

NIST-on-a-Chip Technology Transfer Pilot

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PILOT AN APPROACH THAT ACCELERATES THE COMMERCIALIZATION OF NIST TECHNOLOGIES



KEYS TO OUR PLAN



TEAM: Engage personnel from across the organization with varying skillsets and expertise



APPROACH: Utilize portfolio management to coordinate execution and drive results

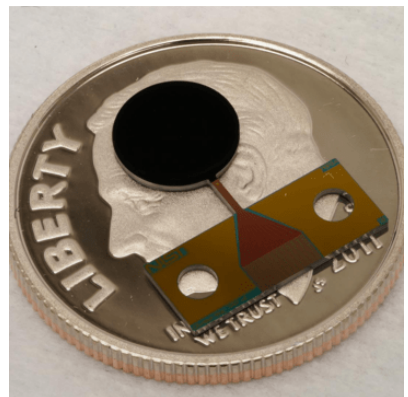
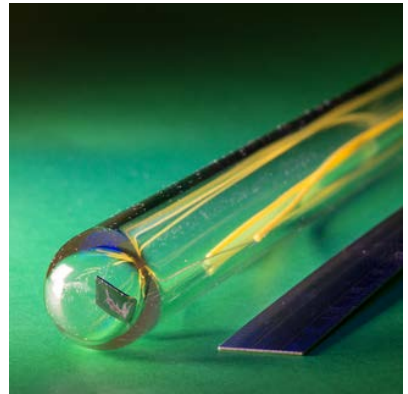


CONTINUOUS IMPROVEMENT: Review our progress and make adjustments as needed

NIST-on-a-Chip Pilot Program Goal



Develop and implement a **PORTFOLIO MANAGEMENT APPROACH** to NIST-on-a-Chip that integrates all pieces of the program, **BEGINNING WITH RESEARCH AND ENDING WITH A COMMERCIALIZED PRODUCT** that enables the delivery of NIST-on-a-Chip devices first to market and **POSITIONING NIST TO INFLUENCE THE GLOBAL MARKETPLACE** for metrology applications and to disseminate the NIST Quantum SI.



Why NIST-on-a-Chip



It's Important to NIST

- It is a strategic priority area for NIST
- It is multidisciplinary and involves multiple parts of the organization

Strategic Fit



A Sense of Urgency

- There are already mature products and others on their way
- Multiple partners are actively engaging NIST

Timing



Flagship for NIST

- Impact on multiple industry sectors
- Potential to revolutionize measurement services

Impact

NIST-on-a-Chip Pilot Program Objectives



MOVING TOWARDS AN INTENTIONAL APPROACH

HOW: Use a portfolio management approach

WHAT: The commercialization of NIST-on-a-chip technologies

WHY: Position NIST to influence the global marketplace for metrology applications

NIST-on-a-Chip Pilot Program Objectives



- 1 CURRENT STATE** Review our NIST-on-a-Chip efforts to identify where we are today and compare that to where industry needs us to be
- 2 PARTNERSHIPS** Be intentional in our partnerships by strategically choosing how we partner and with whom we form partnerships
- 3 MARKETING** Create mechanisms to communicate the value of NIST-on-a-Chip to industry
- 4 PROCESS** Make it easier for potential partners to work with NIST
- 5 SUSTAINABILITY** Review efforts to determine what worked well and should be applied to other areas and what needs to be changed

Achieving our Objectives



1

Create separate projects each with a unique scopes

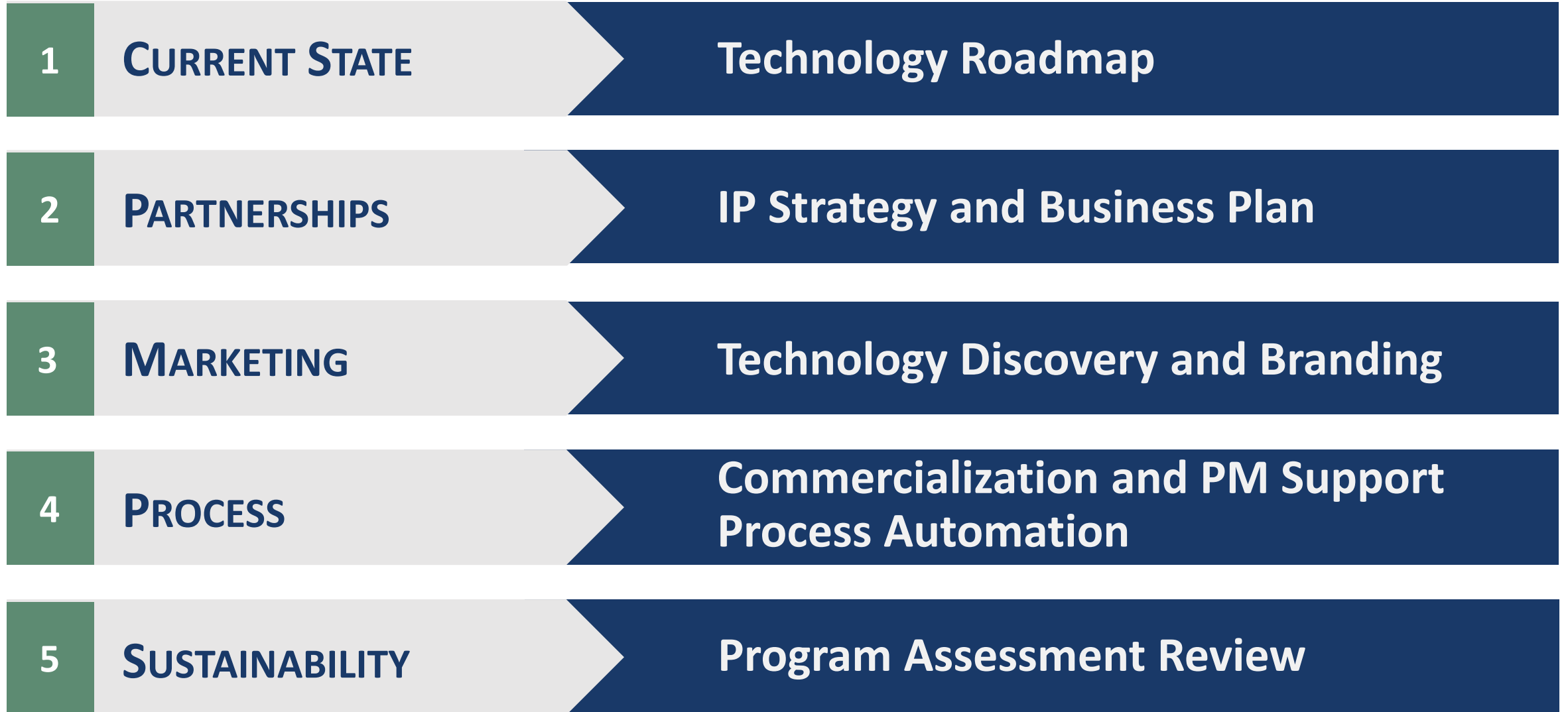
2

Identify objectives, dependencies, and success criteria for each project

3

Coordinate across project teams to ensure mutual success

Achieving our Objectives



The Next Year



Session III: NIST-on-a-Chip Closing Remarks

Jim Olthoff

Acting Associate Director for Laboratory Programs

NIST-on-a-Chip Takeaways



research



resources



commercialization



continuous
improvement

1. NIST-on-a-Chip will provide NIST a leadership role in disseminating the SI through technology transfer
2. NIST-on-a-chip will serve as a test bed for overall technology transfer approach
3. We want to learn from others, experiment, and continuously improve



QUESTIONS?