Brief overview of conditions for water, sanitation and hygiene grants by the Bill & Melinda Gates Foundation

	REINVENT THE TOILET	GRAND CHALLENGES EXPLORATIONS	
	CHALLENGE ROUND 1 and 2	Create the next generation of ROUND 6	ROUND 7
START/END DATES	Round 1: April 2011 - September 2012 Round 2: September 2012 - December 2013	April 2011 - April 2012	November 2011 - October 2013
GOAL	 Create a toilet that: removes pathogens from human waste and recovers valuable resources such as energy, clean water, and nutrients. operates "off the grid" without connections to water, sewer, or electrical lines. costs less than 5 cents per user per day: the anticipated capital and operational cost for the final products (commercial units) is expected to be less than \$0.05/user/day, both for the family and neighborhood solutions¹. 	 Create sanitation technologies that: support sanitation services in contexts without centralized, waterborne sanitation are non-conventional technologies that are affordable, durable, convenient, aesthetic, effective add income or reduce costs in sanitation service delivery chain through nutrient recovery, electricity generation or industrial usage 	 Create sanitation technologies that: make sanitation services safe and sustainable for the poor in a non-networked sanitation fashion improve human waste containment and management technologies

¹ This specification was included in the call for Round 3 of the RTTC but was less clearly specified in Rounds 1 & 2.

Compiled by Naomi Radke (seecon international GmbH), 17 May 2013 For questions or comments please contact <u>Dorothee.Spuhler@seecon.ch</u>.

	 promotes sustainable and financially profitable sanitation services and businesses that operate in poor, urban settings. is a truly aspirational next- generation product that everyone will want to use — in wealthy as well as developing nations. 		
REQUIREMENTS		 Proposals must be: Different from approaches currently under investigation or employed Designed for resource-limited settings Provide an underlying rationale, a testable hypothesis, and an associated plan for how the idea would be tested or validated in phase 1 to meet the attributes outlined below: Low life-cycle cost Long-lived and easy to use/maintain Safety / backup mechanism in the case of system failure Minimal water, energy, space requirements Aesthetically appealing 	 Proposals must be: Designed for low income urban settings, formal peri-urban settings, or dense rural settings in Sub-Saharan Africa and Asia where demand for fecal sludge emptying and treatment are high Be new ideas or important improvements to existing solutions Provide an underlying rationale, a testable hypothesis, and an associated plan for how the idea would be tested or validated
AREAS CONSIDERED		 Sanitation capture and containment technologies: improvements or alternatives to pit latrines Solutions to menstrual management and safe disposal of child feces Extraction and transportation 	 Hygienic manual or mechanical emptying equipment for urban areas Sludge processing for community energy generation in urban areas

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		 innovations for hauling fecal sludge to transfer or disposal points Advancements in decentralized treatment technology for use at community, apartment block, town, and/or city scales Innovations in re-use of waste for agricultural, energy or industrial purposes at community and/or city level Other sanitation innovations 	 Appropriate sanitation solutions for flooded zones (e.g. communities that face seasonal flooding, high groundwater tables, riparian or tidal communities, floating communities, etc.) Easy cleaning, attractive and affordable pan / squatting platform, suitable for connection to an offset pit
AREAS <u>NOT</u> CONSIDERED		 Solutions that: Rely on centralized sewerage systems Rely on chemicals or other products that cause environmental sustainability issues Are incompatible with development country context 	 Solutions that: Behaviour change programming (e.g., implementation of community led total sanitation or related approaches) Boutique technologies that cannot be scaled, or technologies with capital or operating requirements that are inappropriate for serving the urban poor in developing countries
GRANT AMOUNT	No amount specified	100,000 \$ initially, opportunity of follow-on grant of up to 1 Mio \$	100,000 \$ initially, opportunity of follow-on grant of up to 1 Mio \$
FURTHER INFORMATION	http://docs.gatesfoundation.o rg/watersanitationhygiene/Do cuments/Forms/AllItems.aspx	http://www.qrandchallenges.org/Exploratio ns/Topics/WaterSanitation/Pages/Round6.a spx	http://www.grandchallenges.org/Ex plorations/Topics/WaterSanitation/ Pages/Round7.aspx