Cyber-Physical Systems Virtual Organization: Active Resources

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The central objective of the proposed research is to transform the CPS-VO from a collaboration platform and passive repository of information into an active resource that provides access to tools and methods emerging from the CPS research community.

The project will make a significant contribution to education via support to student competitions that will help prepare a new generation of students who will be inspired and trained to realize the promise of CPS. We expect that the integrated suite of models, integration platforms, and intellectual frameworks

CPS-VO BROWSE SEARCH MY GROUPS



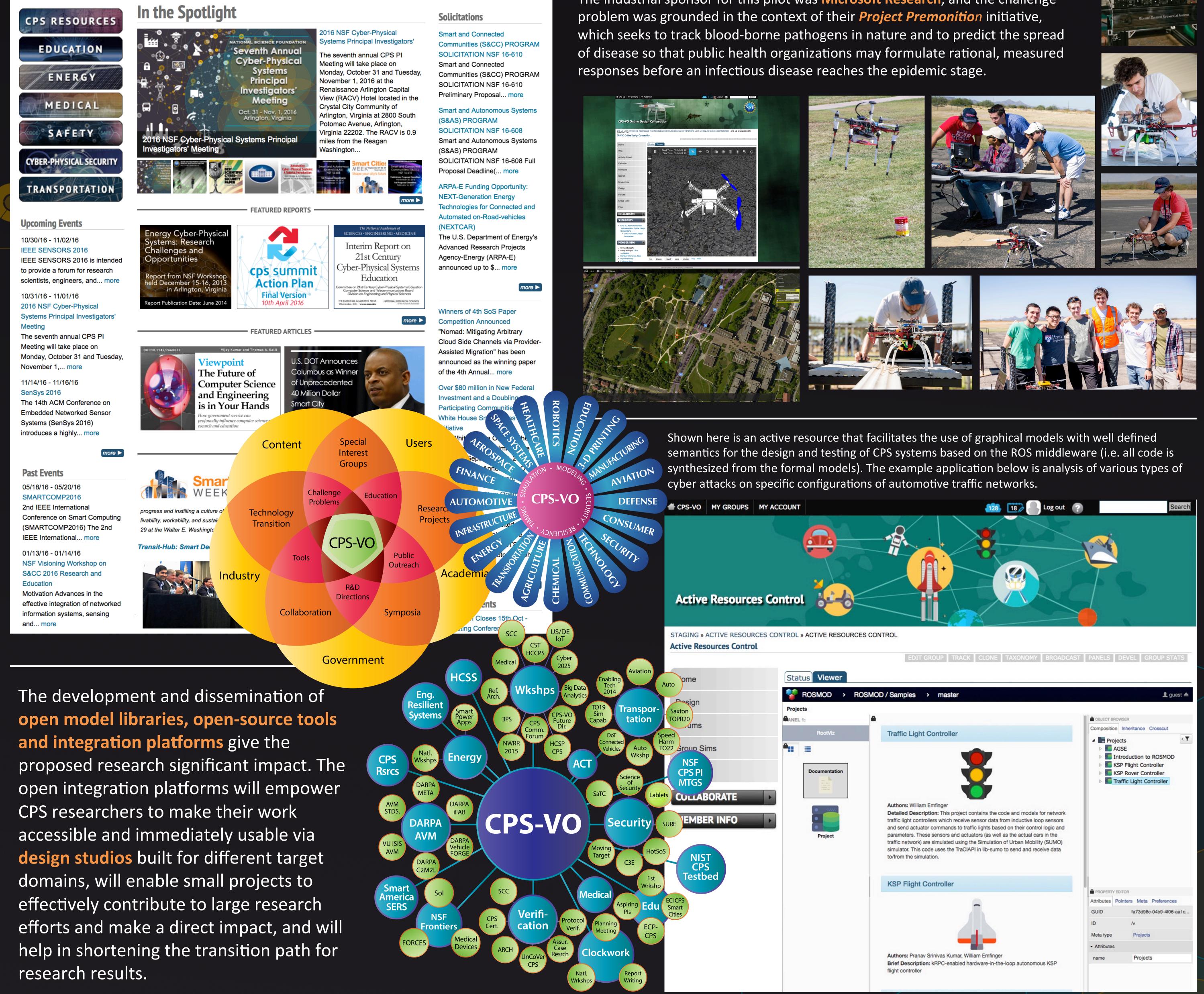
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Cyber-Physical Systems Virtual Organization Fostering collaboration among CPS professionals in academia, government, and industry

