



Engineering Research Centers

Gen-4 ERC:

Pre-recorded Program Overview

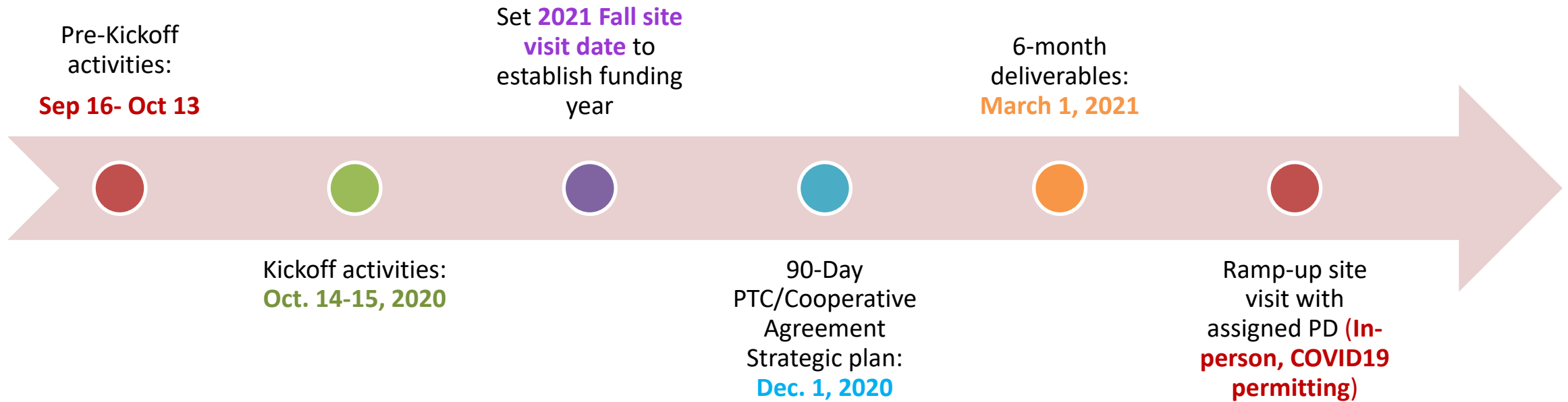
NSF 19-503

Kickoff Meeting
October 14-15, 2020

Deborah Jackson, ENG/ERC Program Director



Year-1 Milestone Schedule





Gen-4 ERC



NSF Working Group Recommendations (Considering NASEM Report)

Convergent Research and Innovation through Inclusive Partnerships and Workforce Development

Emphasizes **societal impact, convergence, stakeholder community, and team formation**

Demonstrable integration of F.C.

Increase award size to max \$6M/year

Planning grant opportunity to enhance convergent team formation



Kickoff Orientation: Three objectives

1. Firm up new concepts
 - Convergence => to win a Gen 4 ERC award, you had to master this concept
 - Societal impact => metrics are easier if one uses logic models
 - Team formation => effective teaming and creating a culture of inclusion have strong overlapping Venn diagrams
 - Stakeholder community => identifying and engaging learning curve
2. Explain Post Award Oversight Process
3. Help you prepare your 90-day deliverables and 6 month deliverables



Pre-Recorded Presentation Index

ERC Foundational components:

- Research
- Engineering Workforce Development
- Innovation Ecosystem
- Diversity and Culture of Inclusion

Logic Model and Evaluation Plan

Infrastructure Management

Center Level Risk Management

Post Award Oversight



90-day Deliverables

1. Strategic Plan and Logic Model
2. Evaluation and Assessment plan
3. Center Governance Model and Organizational Chart
4. Innovation Ecosystem Membership Agreement
5. Intellectual Property Policy
6. Establishment of charters for boards, councils, and committees
7. Data Management Plan
8. Center-Level Risk Management Plan



Presentations Assisting Prep of 90- Day Deliverables

ERC Foundational components:

- Research
- Engineering Workforce Development
- Innovation Ecosystem
 - SPI; IP; Member & Institution Agreements
- Diversity and Culture of Inclusion

