

**COMMONWEALTH CENTER FOR
ADVANCED MANUFACTURING: A
model for public-private partnership in
advanced manufacturing**

**Donald J. Leo
Vice President and Executive Director
National Capital Region
Virginia Tech**

CCAM is a collaborative public-private partnership between industry, academia, and government





Dr. Keith Williamson
Dean
School of Engineering
Sciences and Technology
CCAM Board Member

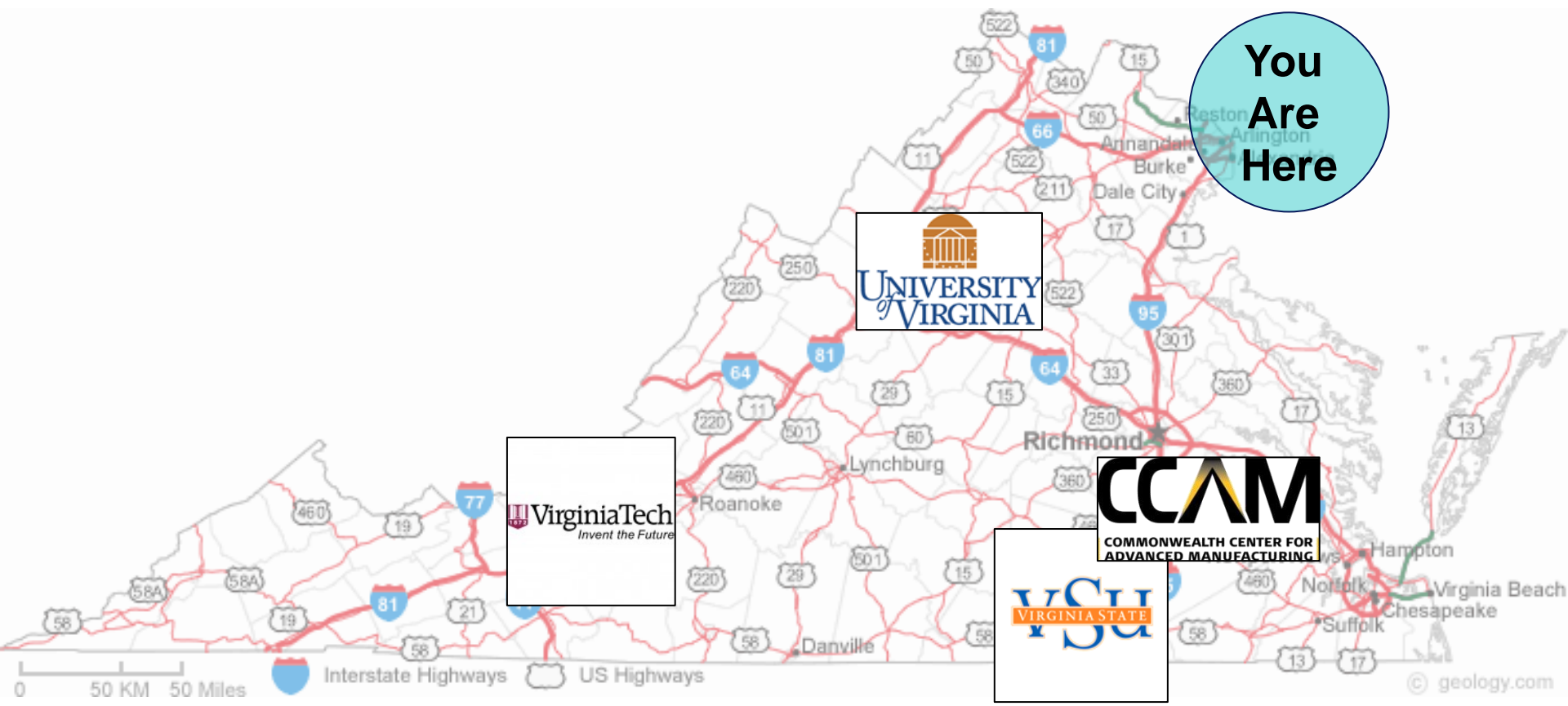


Dr. Barry Johnson
Senior Associate Dean
School of Engineering and
Applied Sciences
CCAM Board Member and
Founding Chair



