

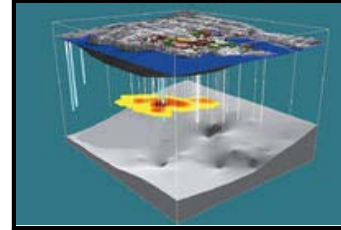
Environmental Security Technology Certification Program (ESTCP) Overview

Tim Tetreault
ESTCP Energy and Water Program Manager
Nov 18, 2016



About ESTCP

- Established in 1995 to:
 - ◆ Improve DoD's environmental performance
 - ◆ Reduce costs
 - ◆ Enhance and sustain mission capabilities
- Demonstration & validation focus
- Promote Implementation
- Energy & Water is one of five ESTCP Program Areas
- Issue annual solicitations.



Energy & Water

Environmental
Restoration

Resource
Conservation &
Climate Change

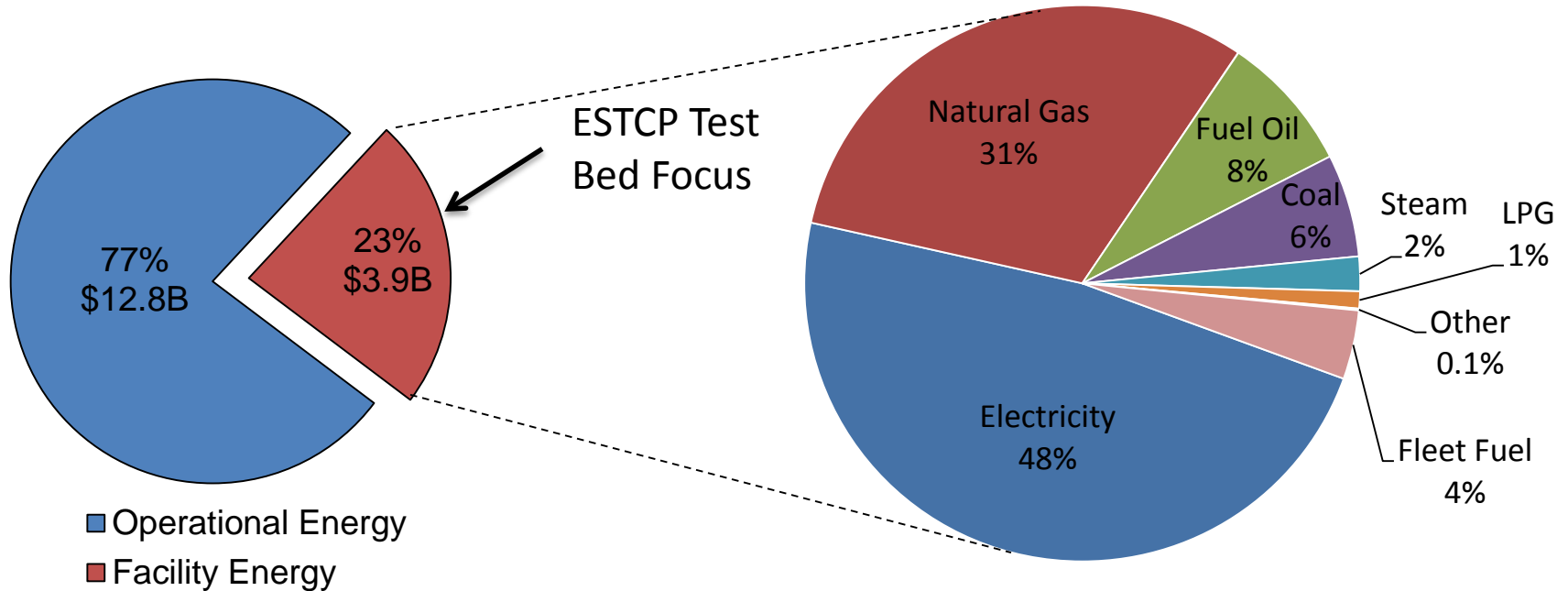
Weapons
Systems &
Platforms

Munitions
Response

DoD Energy Use – ESTCP Focus

DoD Facility &
Operational Energy
Cost: \$16.7B (FY15)

