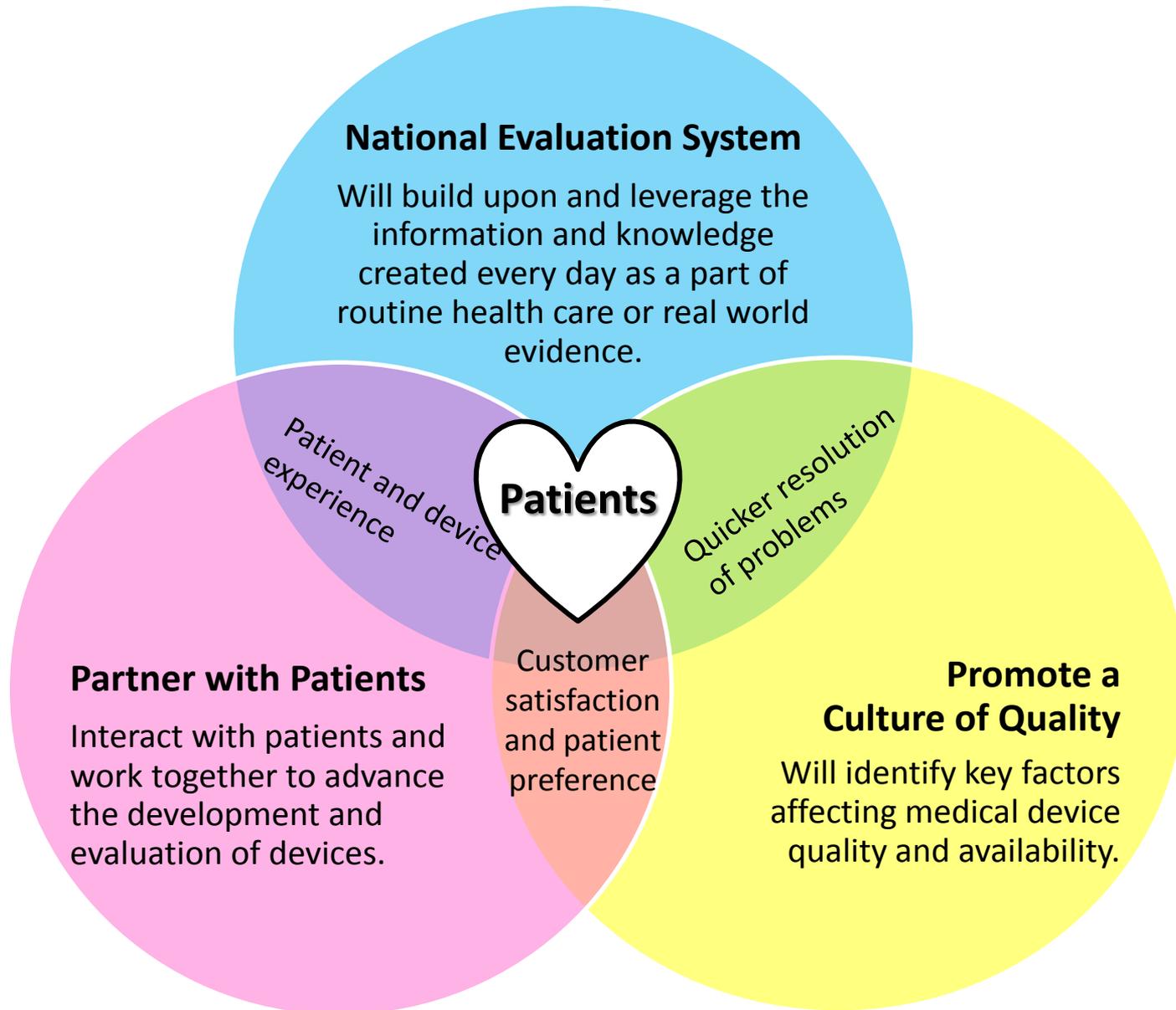


# Update from the Office of Compliance: Priorities and Strategies for 2017

Robin W. Newman MSN EdD  
Director, Office of Compliance  
Center for Devices and Radiological Health  
U.S. Food and Drug Administration, DHHS

# CDRH Strategic Priorities





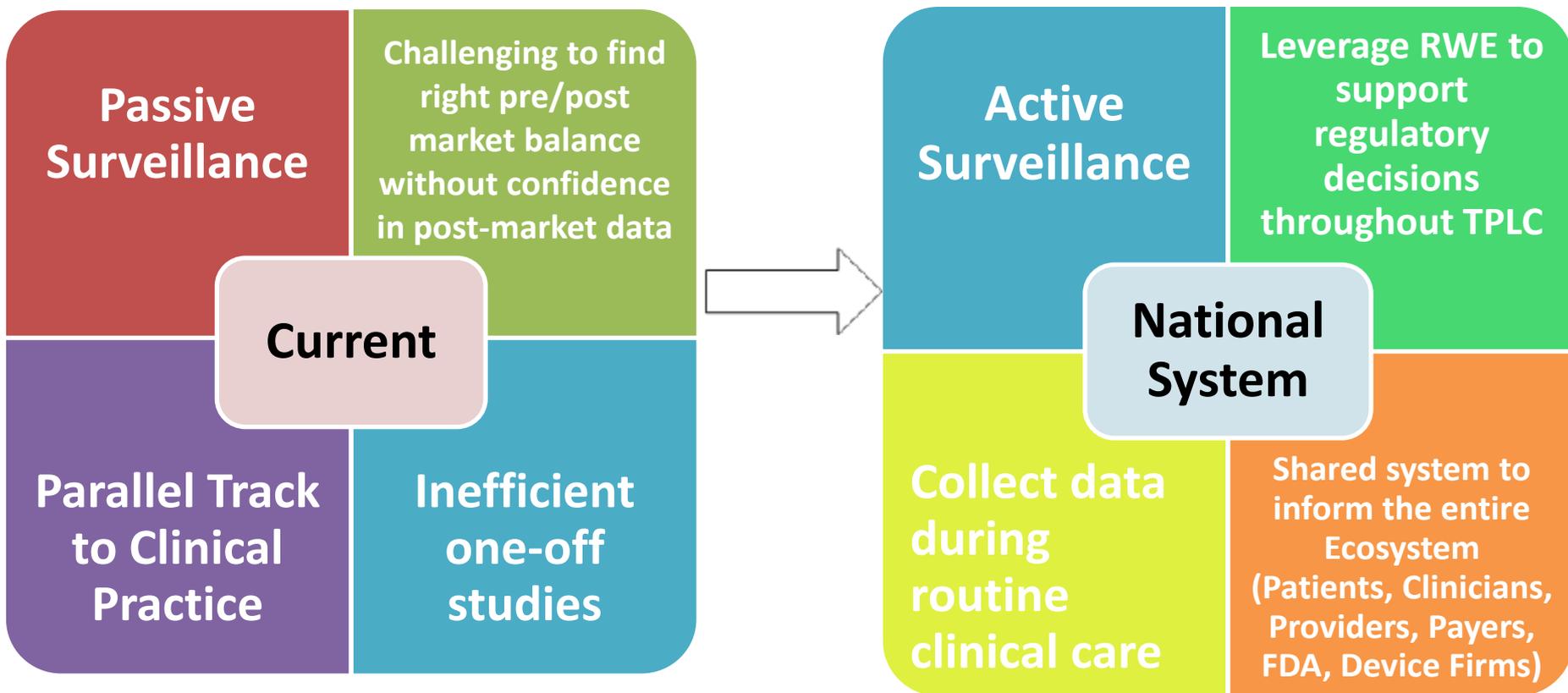
# 2016-17 Office of Compliance Top Priorities

