



RISE Coastal Community Resilience Challenges



RISE

Resilience Innovations

Briefing to the Joint Sub-Committee on Coastal Flooding & Adaptation

August 19th, 2019

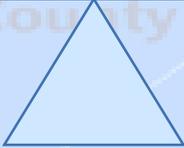
Paul Robinson, Ph.D.

Hampton Roads: A Living Lab for Resilience Innovation

**Resilience needs
& solutions**

**Economic growth
& diversification**

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2018 \$1.51M Coastal Community Resilience Challenge

Innovative proposals were evaluated against performance and costs associated with a traditional solution:

- Storage capacity: 8,360 cubic feet
- Timeframe for discharge: 48 hours
- Project costs: \$187,000
- O&M costs: \$5,240/yr



Showcase your Water Management Solution for Urban Intersections

RISE Coastal Community Resilience Challenge

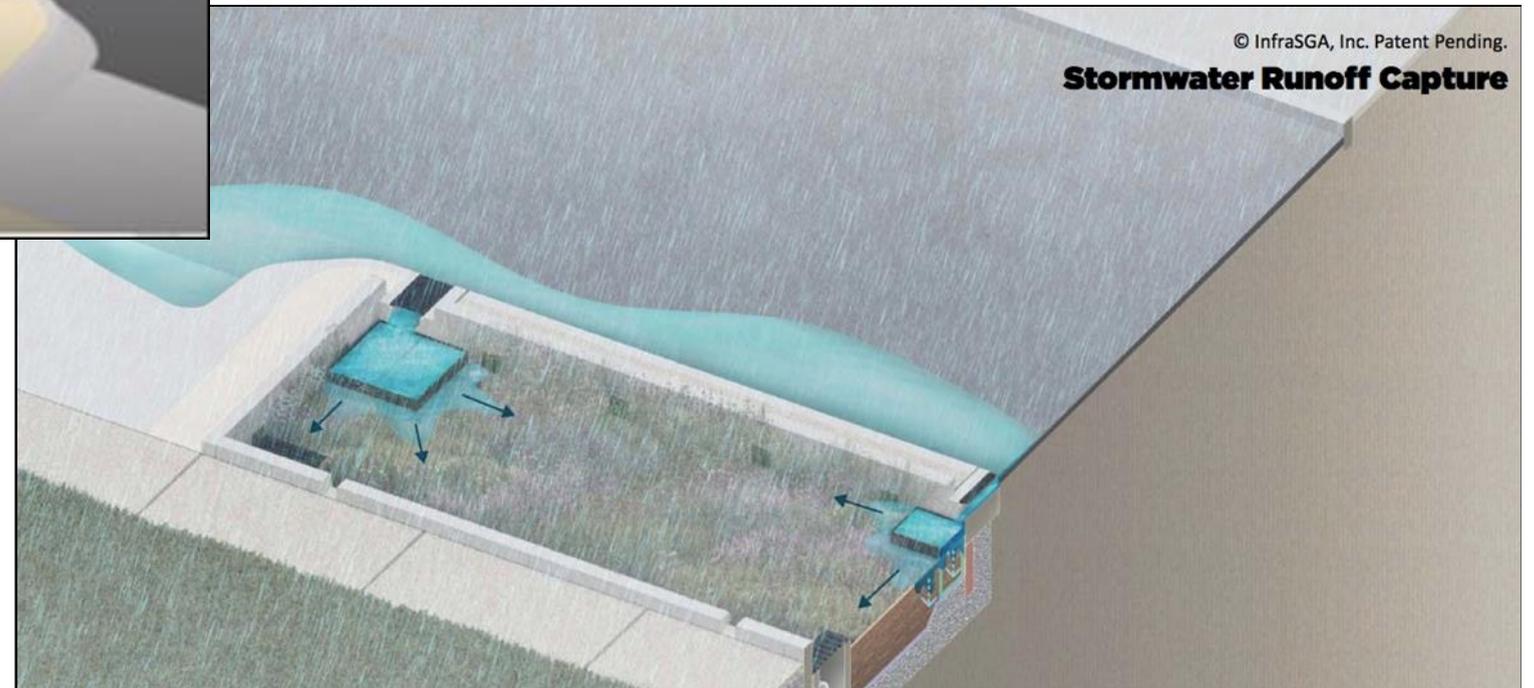
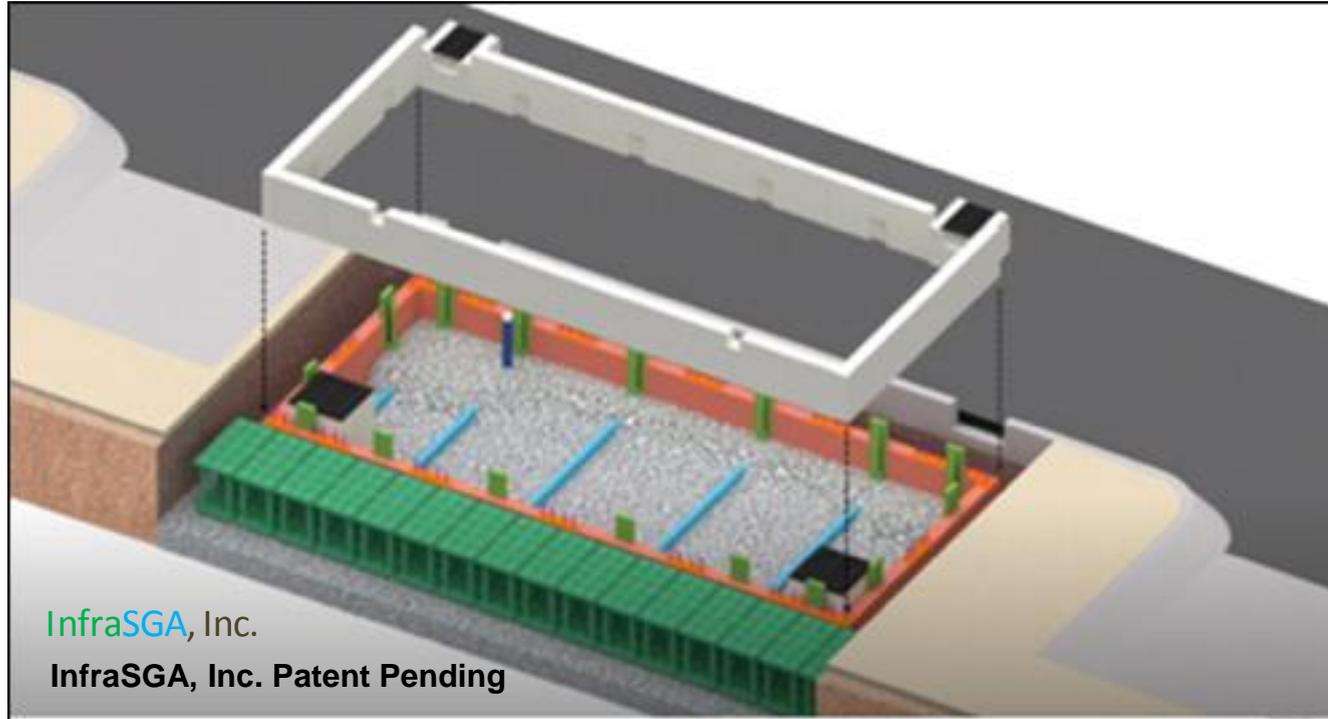
[Apply by September 30, 2018](#)

