NEWIN
NEW ENGLAND WATER INNOVATION NETWORK

New England Water Innovation Network

www.newengland-win.org

Water is Essential

Safe, Abundant and Affordable Water for All

Water is our world's most pervasive and essential resource.

Unfortunately, many global trends are worsening water scarcity, quality and affordability, and in doing so, threaten security, health, environments and economies globally.

Today's challenges cannot be met with yesterday's solutions.

To make an impact, and realize safe, abundant and affordable water for all, we must broaden and accelerate innovation in the Water Industry.

NEWIN's mission is make an impact on the global water challenges by working to broaden and accelerate innovation to market.

MASSACHUSETTS CLEAN ENERGY CENTER

Patrick Administration Announces Formation of Network to Spur Water Innovation in Massachusetts and New England

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Jan 28, 2014 –

Patrick Administration Announces Formation of Network to Spur Water Innovation in Massachusetts and New England

MassCEC commits to matching $100,000 in private investment to help launch network of water industry leaders

BOSTON – January 27, 2014 – The Patrick Administration today announced the formation of the New England Water Innovation Network (NEWIN), which will build upon the successes the Commonwealth and companies have had in creating more efficient and cost-effective water supply and wastewater treatment solutions to drive demand for Massachusetts-made products and services.

"In Massachusetts, we are marrying our brainpower with our natural resources in order to position ourselves as the home away from home for the water innovation industry," said Governor Patrick. "The New England Water Innovation Network will be a voice for the industry and help Massachusetts and New England stake our claim to global leadership in water innovation."

Energy and Environmental Affairs Secretary Rick Sullivan made the announcement as part of the New England Water Environment Association's (NEWEA) annual confer

Catalyze
Water Industry Collaboration

Partnerships & Best Practice Sharing
Business Development
Technology to Innovation
Advocacy, Outreach & Communication

Drive Local Innovation
for Global Impact

Promote regional, national and global collaboration and partnerships to make an impact on the world's pressing water challenges.

World-class Water Industry Institutions

Technology

Academia

Engineering

Emerging Technologies & New Companies

Support

Value for NEWIN Members:

"Solution Seekers"

For Industrial Water Users and Established Industrial Providers

- Access to cutting edge research, new companies, solutions and talent
- Global partnerships
- Discount services
- NEWIN marketing and advertisement

For Public Water Utilities

"Solution Providers"

For New Technology Companies

- Industry needs identification
- Business development
- Research collaboration
- Access to 'Test Bed Network'
- Professor and student exchanges; internships, student hiring
- Support in grant submissions

For Academic Partners

"Ecosystem Enablers"