Military Installation
Energy Consumption

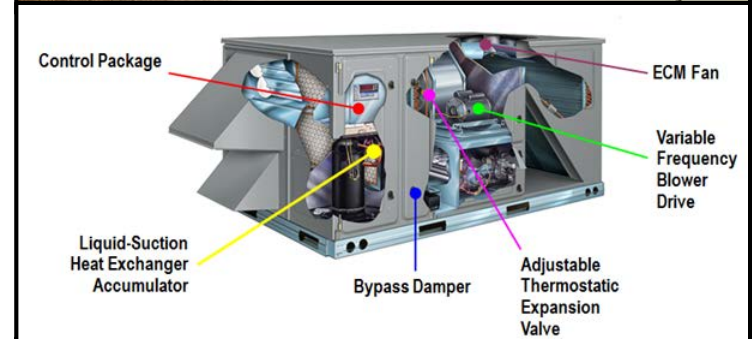


Energy and Water

- Smart and secure installation energy management
 - ◆ Microgrids
 - ◆ Energy storage
 - ◆ Ancillary service markets

- Efficient integrated buildings and components
 - ◆ Design, retrofit, operate
 - ◆ Enterprise optimized investment
 - ◆ Advanced components
 - ◆ Intelligent building management
 - ◆ Non-invasive energy audits

- Distributed generation
 - ◆ Cost effective
 - ◆ On-site
 - ◆ Emphasis on renewables



A Successful Project Should:

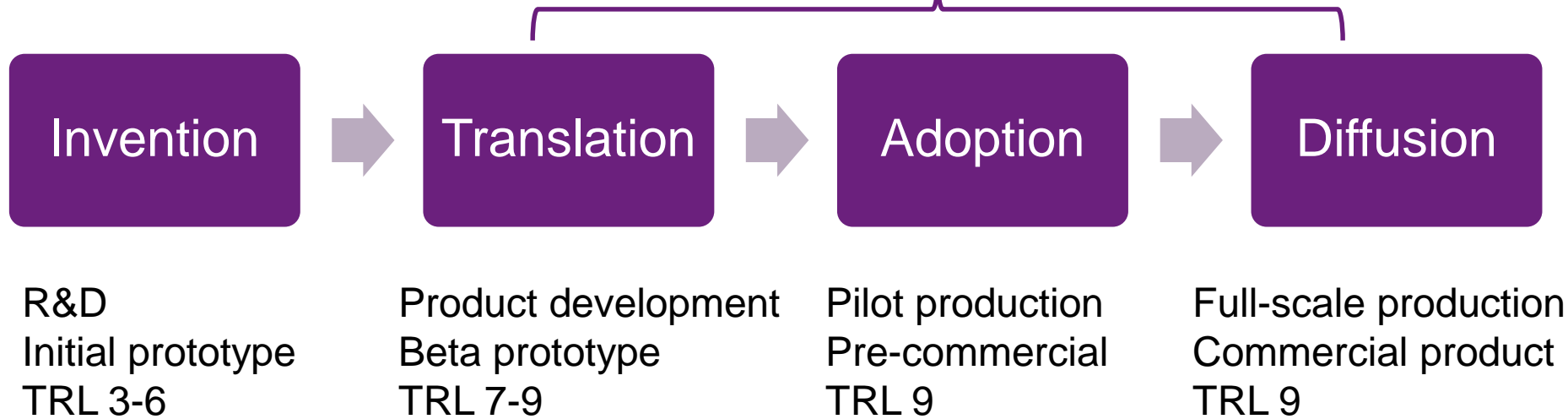
- Objectively evaluate the cost and performance of the demonstrated technology; and
- Contribute to DoD's understanding of facility energy technologies and their applications; and
- Accelerate broad deployment of the technology

ESTCP Technology Consideration

- Relevance to solicitation topic
- Potential impact
- Applicability to military installations
- Technology maturity
- Technology transfer potential
- Cost