- National Evaluation System
- Partnering with Patients
  - Benefit Risk
- Promoting a Culture of Quality
  - Quality in the Office
  - Case for Quality
- On the Horizon
  - Program Alignment
  - Total Product Life Cycle

# National Evaluation System



# Medical Device Evaluation Paradigm Shift: Today and Tomorrow



# FDA's Vision for a National System

*For the Ecosystem, Governed by the Ecosystem*

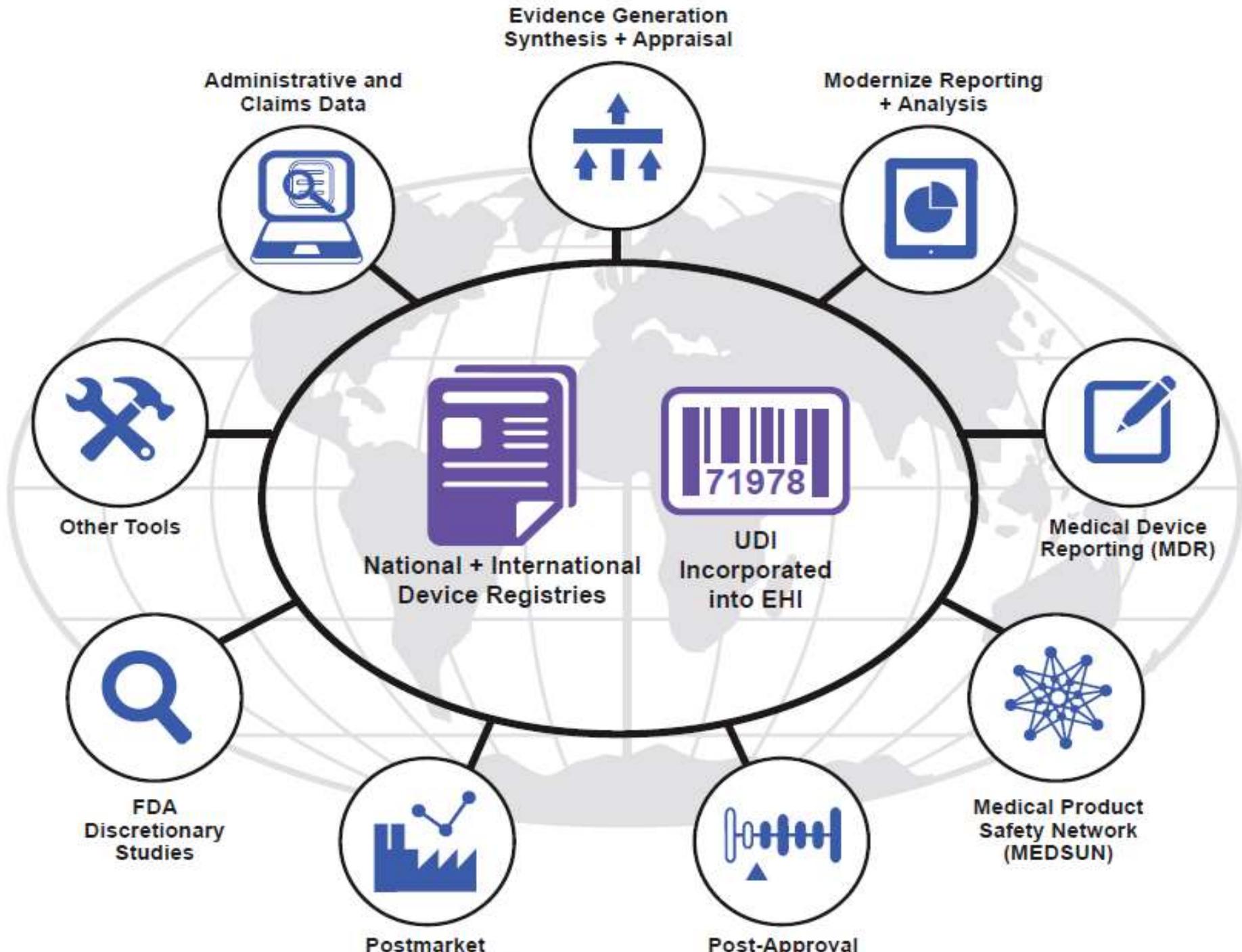
- Develops and communicates an evolving understanding of device benefits and risks throughout their marketed life using high-quality, linked electronic health information
- Identifies potential safety signals in near real-time from a variety of privacy-protected data sources serving as a safety net
- Reduces burdens and costs of medical device postmarket surveillance
- Facilitates clearance and approval of new devices or new uses of existing devices