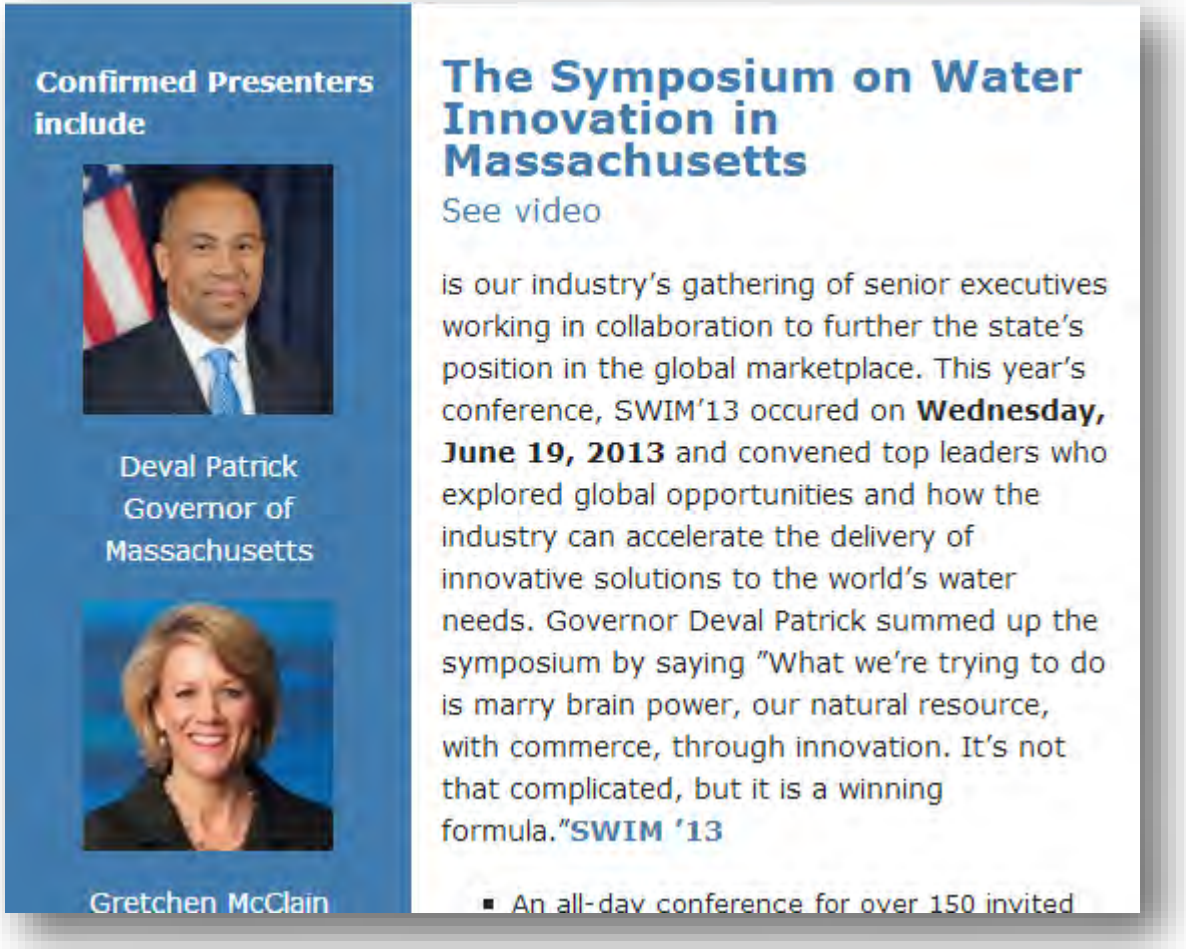
For Private Equity and Foundations

- Business development
- Insight into market trends
- Domain knowledge and deal flow
- Industry needs identification
- Focused opportunities for impact investing and risk management

For Professional Service Providers

Value for NEWIN Members:

Case Example: Symposium on Water Innovation in Massachusetts (SWIM)



- SWIM convenes 200 of the top regional water industry leaders from Industry, Academia, Finance and Government
- SWIM participants workshop critical issues for accelerating innovation in the water industry, and network with
- A SWIM highlight is the Headwaters Innovation Prize – which is an award for the best business plan for Water Innovation. The 2013 Winner, Drinkwell, is focused on delivering clean water to Indian Villagers using a combination of novel technology and a micro-finance business model.

Leadership Conference November 2014

Technical Innovations need to:

- Protect the public health
- Be proven
- Work with regulations
- Anticipate regulatory changes
- Be cost effective
- Be reliable and able to maintain long-term
- Be accepted by the public

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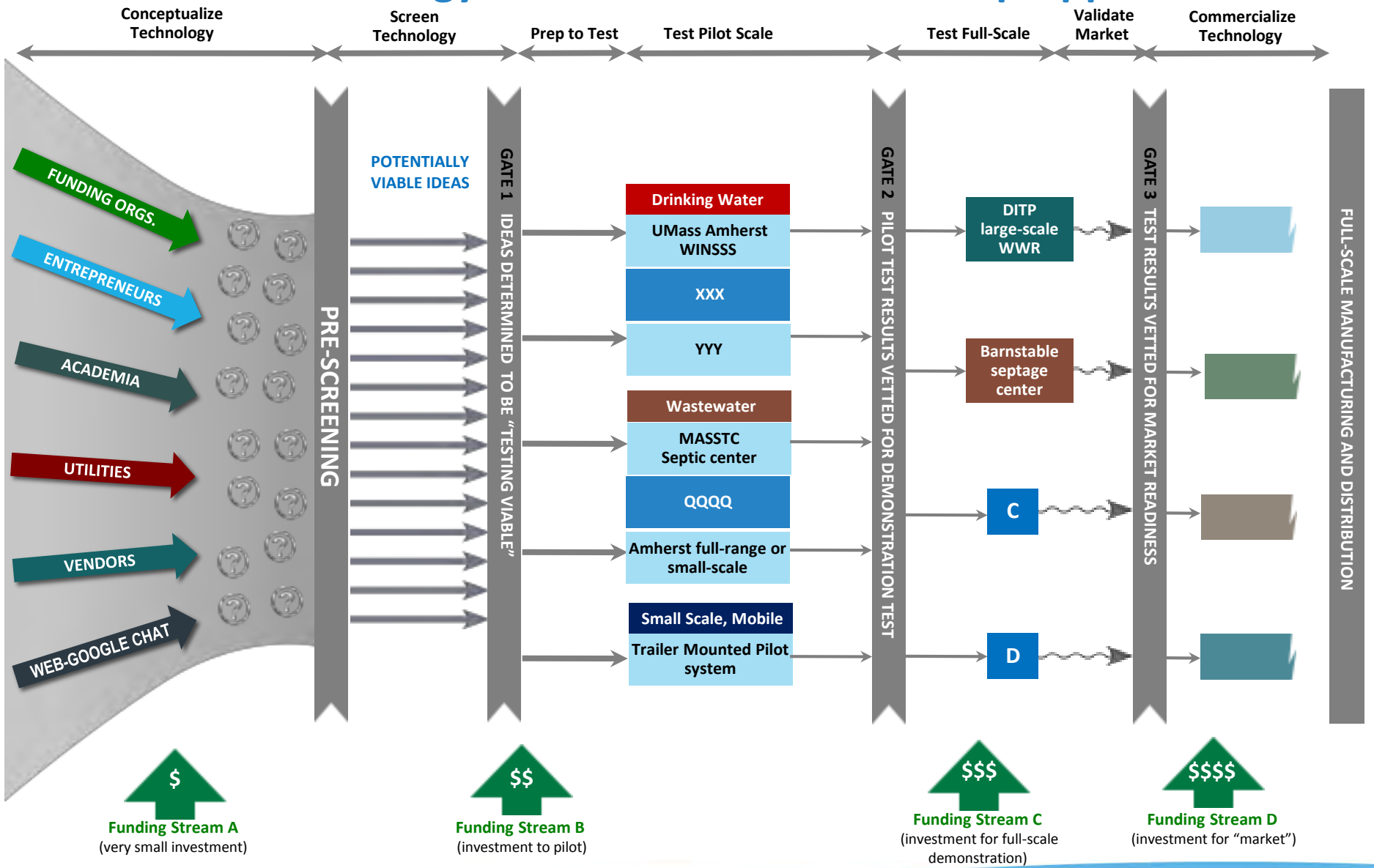
New England Water Innovation Network