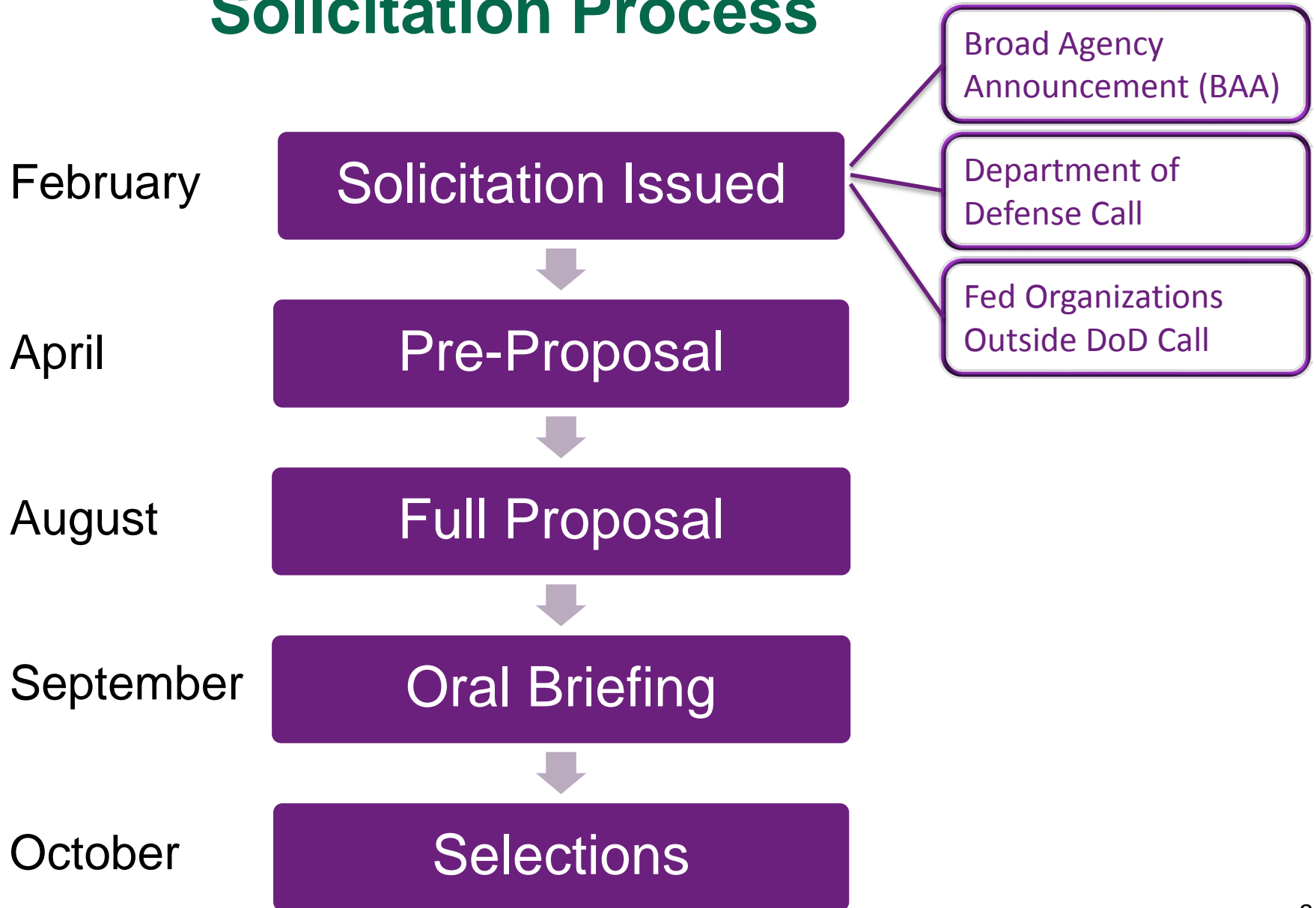
Energy Technology Maturity

ESTCP Investments



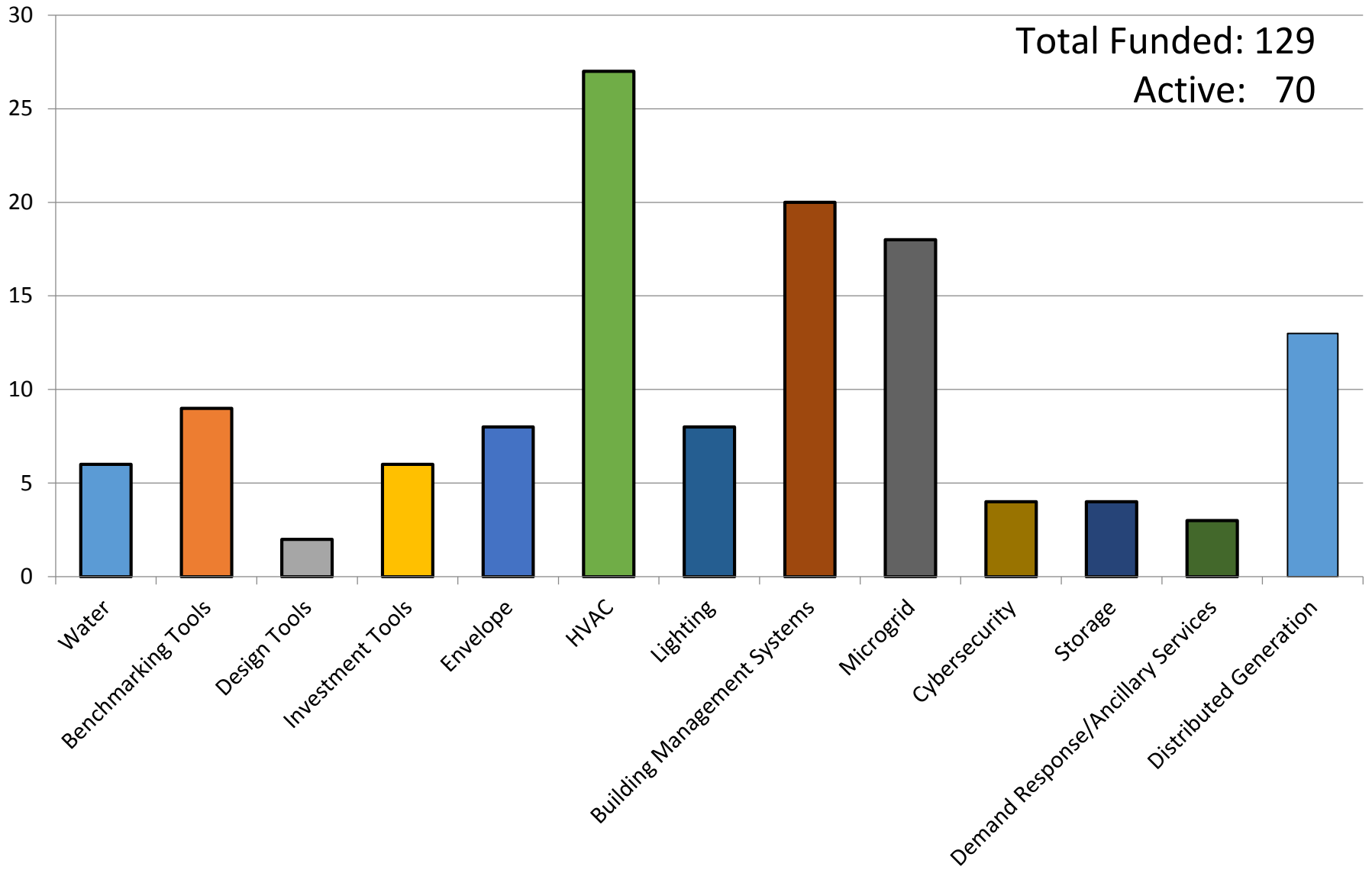
	Translation	Adoption	Diffusion
Performance & Cost	Value proposition or price is unclear or ill defined.	Value and risks understood by specialist or for some applications. Limited or no independent validation.	Risks and value understood for most applications. Education of broader community underway.
Industry, supply chain, & support	Developers required for demonstration. Building industry not engaged.	Limited commercial availability. Support and distribution partnerships not well developed.	Technology is available and sustainable but not usually specified.

Solicitation Process



Active and Completed EW Projects - Project Count

Total Funded: 129
Active: 70



Website: www.serdp-estcp.org



DoD's Environmental Research Programs

Advanced search



[View All Social Media](#)

Home	About SERDP and ESTCP	Program Areas	News and Events	Featured Initiatives	Tools and Training	Funding Opportunities	Investigator Resources
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SERDP and ESTCP harness the latest science and technology to develop and demonstrate innovative, cost-effective, and sustainable solutions to meet DoD's environmental challenges.