# Real-world evidence

**Leverage and employ evidence synthesis across multiple domains in regulatory decision making:**

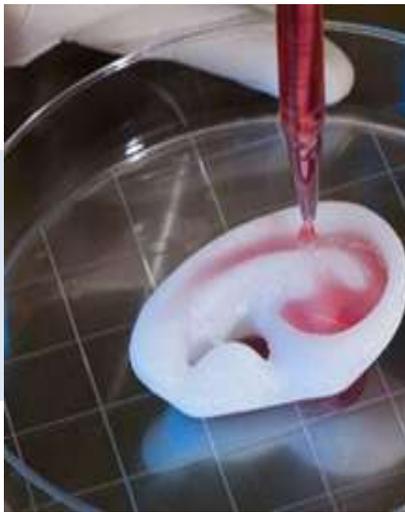
- Use disparate observational data sources
- Develop analytic methods



# Partnering with Patients



# Patients are at the Heart of All We Do



## **CDRH Vision:**

Patients in the U.S. have access to high-quality, safe, and effective medical devices of public health importance, first in the world.

# Investing in Culture

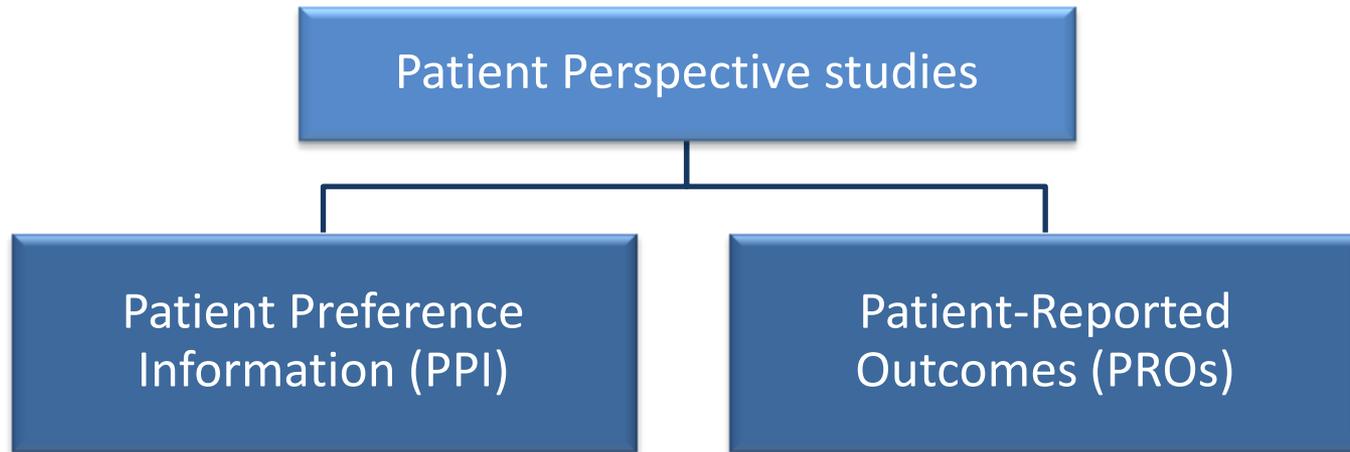


## Partner with Patients

*We interact with patients as partners and work together to advance the development and evaluation of innovative devices, and monitor the performance of marketed devices.*

1. Promote a culture of meaningful patient engagement by facilitating CDRH interaction with patients.
2. Increase use and transparency of patient input as evidence in our decision-making.

# Patient Perspective Studies



Patient perspective on trade-offs of benefits and risks

Health status reported from patient without involvement of physician

# Best Practices for Patient Preference Studies

Well-designed and conducted patient preference studies can:

- Provide valid scientific evidence regarding patients’ risk tolerance and perspective on benefit.
- Inform FDA’s evaluation of a device’s benefit-risk profile during the PMA, HDE application, and *de novo* request review processes

All about Patients	Good Study Design	Good Conduct and Analysis
Patient centeredness	Effective benefit-risk communication	Logical soundness
Capturing heterogeneous patient preferences	Minimal cognitive bias	Robustness of result analysis
Comprehension by study participants	Relevance	



# Organization Adoption of Patient Science

## **Guidance:**

- *“Patient Preference Information – Voluntary Submission, Review in PMAs, HDE Applications, and De Novo Requests, and Inclusion in Decision Summaries and Device Labeling”*

## **Staff Training:**

- PRO and PPI science
- PPI Guidance

## **Research:**

- Collaborative PPI research in obesity, neurology, oncology, pediatrics, women’s health
- PRO research in traumatic brain injury, urology, and women’s health
- Novel complimentary PPI/PRO research in ophthalmics and prosthetics

# Patient Engagement

## Goal:

Promote a culture of meaningful patient engagement by facilitating CDRH interaction with patients.

**December 2016**

**50%** of CDRH employees will interact with patients as part of their job duties.



Establish **one or more new mechanisms** for employees to obtain patient input on key pre- and postmarket issues and foster participation of **10 groups** to participate.

**December 2017**

**90%** of CDRH employees will interact with patients as part of their job duties.



Foster participation of at least 20 patient groups to participate in these mechanisms.