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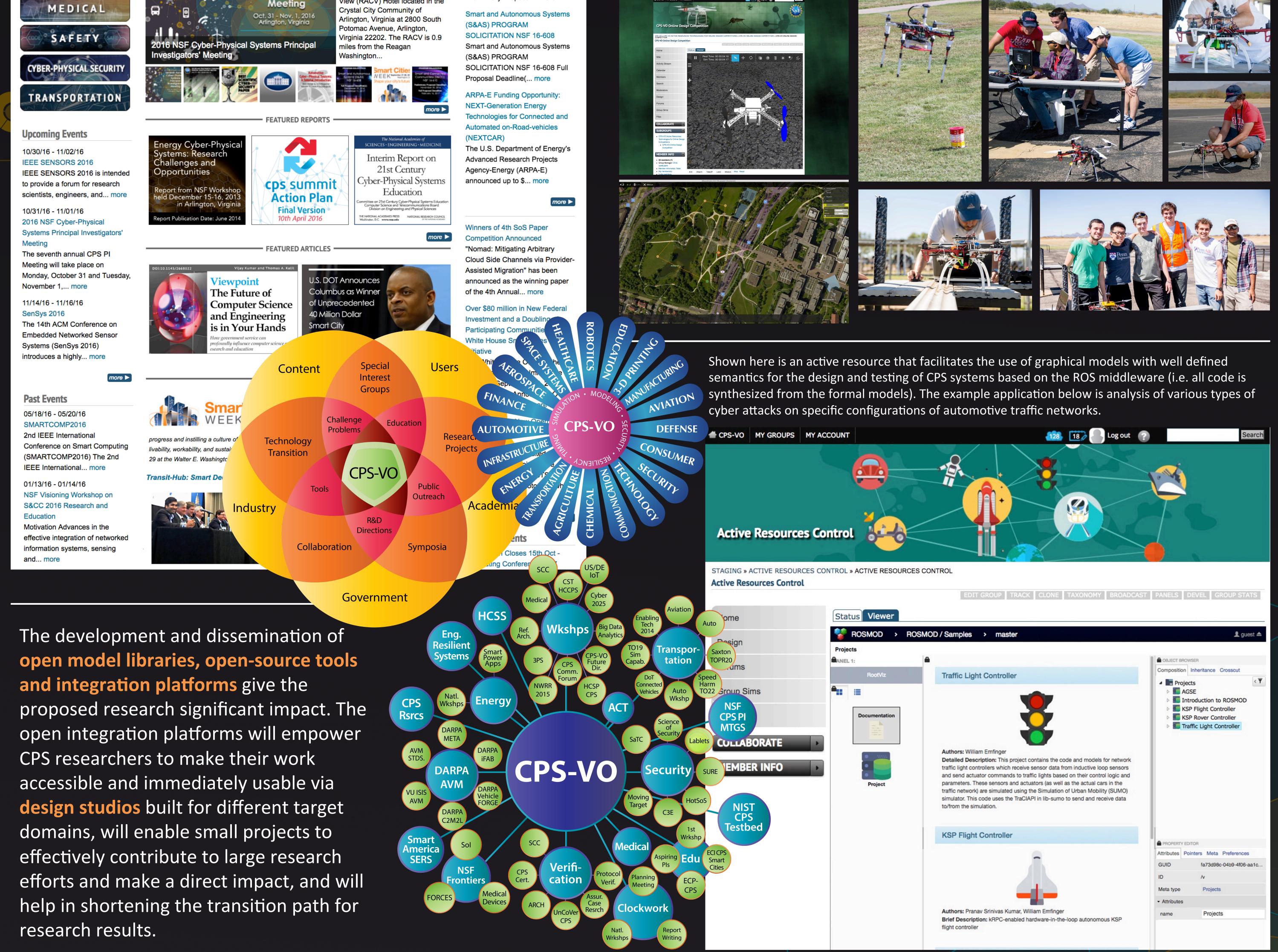


Pilot Student Challenge

As a first step towards providing templates and infrastructure for student competitions via the CPS-VO portal, we ran a pilot with the four partner universities.

Using modeling, simulation and verification tools, teams co-designed mechanical fixtures and software controls focusing on the end-to-end design, implementation and validation of actual CPS systems.

The industrial sponsor for this pilot was **Microsoft Research**, and the challenge











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