

# Commonwealth Research and Technology Strategic Roadmap: Preview

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**RESOURCES AND PLANNING COMMITTEE**

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**STATE COUNCIL OF HIGHER  
EDUCATION FOR VIRGINIA**

# Roadmap – Council Objectives

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- **Advise on the scope and intensity of the strategic roadmap effort.**
- **Advise on the timing for completion of the roadmap and submittal to the Virginia Research Investment Committee (VRIC) for approval.**

# Roadmap – Situational Awareness

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## Statutory responsibilities

- § 23.1-203 assigns to Council the duty to develop “a comprehensive research and technology strategic roadmap for the Commonwealth.”
- § 23.1-3134
  - Assigns to VRIC the responsibility to approve the Roadmap.
  - Requires the Roadmap be developed at least every three years.
  - Requires the Roadmap-development process include a panel of independent experts.
  - Establishes a process for a research and development inventory.

# Roadmap - Definition

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## § 23.1-3134

**“The Committee shall approve a Commonwealth Research and Technology Strategic Roadmap, a comprehensive research and technology strategic roadmap for the Commonwealth *to identify research areas worthy of economic development and institutional focus.*”**

# Roadmap – Goal

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## § 23.1-3134

**“The goal of the Roadmap shall be to develop a cohesive and comprehensive framework through which *to encourage collaboration* between the Commonwealth’s institutions of higher education, private sector industries, and economic development entities in order *to focus on the complete life cycle of research, development and commercialization.*”**

# Roadmap - Framework

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§ 23.1-3134

“The framework shall serve as a means to

- i. Identify the Commonwealth’s key industry sectors in which investments in technology should be made by the Commonwealth;*
- ii. Identify basic and applied research opportunities in these sectors that exhibit commercial promise;*
- iii. Encourage commercialization and economic development activities in the Commonwealth in these sectors; and*
- iv. Help ensure that all investments of public funds in the Commonwealth in basic and applied research are made prudently in focused areas for projects with significant potential for commercialization and economic growth in the Commonwealth.”*

# Roadmap - Foundational Work

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1. **TEconomy Partners assessment/Implementation Advisory Team (IAT).**
2. **Roadmap Coordinator's work to date:**
  - Commenced in October 2018.
  - Reviewed reports, prior roadmaps, best practices and research inventories.
  - Interviewed individual stakeholders.
  - Monitored 2019 legislative session.

# Roadmap – Overarching Elements

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## Core elements:

1. Establish baseline conditions/SWOT analysis.
2. Define purpose of the Roadmap.
3. Delineate goals, timelines and responsible parties.
4. Identify metrics to measure success.
5. Align with *The Virginia Plan for Higher Education*, public institutions' six-year capital outlay plans, GO Virginia plans and other strategic efforts.



# **Proposed Workplan for the Roadmap**

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- 1. Identification of and engagement with expert panel on process, domains and with stakeholders.**
- 2. Engagement with stakeholders for feedback on framework and process.**
- 3. Sign off by Council and approval by VRIC.**
- 4. Dissemination of approved roadmap to appropriate parties.**

# Questions for Council

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*What are members' priorities in terms of roadmap scope and intensity?*

*What are members' thoughts on aiming for roadmap completion in the fall?*

# Roadmap Framework Revisited

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§23.1-3134

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# Feedback from VRIC

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- **Identify domain areas worthy of focus as primary scope of the Roadmap.**
- **Utilize TEconomy and IAT data as a starting point for the Roadmap.**
- **Produce the Roadmap within six months for VRIC approval (i.e., at the October 8 meeting).**

# Feedback from Stakeholders

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- **Focus state money/funding on core domain areas.**
  - Offer proof-of-concept and early stage funding.
  - Use funding to attract eminent scholars and competitive research centers.
- **Consider Life Sciences domain as too broad – further define opportunities.**
- **Support emerging opportunities.**
- **Rotate funding cycles to concentrate funding annually on specific domain areas.**
- **Continue assessment of R&D inventory.**

# Looking Forward – Next Steps

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- **Incorporate feedback from VRIC and Council into workplan.**
- **Request recommendations for expert panel.**
- **Commence Roadmap development.**
- **Provide regular updates at meetings of Council and VRIC.**