# Patient Engagement: 2016 in Numbers

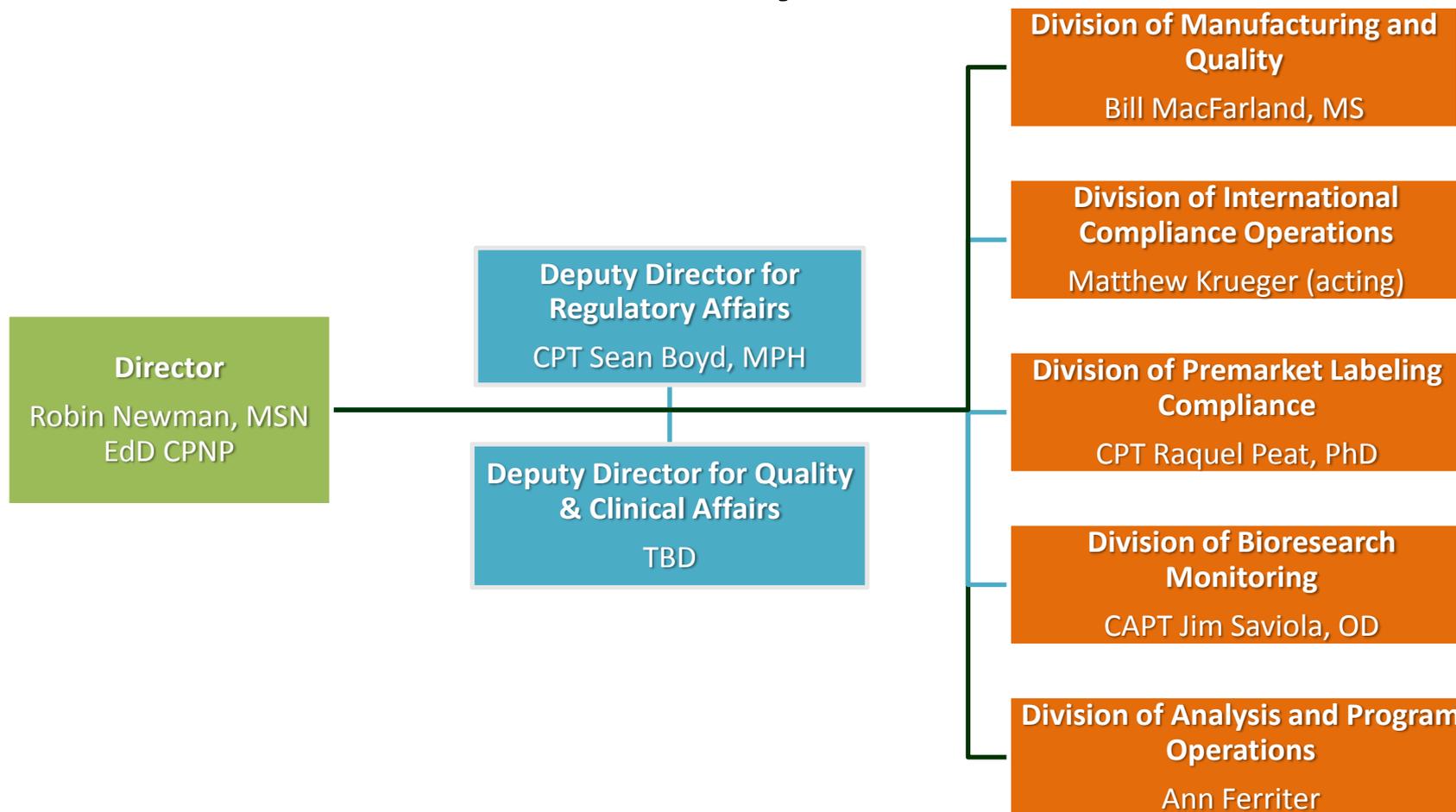
## How did we do?

- By December 31, 2016, establish *one or more new mechanisms* for employees to obtain patient input and foster participation of **10 groups**.
  - ✓ **6** *new mechanisms developed and in progress*
  - ✓ **21** *on and off site patient engagement opportunities*
  - ✓ **34** *patient groups participated*
  
- By December 31, 2016, **50% of CDRH employees** will interact with patients as part of their job duties
  - ✓ **68%** *of staff interacted with patients by November 31, 2016*

# Promoting a Culture of Quality



# CDRH Quality in the Office



# CDRH Quality in the Office

## Goals:

- Develop systems and procedures to support the Center goal to be eligible for ISO 9001 certification
- Develop tools and structures to support decision making that assesses safety and compliance across a product's life cycle.
  - Better collaboration between pre and post market staff
  - Increase in the number of staff members who can work in roles across the product lifecycle: pre-market, post-market, and compliance



# Compliance ≠ Quality

**“...one device manufacturer can meet FDA requirements  
and *still* make a poor quality device whereas  
a second manufacturer may not comply with all FDA requirements  
and yet make a high-quality device”**

***Jeff Shuren, M.D., J.D.,*  
Director CDRH**

**\*\*\*NOTE: Compliance to regulations is still important, as it is required – a high quality product is not a substitute for a compliant product under our current statutory situation**

<http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/MedicalDeviceQualityandCompliance/ucm378185.htm>

## Case for Quality Goals

- Identify new metrics and measures to see how device quality is measured, monitored and controlled
- Collaborate to see what performance and organizational expectations result in higher quality
- Explore how we should change our policies and practices to foster a culture of quality
- Advance solutions for increasingly complex and dynamic ecosystems
- Address needs of the public by ensuring availability of high quality medical devices

# FDA Regulatory Paradigm Shift

## What does a focus on quality mean for FDA?

Increased manufacturing and product confidence

Faster time to markets, better information to drive regulatory decisions, improved resource allocation

What is most important to patients

## Program changes beyond inspections:

Remove participants from the agency work plan for routine inspections

Waive pre-approval inspections where appropriate

Engagement and meetings on issue resolution

Reduced submission requirements and faster FDA response

Accelerated approval path

Competitive market around product excellence

# Value of Quality



# Why?

- Bring CfQ Teams and MDIC Teams together around one concrete deliverable to develop the elements needed for building a voluntary quality-focused program
- Ground the theoretical discussions in program deliverables to drive momentum
- Demonstrate FDA commitment through establishing “wins” for external stakeholders