Test Exchange

www.newengland-win.org

Technology to Innovation: A Three Step Approach



Next Slide

Pre-screening

Return to Diagram

Technology is vetted by NEWIN using template.

- Technical viability
- Market potential
- Order of magnitude cost to pilot test

Gate 1: “Testing viable” Determination

Return to Diagram

Company is interviewed by NEWIN using template.

- Suitability for piloting (readiness)
- Best location
- Piloting cost and schedule
- Testing protocol, metrics and criteria for success

Gate 2: Pilot Results Vetted for Full-Scale

Return to Diagram

Testing data is analyzed and technology is screened for demonstration.

- Validation of technical viability
- Metrics and criteria compared
- Market potential confirmed
- Estimate location, protocol, schedule, cost to demonstration test

Gate 3: Demonstration Results Evaluated, Market Readiness Determined

Return to Diagram

Testing data is analyzed and technology is screened for demonstration.

- Validation of technical viability
- Metrics and criteria compared
- Market potential confirmed
- Determine market readiness- technical readiness, commercial readiness

Water Innovation Network for Small Sustainable Systems WINSSS

Return to Diagram

Description:

National center for small drinking water systems funded by USEPA.
Four research programs:

- Implementation of innovative technologies that are specifically designed for, or particularly apt for, small water systems.
- Non-treatment innovations with focus on overcoming regulatory barriers, developing and implementing software for improved asset management, and creating distributed sensing networks for small water systems.
- Assessment and development of treatment processes for better control of hazardous disinfection by-products (DBPs) in small water systems.
- Development and implementation of improved biological management of nitrogenous contaminants the negatively impact human health and water quality in small water systems.

Parent Organization, Location, Contact:

UMass Amherst, Amherst, Massachusetts
www.umass.edu/winsss

Water Type, Flows, :

Drinking Water

Services Offered/Equipment/Capabilities:

MASSTC Septic Center

Return to Diagram

Description:

Water Type, Flows, :

Septic Wastewater,

Services Offered/Equipment/Capabilities:

Parent Organization, Location, Contact:

Amherst Full-Range or Small-Scale

Return to Diagram

Description:	**Water Type, Flows, :**
	Services Offered/Equipment/Capabilities:
Parent Organization, Location, Contact:	

Trailer Mounted Pilot System

Return to Diagram

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Parent Organization, Location, Contact:

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Water Type, Flows, :

Services Offered/Equipment/Capabilities:

In the News

Oasys Water Named to the 2014 Global Cleantech 100

List Recognizes the Top Private Companies in Clean Techno

CAMBRIAN INNOVATION

ABOUT SOLUTIONS RESOU

Cambrian Innovation Selected as 2015 Technology Pioneer by World Economic Forum

Award validates innovative bioelectric solution addressing global water crisis

Feature

Innovation Nation: The Top 12 Water Technology Hot Spots In America

By Laura Martin, associate editor, *Water Online*

MIT News

ON CAMPUS AND AROUND THE WORLD

Browse or Search

MIT alumnus Mohammed Abdul Latif Jameel gives major gift to solve urgent challenges in world food and water security

Professor John Lienhard will lead the new laboratory.

UMASS AMHERST

UMASS Amherst won $4MM grant to develop a Water Innovation Network for Sustainable Small Systems

Desalitech

TOYO ENGINEERING

NEWIN and the MassCEC helped local start-up Desalitech ink a global alliance with Japan's $6B/yr Toyo Engineering

Members of NEWIN and MassCEC meeting with Singapore PUB Leadership

June 12, 2014

Become a NEWIN Member or Make a Donation

NEWIN Membership is available to organizations and individuals who believe in the power of innovation to help solve our global water challenges.

To learn more about NEWIN, to inquire about becoming a NEWIN member, or to make a donation, please send inquiries to:

contact@newengland-win.org