"[Norfolk, VA](#) is offering flood-prone urban intersections as a laboratory for your innovation. Submit your water management solution that would maximize stormwater storage and ecological benefits while reducing the costs.

Creative solutions that [outperform the baseline design](#) for the intersections will be considered for installation as part of Norfolk's Ohio Creek Project, winner of a \$112 million HUD National Disaster Resilience Competition Grant.



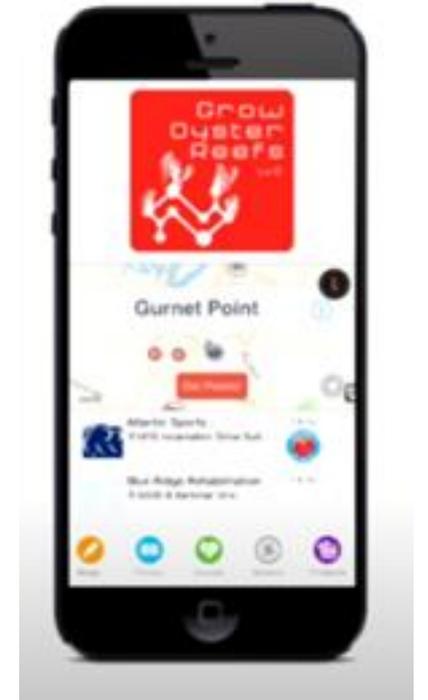
Challenge Winner: InfraSGA, Inc.



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Challenge Winner: GROW Oyster Reefs





Challenge Winner: Constructis Energy





Challenge Winner: Resilience Enterprise Solutions



Photos courtesy of Resilient Enterprise Solutions

Challenge Winner: Landscape Resilience Partnership



Challenge Winner: Building Resilience Solutions (BRS)



Photos courtesy of Building Resilience Solutions

2019 \$2M Coastal Community Resilience Challenge

- ✓ City mobility around flooding
 - ✓ First floor elevation mapping
 - ✓ Low-cost infrastructure
 - ✓ Self-cleaning outfalls and backflow preventers
 - ✓ First floor elevation mapping
 - ✓ Affordable mitigations for homeowners





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