# Case for Quality Proposal

## Focused Project Activity

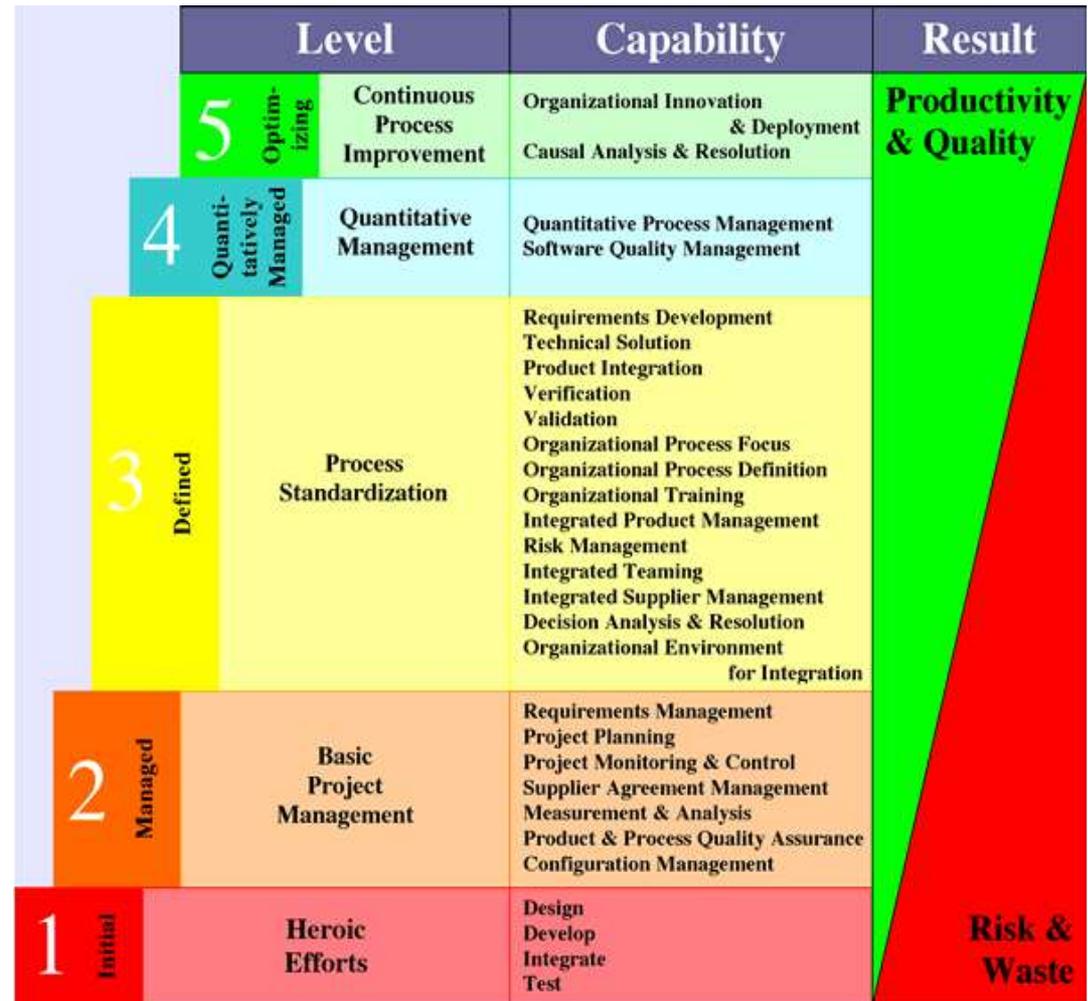
- **Manufacturing Module**
  - Cross center FDA teams establish program centered around full manufacturing with support from external MDIC teams
  - Develop 3<sup>rd</sup> party assessment evaluating organizational touch points
  - Reduce submission requirements for manufacturing activities

## Benefits

- Focused direction
  - **Tangible** objectives
  - **Measurable** data and metrics easier to define
  - **Adaptable:** Allows for the development of program that can be easily adapted for additional areas
- Submission reduction can be easily monetized
- FDA resource utilization can be quantified
- Data collection to begin feeding outcomes can begin

# Quality Maturity Model

- FDA is engaged with MDIC to evaluate the use of a Quality Maturity Model and maturity assessment process
- The Capability Maturity Model Integration (CMMI) has been selected as the appropriate model
- FDA and MDIC are working collaboratively to develop a proof-of-concept that will provide insight into the applicability of CMMI model to the medical device industry.



# MDIC Outcomes



## Maturity Team

- Assessment strategy for relevant practices
- Assessor oversight and training
- Monitoring strategy and metrics
- Data collection and analysis mechanism
- Feedback mechanism for evolving practices



## Analytics Team

- Method for collecting data to feed outcomes
- Standardized comparison method
- Outcome measures that can be collected from manufacturer
- Continued development of data sources



## Program Operation

- Input from MDIC on Program proposal
- Development of information sharing expectations
- Development of decision making process and participation rules
- Coordination of additional stakeholders



# Case for Quality Key Milestones

<b>March 30, 2017</b>	Present proposal at MDIC forum.
<b>March-June 2017</b>	Define manufacturing focused module
<b>March-November 2017</b>	Define and integrate quality program implementation
<b>April-May 2017</b>	FR Notice for Program Announcement
<b>July-October 2017</b>	Define development focused module
<b>August 2017</b>	Public meeting
<b>September 2017</b>	FR Notice for the Final Program Pilot
<b>November-December 2017</b>	Deliver public announcement (webinar or MDIC Forum)

# Where is CfQ Going?

2017

- FDA announces a voluntary, quality focused program ready to pilot

2018

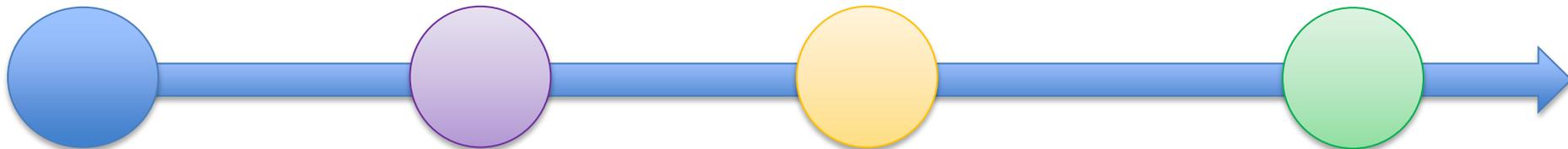
- Voluntary program pilot
- Management of results using quality tools
- Begin collecting and monitoring outcome metrics