Dr. Donald Leo
Vice President and Executive Director
National Capital Region Operations
Virginia Tech
CCAM Board Member

CCAM is located in the mid-Atlantic region near Richmond, VA



You Are Here



CCAM is part of Crosspointe, a manufacturing campus that will include multiple Rolls-Royce facilities and supplier facilities



President Obama announcing the NNMI program, March 2012 at Rolls-Royce Crosspointe

CCAM accelerates the development of production-ready technologies for its corporate members



CHROMALLOY



SIEMENS

SULZER

Sulzer Metco

AEROJET



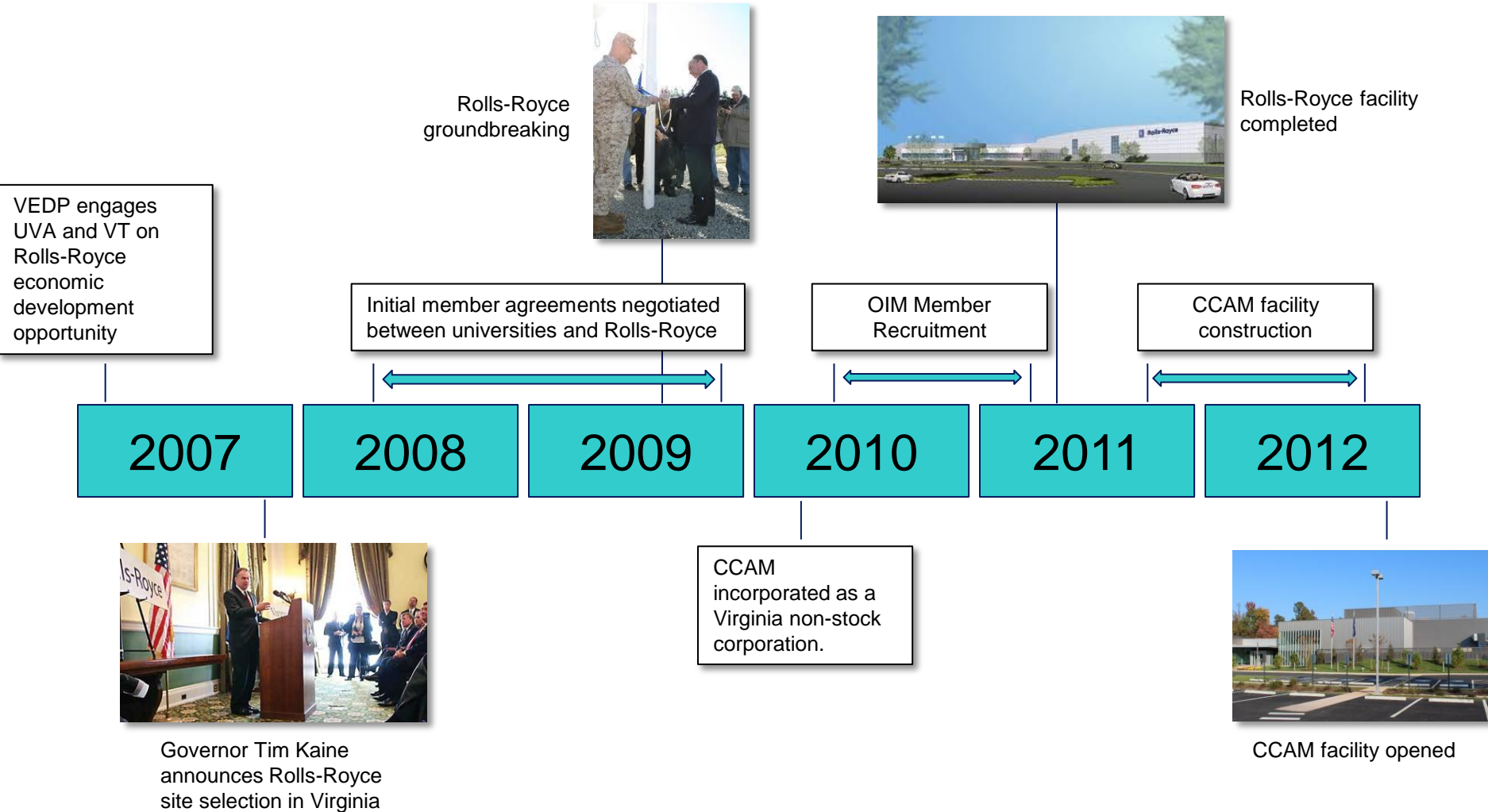
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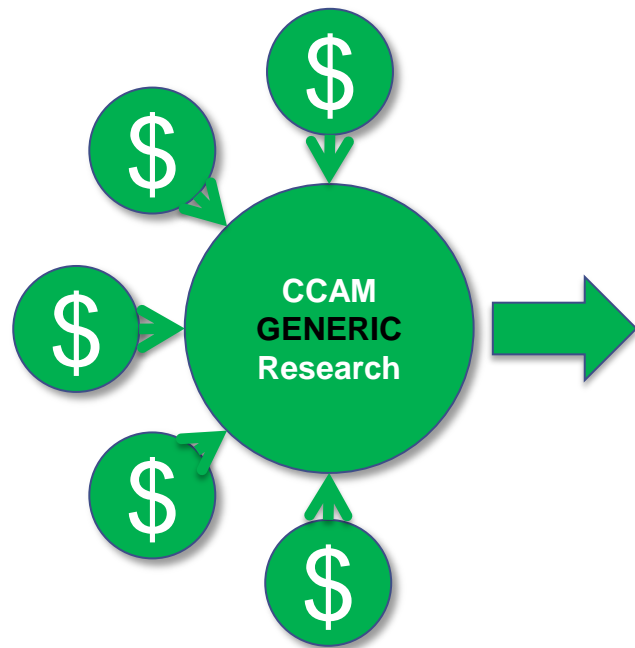
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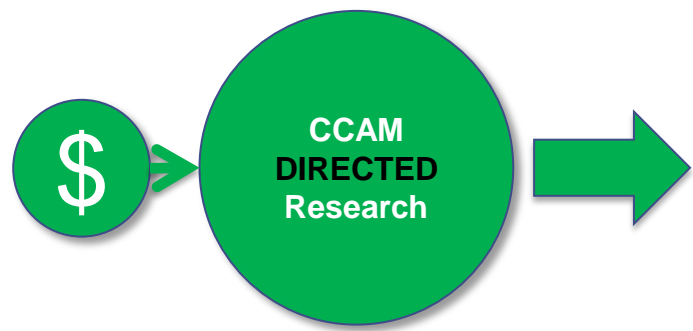
CCAM has been a multi-year, collaborative effort