SERDP Solicitations

Investing in environmental research and development. **FY 2017 solicitations were released October 29, 2015.**

- ◆ **Core:** Pre-proposals were due Jan 7, 2016.
- ◆ **SEED:** Proposals were due March 8, 2016.

ESTCP Solicitations

Demonstrating innovative environmental technologies. **FY 2017 solicitations were released February 9, 2016.**



Energy Exchange

Federal Sustainability for the Next Decade
U.S. Department of Energy

← **ESTCP Program at the 2016 Energy Exchange**

- Four-Part Approach to Technology Transfer
- Impacts of Sonar on Marine Mammals
- DoD's Force of the Future
- Acoustic Classification Systems
- Cold Spray

Upcoming Events

- | | |
|------------------|---|
| Jul 15 | SERDP and ESTCP Quarterly Progress Reports (QPR) Due (Third Quarter) |
| Sep 13-15 | SERDP Scientific Advisory Board (SAB) Meeting |
| Oct 15 | SERDP and ESTCP Quarterly Progress Reports (QPR) Due (Fourth Quarter) |
| Oct 18-20 | SERDP Scientific Advisory Board (SAB) Meeting |

Webinar Series

Promoting the transfer of innovative, cost-effective and sustainable solutions.

[View Webinar Schedule](#)

Tools and Training

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Contact

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