2019

- Focus on improvement and enhancement of the program
- Share outcome indicators publicly
- Expand resources for new innovators and firms struggling with compliance

2020

- Expand program options and tools
- Improve premarket/post market decisions
- Leverage real world data for regulatory decisions



# On the Horizon



# On the Horizon—Program Alignment

Establish commodity-based and vertically integrated  
Regulatory Programs

- Delaying/streamlining
- Specialization
- Training
- Work planning
- Compliance and quality policy, enforcement and engagement
- Import operations
- Lab optimization

# Program alignment—what does this mean?



Investigators, compliance officers and managers specialized by program

Increased understanding of technology and manufacturing processes

Development of team-based approaches and streamlined decision-making

Shared strategic priorities & program goals

Work planning based on risk and global inventory

# Program Alignment—More to Come

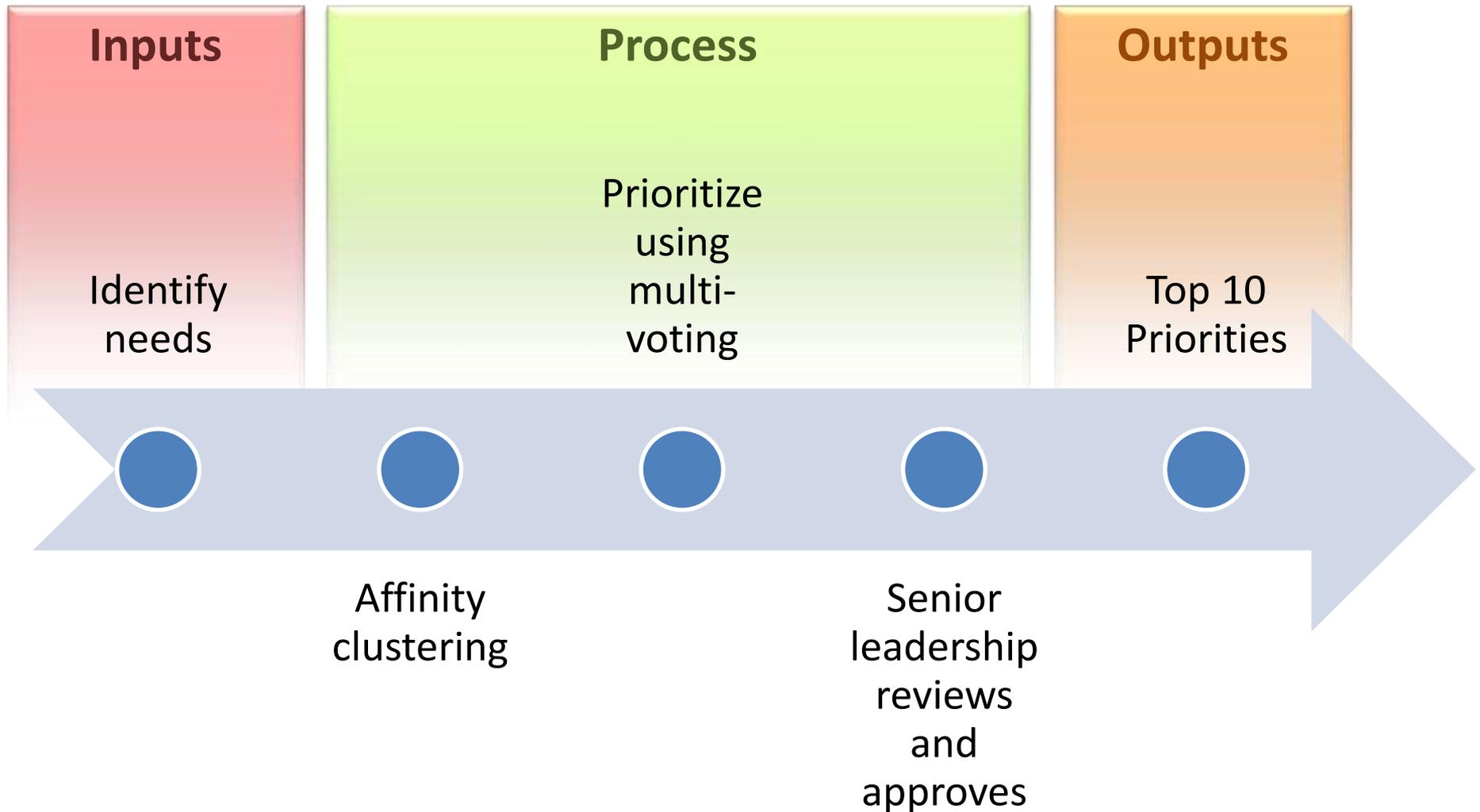
- Finalize decisions, organizational models, roll-out individual assignments
- Launch and continue transition activities through FY17
- Points of contact may change over time
- Continuous Improvement... including evaluating and measuring success

# On the Horizon—Regulatory Science Priorities

Regulatory science consists of the development of new tools, standards and approaches to assess the safety, efficacy, quality and performance of all FDA regulated products.