CCAM is structured to enable various types of research activities



Corporate research \$ is amplified by gaining IP access to results of ALL generic research.



Corporate sponsor OWNS any IP resulting from Directed Research.

- **CCAM enables the translation of basic research results into industry practice.**
- **Close collaboration with industry through CCAM enables greater understanding of industry needs.**
- **Production-scale equipment in CCAM provides opportunities for joint funding of translational research projects.**
- **CCAM provides on site research opportunities for faculty and students. CCAM has already hired student interns from all three partner universities and is currently funding graduate students and post-doctoral associates through sponsored research.**

Key lessons learned in building a public-private partnership

- **Our decision early in the partnership to adopt a consistent and graduated IP policy was critical to member recruitment. The universities had to be flexible on the IP policy to attract members willing to invest sufficient funds to make CCAM a viable enterprise.**
- **Engaged industry board members – at the executive level – are critical to continued corporate engagement in the center.**
- **Early, comprehensive planning has been critical to initial member recruitment. Flexibility in the bylaws and member agreements has been important to growing the center.**
- **Appointing enthusiastic faculty liaisons has been critical to engaging the universities in the project.**
- **Support by local and state government has been an important element to member recruitment and workforce development.**

The long-term goal is to lead the nation and the world in translational research for advanced manufacturing.

- **Increase industry representation in new manufacturing sectors.**
- **Obtain federal funding for a large multi-year initiative.**
- **Make CCAM and Crosspointe the hub of manufacturing activity in the region.**