

from a remarkable, wtf moment in 2011...

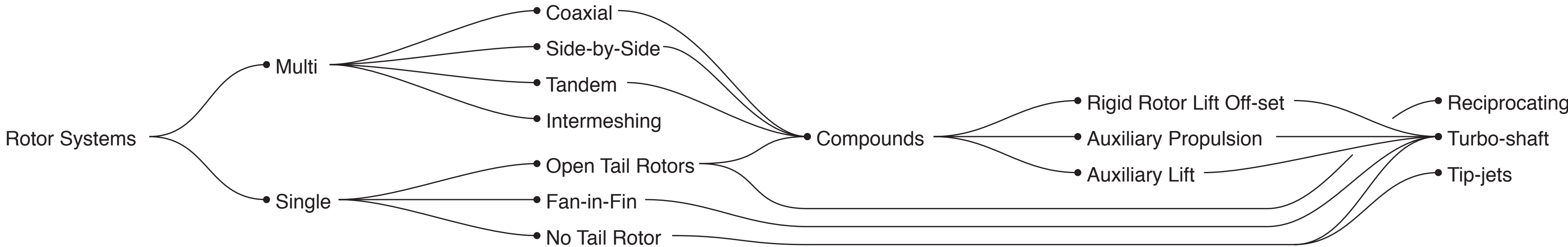
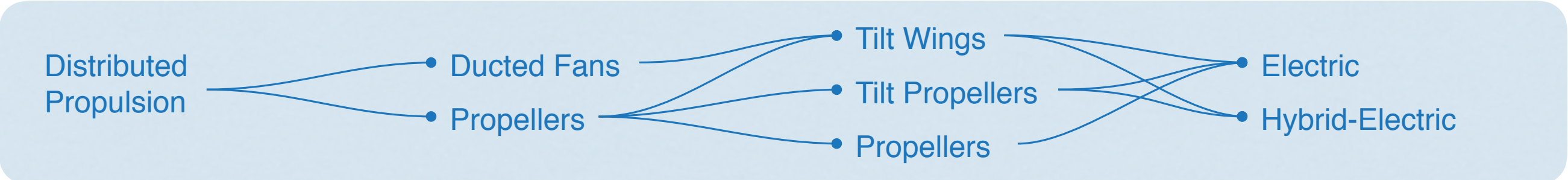
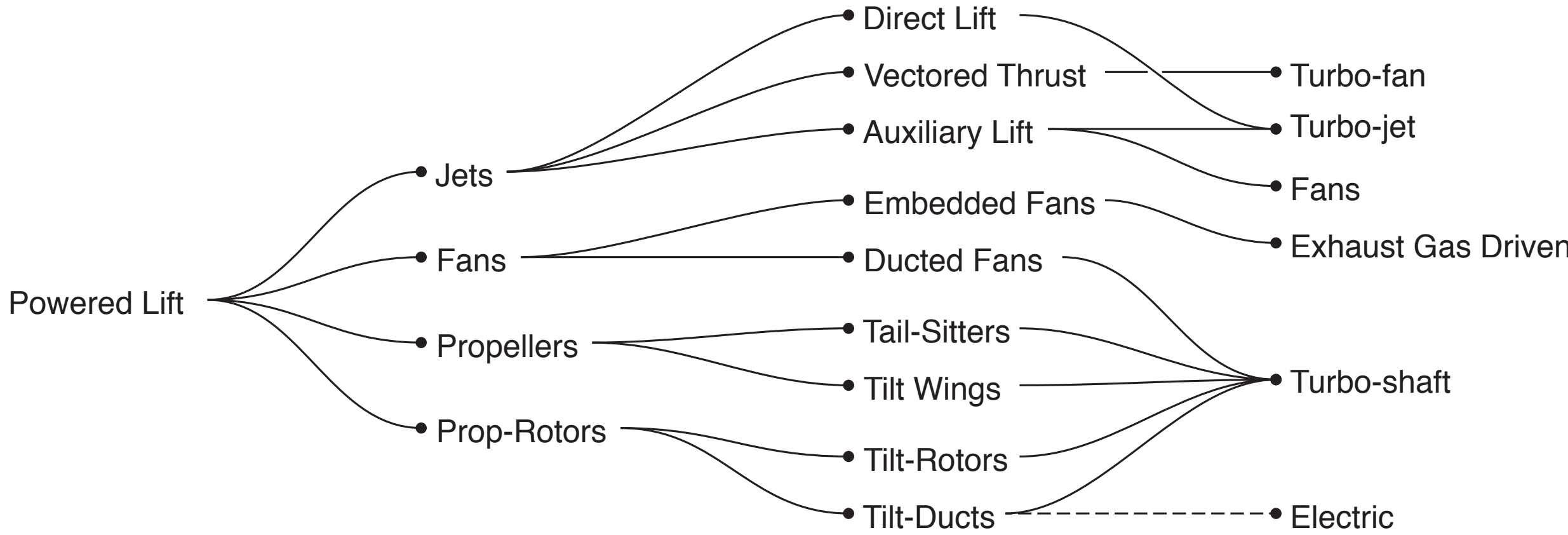


to ubiquitous democratization...



Evolution of a New Species...

Of distributed propulsion and transmission agnostic design...



Envisioning Urban Air Mobility

Aeromechanics Design for Transformative Vertical Flight

Ashish Bagai

Department of Aerospace Engineering
University of Maryland, College Park

AHS International Technical Meeting

Holiday Inn at Fisherman's Wharf, San Francisco, CA

16 January 2018



Credits: NASA

Urban • Air • Mobility

Urban

: in, relating to, or characteristic of a city or town

Air

: the free or unconfined space above the surface of the earth

: referring to the use of aircraft

Mobility

: the ability to move or be moved freely and easily

NASA

: a safe and efficient system for vehicles, piloted or not, to move passengers and cargo within a city



Washington Post

Helicopter Services, Inc.(!)