# Regulatory Science Prioritization: Process Outline







# On the Horizon - Total Product Life Cycle Initiative (TPLC)

- Provides visibility of a device, a firm, or class of devices from cradle to grave
- Blends premarket, postmarket, and compliance information and functions
- Incorporates information and approaches broadly in all pre and post approval decision making

# TPLC Goals

Promote focus on “Big Picture,” holistic, patient centered decision making

Promote increased responsibility and accountability for urgent safety issues

Leverage knowledge from postmarket and compliance programs to make better informed premarket decisions, and vice versa

Increase FDA knowledge about specific devices

Increase staff access to and integration of total product lifecycle information about the medical devices for which they are responsible

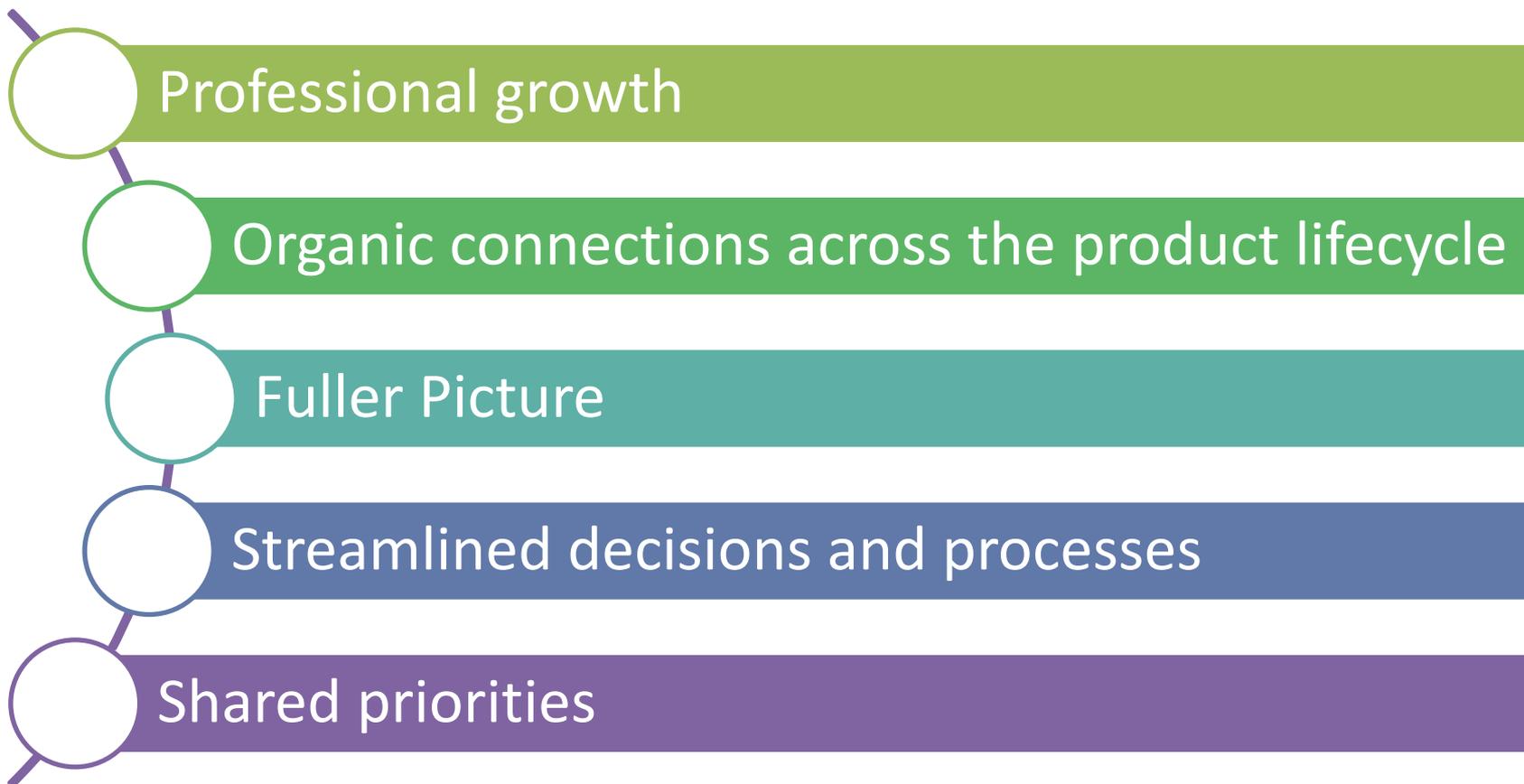
Minimize delays in information sharing

Ensure process consistency

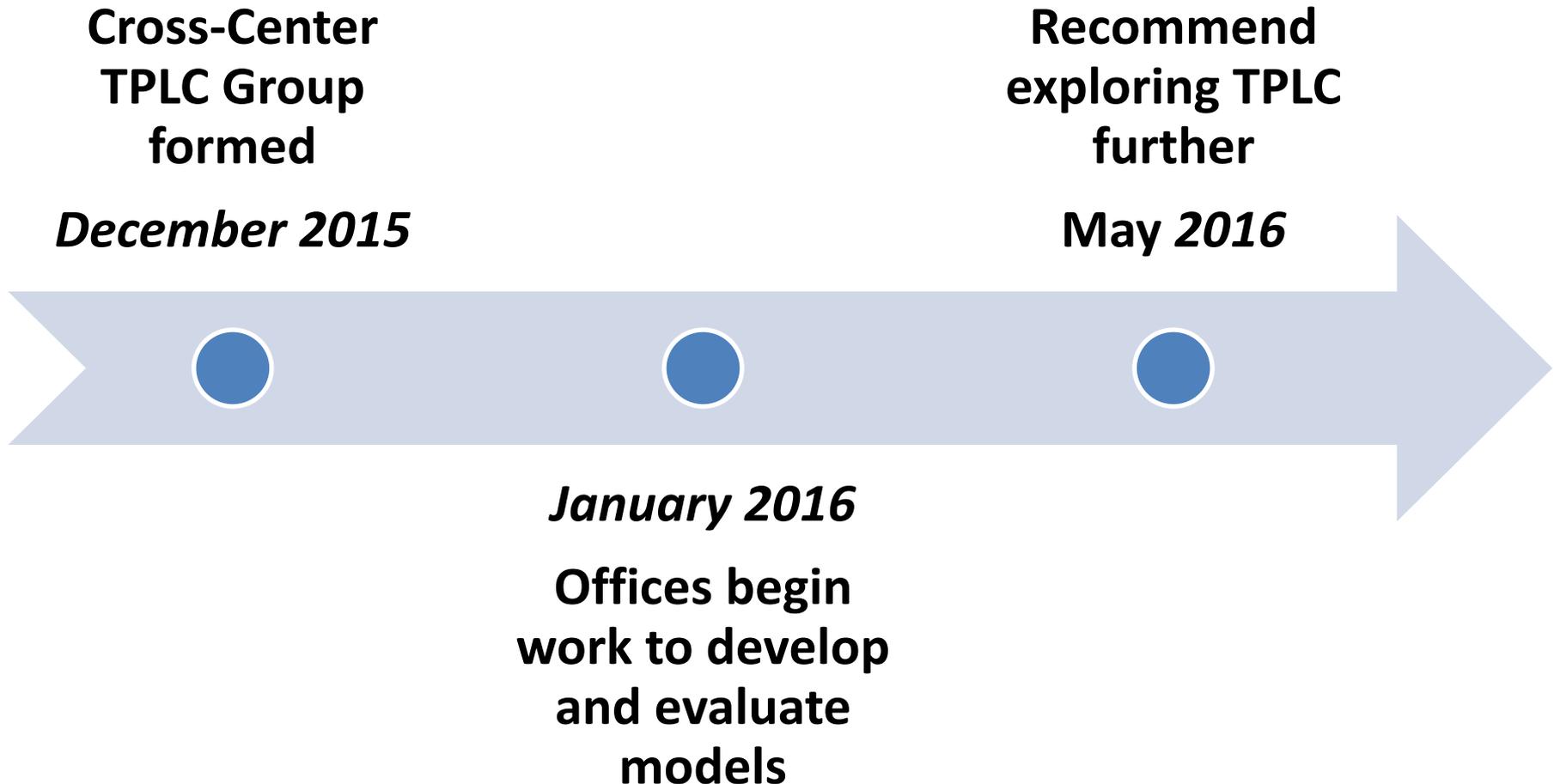
Facilitate policy consistency

Support timely review of all work products

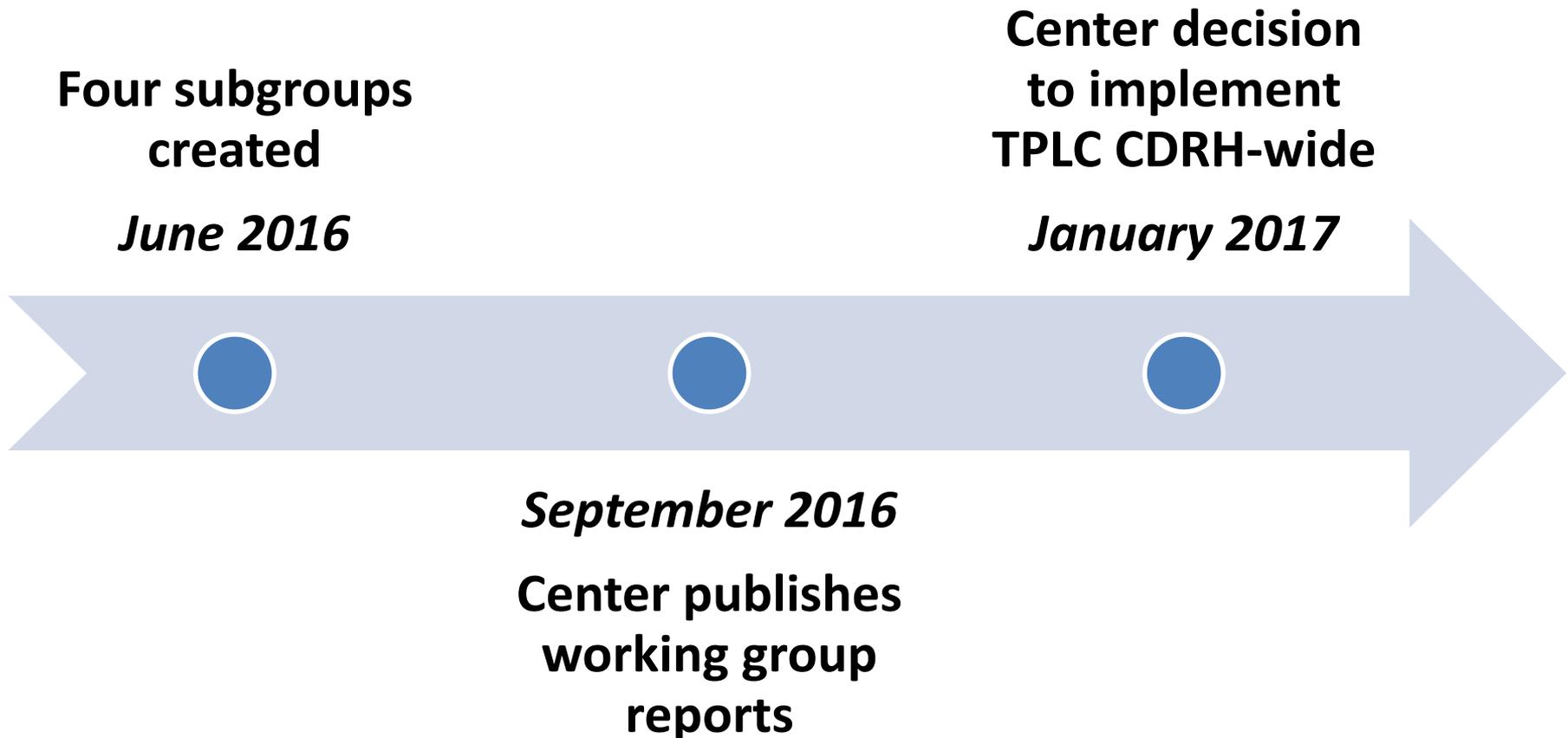
# TPLC Benefits



# TPLC Timeline



# TPLC Timeline



**Thank You!**

