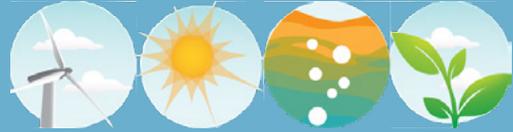


Out Think The Box

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Concept Note

MEASURE W

Homeless Services RE: Proof of Concept Street Health Pilot
Container-Based ecoSanitary (CBeS) Dry Compost Toilet
Processor System—investing in what works...

Prepared for:

Nikki Fortunado Bas

Alameda County Board of Supervisors
District 5

c/o Agnes Cho, Senior Policy Advisor

Oakland, CA

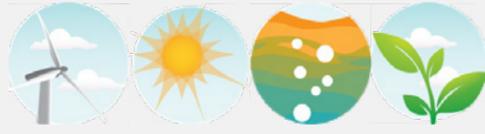
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Note Issued:

August 28, 2025

Statement of Confidentiality

This proposal and supporting materials contain confidential and proprietary business information of Out Think The Box. These materials may be printed or photocopied for use in evaluating the proposed project, but are not to be shared with other parties.



The Concept

Container-Based ecoSanitary (CBeS) Dry Compost Toilet Processor System

How are the curbside community inhabitants supposed to access dignified, accessible, safe, pathogen-free sanitation and clean water while they wait 6-, or 12-, or 24- or 36- or 48-months for enough temporary shelter or truly affordable housing to become available?

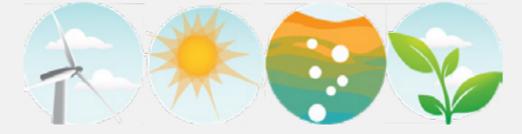
According to the 2024 Alameda County Point In Time (PIT) count, over 5,490+ citizens are camping out on the concrete or residing in their vehicles—a 24% increase since 2019. An untold number of citizenry have become unhoused since the 2024 PIT was published. Most of these unhoused have an income but cannot afford the prohibitive cost to rent housing. The 26 August 2025 [Oaklandside News](#) article reads, *Measure W funds will only prevent ~2,500 people from living on the streets by spending money to rehouse them and building new shelter beds*—clearly insufficient to address the ENTIRE need of the remaining ~3,000 people.

While these curbside communities wait for access to housing accommodations, an agile, adaptable, dignified, durable, low-cost, neighborhood-friendly, proven in performance community container-based eco-sanitary (eco-san) (CBeS) dry compost toilet system is available to **improve street health**. This CBeS system is comprised of sealable 5-gallon containers/receptacles seated inside a [Loveable Loo™](#) cabinet where collect humanure (human excreta) is

“Measure W funds will only prevent ~2,500 people from living on the streets...”

References

- ▶ IWA Blue-Green Systems Research Article about this system - <https://bit.ly/3Dc1rmb>
- ▶ Portland, OR Permit - https://www.portlandoregon.gov/bds/appeals/index.cfm?action=entry&appeal_id=21899
- ▶ YouTube VIDEO Compost Courtyard | [Go to 24:08-25:49](https://www.youtube.com/watch?v=nuWxJOUxOnU) - <https://www.youtube.com/watch?v=nuWxJOUxOnU>



The Concept

Everyday brilliance for disaster resilience...

SOME KEY BENEFITS

Low cost | Compared to local East SF Bay Area portable potty vendors who charge ~\$8.33/day/person, this CBeS offering will only cost up to \$3/day/person.

Revenue generation opportunity | For 20 persons, this system can yield a potential revenue generation opportunity of \$21,900/year. Additional opportunities include gravity fed, solar showers, \$7,300/year, and compost sales (TBD) from ~4.3 m³ (152 ft³) annual yield.

Curbside community preferences | In 2018, 19 of the 20 residents at the Here/There Encampment in Berkeley were surveyed, sharing their quality of life sanitation preferences. **Results available on request.**

THE IMPACTS

Environmentally safe | This offering does not discharge any leachate or other pollutants into the environment, reducing open defecation in the streets, improving the health of the communities to be served, and the health and well-being of neighborhoods.

Water savings | Prefabricated, unisex trailers each with standard toilet stalls, urinals, and hand washing sinks, including one ADA unisex sanitation trailer all equipped with Loveable Loo™ Toilets and managed by trained technicians can service 100 persons 24 hours/day. Ultimately scaling up to service 5,490 curbside community inhabitants, will save the municipality or city 1,455,426 gallons of water/year.

Carbon sequestration | An estimated carbon sequestration opportunity of 657.4 metric tonnes of Carbon Dioxide equivalent (CO₂, equiv) for 5,490 people.

COSTS & REVENUE GENERATION

CAPEX to cover the **cost of a pilot servicing 100-350 persons at a safe car park for the first year is \$1,863,358**; this includes cost of construction materials; supplies; service equipment; monitoring equipment; transportation;

storage; incidentals; training technicians; support staff, experts and contractors. Total projected revenue is \$518,00 for the first year with a Gross Margin of -259%. By year three, an **estimated revenue of \$6,011,550 can be generated servicing 5,490 curbside community citizens**. Estimated operating expenses of \$3,892,969, yielding a net income of \$2,228,580, and a 35% Gross Margin.

THE CHALLENGE

CalEPA and [US EPA Biosolids 503 Rule](#) are sans any clear standards or permitting pathways for Container-Based Eco-sanitary Dry Compost Toilet Processor Systems.

THE OPPORTUNITY

Along with the guidance of the Alameda County Environmental Health Department, CA Water Board, and highly seasoned eco-san agents of change, this **shovel-ready project** can be implemented safely, consistently, and at scale. Also providing empowerment to the local citizenry with job opportunities, as well as serving as a long-term strategy providing a holistic, sustainable, resilient, repeatable, robust, redundant response.

THE ASK

We invite our collaborators and stakeholders to help us:

- Update zoning and policy to support and inform policy for pilot CBeS programs.
- Develop and adopt permitting standards for CBeS.
- Recognize CBeS is safe, cost-effective, and a sustainable alternative to conventional waste water systems.
- Educate and train citizens how to safely process humanure.