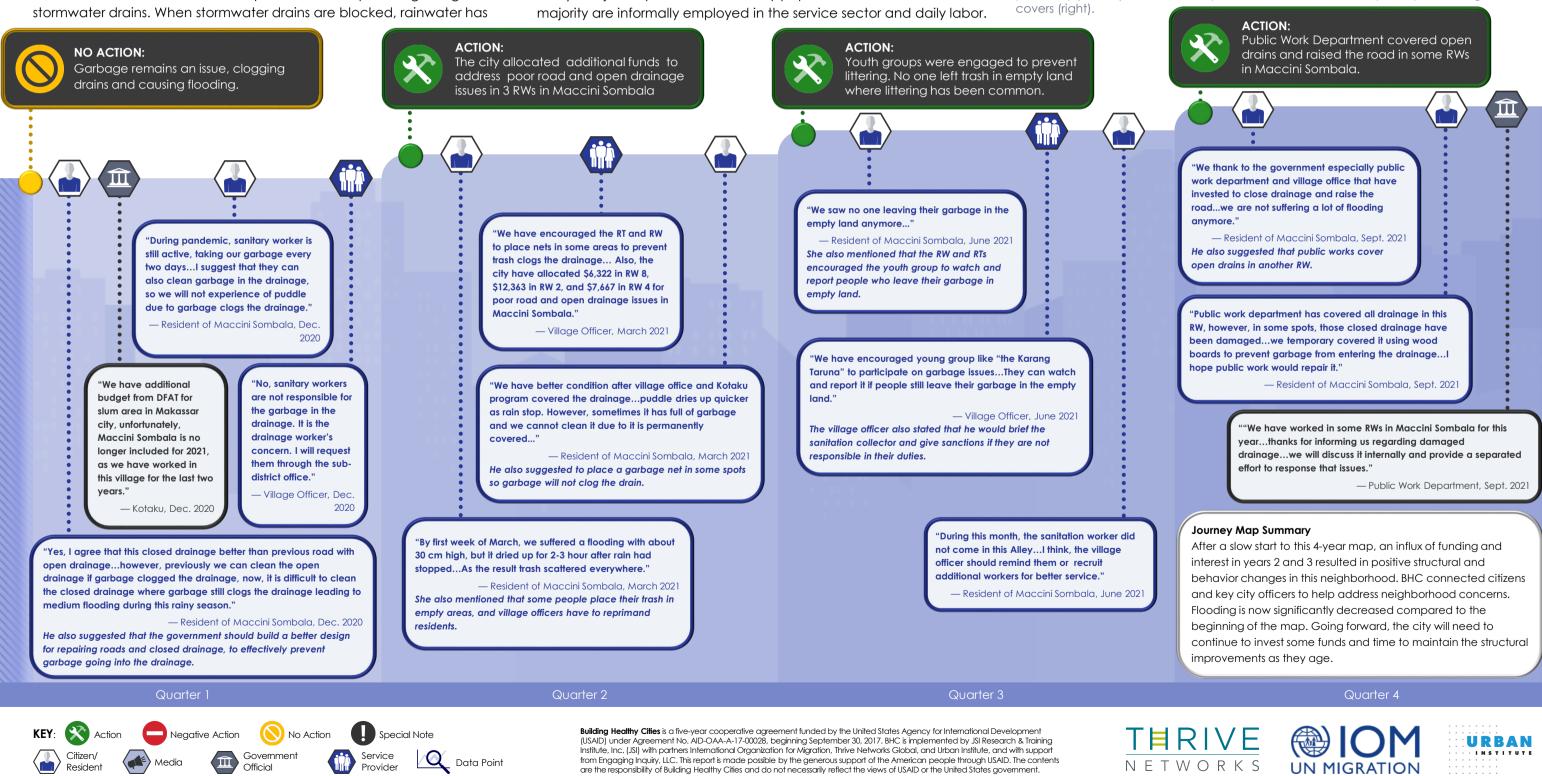
Makassar Journey Map #1 - It's All Connected

YEAR 4 Water is a multi-faceted issue in Makassar – dirty water overflows out of open drains in some neighborhoods, and this is often compounded by flooding in the rainy season. Clean water supply is hampered by outages and leaking infrastructure. The water pollution in Makassar is primarily from domestic wastewater, which is discharged to a network of open stormwater drains. Household behaviors are also a cause of overflows, as common practice is to dispose of garbage in

nowhere to go, and houses will flood with dirty water. The issue of flooding was a key topic of discussion in the BHC Health Needs Assessment focus groups - they said their biggest complaint regarding city services was with flooding. According to information received from Smart City Makassar, the city had 21 flood-prone areas and 7 critical hotspots for flooding (Technical Team Makassar Smart City 2017). This journey follows one heavily populated area, where the



In 2020 Kotaku completed work to prevent flooding, including closed drainage and a better road (left). In 2021, people stopped leaving trash in empty land where they did so previously (center), and residents placed wood boards to temporarily fix damaged drain





How Does This Story Connect to the Makassar Systems Map?

Systems Map Loop: It's All Connected

hen individuals and communities experience high levels of poverty and inequality, the level of barriers they face to participating in public programs and accessing basic infrastructure is increased. These barriers include cost, transportation, mobile service, stable housing, and a city identification card, to name a few. As a result of low utilization and support, these services are not prioritized for funding and experience increased supply and coverage issues. The deterioration of critical infrastructure and services causes increased instability and barriers to positive growth across the city. This, in turn, undermines government efforts to innovate and foster improvements to health and quality of life.

Example 1: During a focus group discussion with residents of Maccini Sombala, a designated slum area, participants mentioned that people there face significant water supply issues - water service is only provided from midnight to 6am. Many areas

of Makassar also experience difficulties in access to clean water supply which has encouraged people to use privately drilled water sources. This decreases utilization of PDAM (water supply provided by the city) which reduces the available resources to support water infrastructure improvement efforts. In addition, these private water sites cost money and are not monitored for water quality, often leading to unsafe conditions.

Example 2: Makassaris home to many local migrants, many of whom live in slum areas. They cannot access a number of service or enroll in subsidized programs because they are not identified as Makassar citizens. They experience many barriers to securing the necessary documentation (a Makassar identification card) to become registered as such. This leads to a decrease in public service utilization in Makassar, but increases demand for "creative" solutions which are often lacking in health and safety measures.