Our Panelists



Karthik Balakrishnan
Project Executive at A³ by Airbus 



J. Scott Drennan
Director of Engineering Innovation at Bell Helicopter 



Andrew Gibson
President of Empirical Systems Aerospace 



Mark Moore
Engineering Director of Aviation at Uber 



Chris Vanbuiten
Vice President of Technology and Innovation at Sikorsky Aircraft 

Today's Discussions

Overview of company initiatives and technical areas of investment and objectives
(20 min.)

Design challenges, development times, simulation, modeling and control systems

Technologies key to enabling urban air mobility; advantages of EDP

Requirements for test and certification purposes

Operational considerations, ownership/operating costs

What Urban Air Mobility means in a wider context

Alternative models and ecosystems for air mobility

Early adopters opportunities to catalyze air space integration

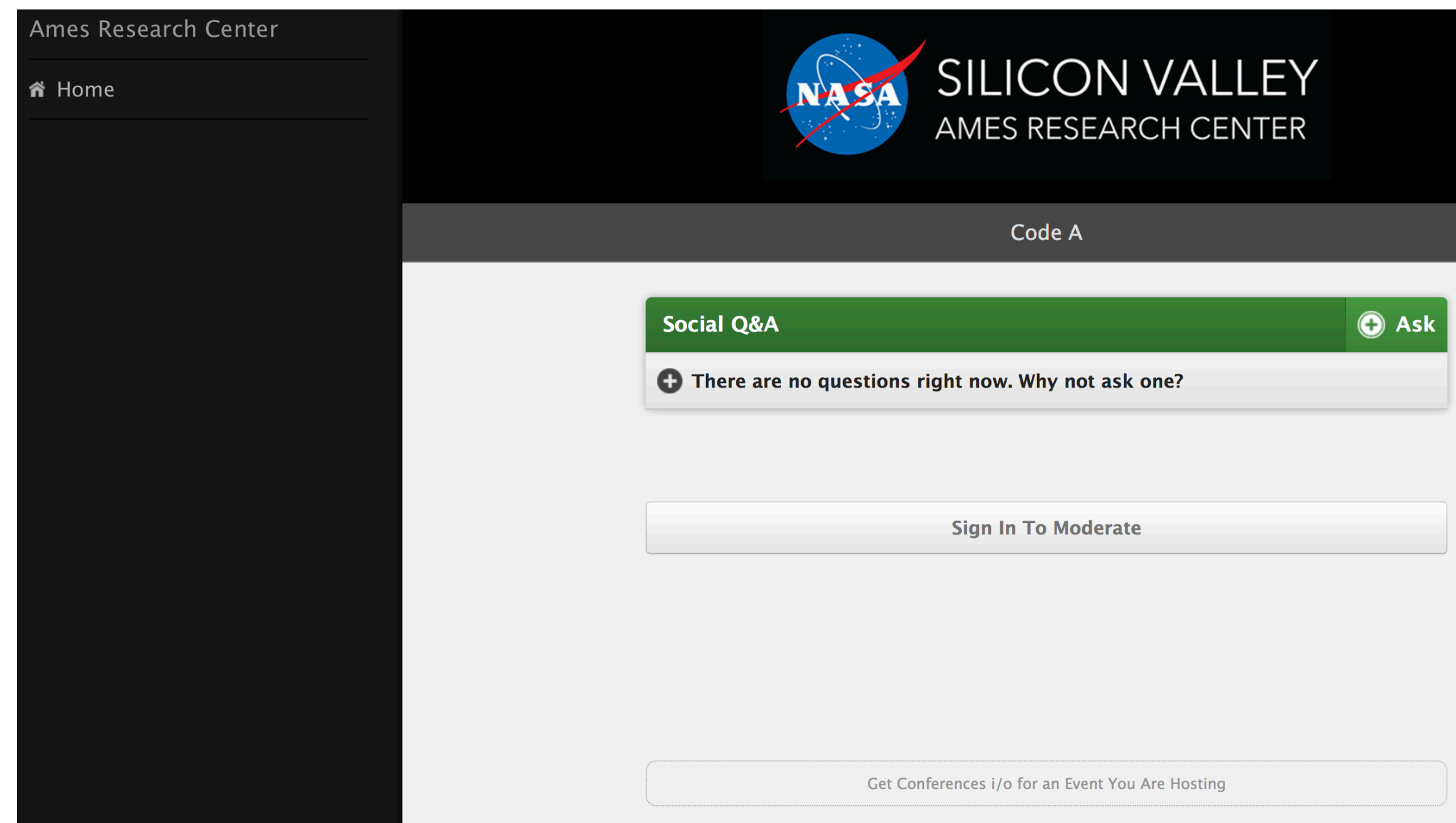


Guidelines

Your interactions are encouraged.

Please submit your questions via: www.arc.cnf.io/sessions/tcns/ (anonymous)

Will address them after all the panelists have spoken



Organizing Champions

Barry Lakinsmith — General Chair

U.S. Army Aviation Development Directorate – Aeroflightdynamics Directorate

Colin Theodore — Technical Chair

NASA Ames Research Center



AHS International Technical Meeting
**Aeromechanics Design for the Transformative Flight
& The 5th Transformative Vertical Flight Workshop**

Jan. 16-19, 2018
Holiday Inn at Fisherman's Wharf
San Francisco California

Sponsored by the AHS San Francisco Bay Area Chapter

 The Vertical Flight
Technical Society