Logic Model and Evaluation Plan

- Strategic Plan & Logic Model
- Evaluation and assessment plan

Infrastructure and Management

- Center Governance Model and Org Chart
- Data management plan

Center Level Risk management

Post Award Oversight



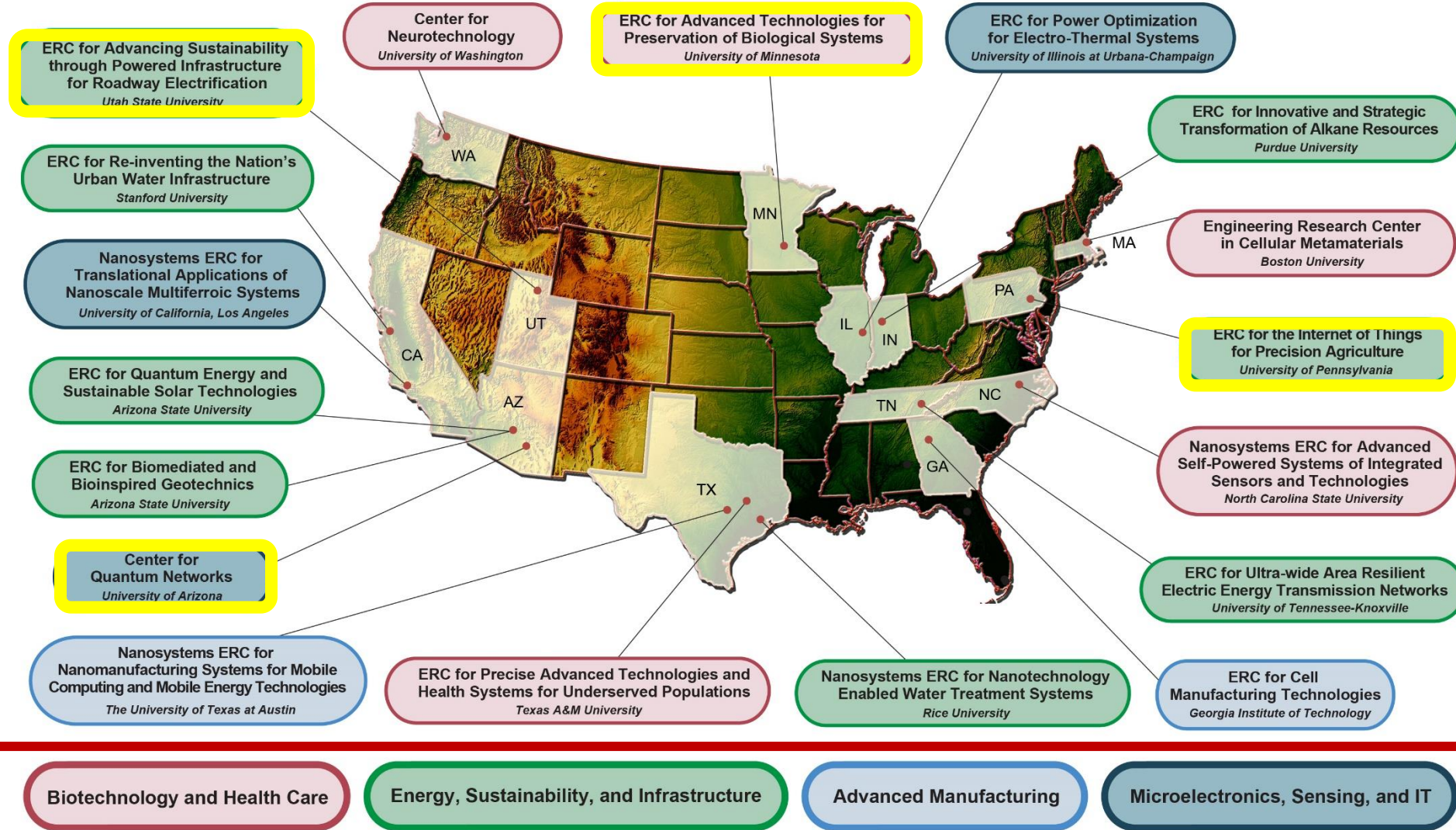
6-months Requirements

Status report that:

- All ERC Leadership team positions are filled. Time & Effort consistent with their ERC team roles.
- Projects have started with planned synergistic coordination.
- All technology elements (labs, equipment, testbeds) across ERC institutions are in place.



NSF's FY 2020 Engineering Research Centers (Lead institutions)



Note: All centers are multi-university partnerships; university shown is lead institution.