

# Successful Practice/Academe Collaborations

- The objective has been:
  - Collect and analyze data from specific collaboration projects.
  - Identify best practices and disseminate as a guide to others.
- Taskforce Members:
  - David A. Anisi, Associate Professor, NMBU/UiA, Oslo, Norway
  - Philippe Goupil, Aircraft Control System Expert, Airbus, France
  - Chris Manzie, Professor, The University of Melbourne, Australia
  - R. Russell Rhinehart (Russ), Professor Emeritus, Oklahoma State University, USA
  - Bran Selic, President and Founder, Malina Software Corp., Canada
  - Atanas Serbezov, Professor, Rose-Hulman Institute of Technology, USA
  - Jaroslav Sobota, Control System Engineer, Centrum LTD, Czech Republic

# Survey Responses

- Developed and posted a survey.
- Received about 240 survey attempts, of which about 125 were useful.
- 85 unique collaborations were identified.
- Survey participants statistics:
  - 24 countries were named.
  - 31% academe only, 20% practice only, and 26% both.
  - Over 11 academic disciplines, and 13 application domains were represented.
  - We are pleased with the experience balance.
  - Responses were universally consistent.

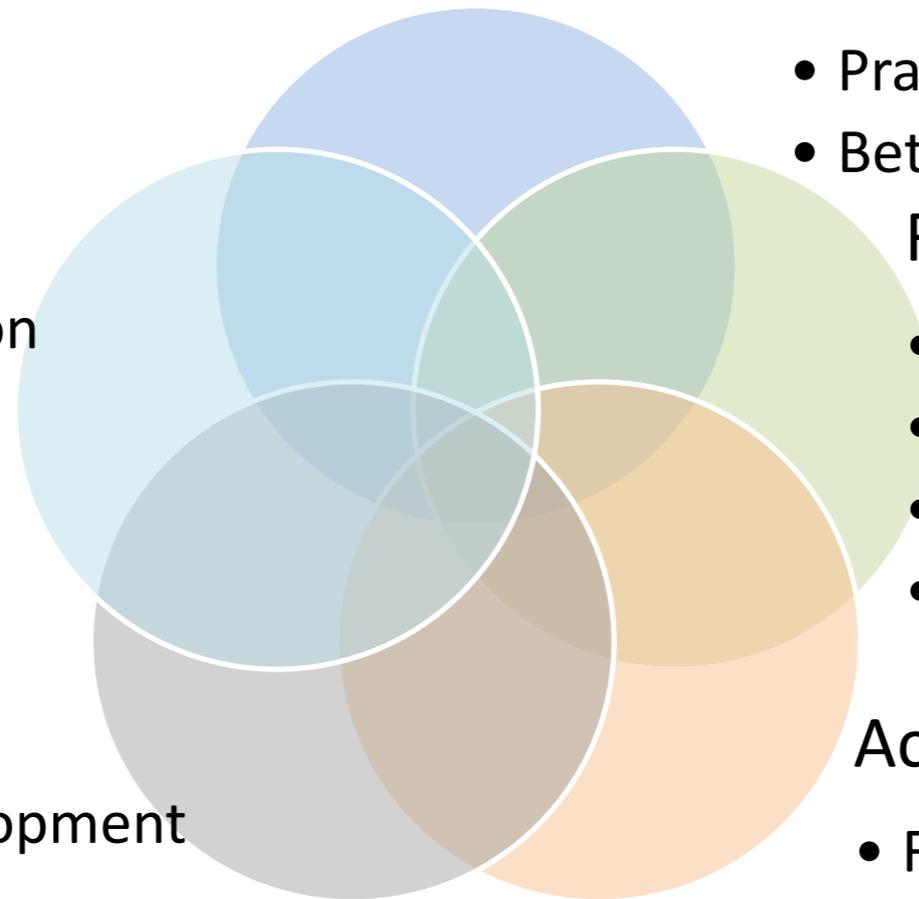
# Incentives and Benefits for Participants: Successful Collaborations Must Produce a Win for Every Participant

## Practice Entity

- New ideas
- Recruiting talent
- Brand name recognition
- Societal responsibility

## Practitioners

- Professional development
- Career promotion
- Personal satisfaction



## Students

- Practical Knowledge
- Better employment opportunities

## Faculty

- Professional development
- Funding
- Practical relevance of curriculum
- Personal satisfaction

## Academic institution

- Funding
- Reputation
- Societal responsibility

## Ten Keys for Successful Collaboration between Academia and Practice

1. Address a joint problem and share a vision that provides a win for all.
2. Define success and deliverables.
3. Define objectives, goals, schedule, and milestones.
4. Gain support of leadership.
5. Secure adequate funding and staffing.

6. Define responsibilities.
7. Appoint a project manager / program director.
8. Build realistic expectations.
9. Stay engaged and connected.
10. Develop mutual trust, respect, and lasting personal relationships.

# Publications

- Serbezov, A., R. R. Rhinehart, P. Goupil, D. A. Anizi, “Academic-Practice Collaborations in Automation and Control: Keys for Success” IFAC Symposium on Advances in Control Education 2022 (Hamburg, Germany, 24-27 July 2022, <https://ace2022.org/>), will be published in *IFAC-PapersOnLine*, open access publication
- Rhinehart, R. R., “Best Practices for Collaboration Between Industry and Academe”, InTECH, Vol. 69, No. 5, Oct 2022, pp 18-22 (InTECH is the International Society for Automation periodical, a practitioners’ magazine).
- Serbezov, A., and R. R. Rhinehart, “Keys for Success of Academic-Practice Collaborations”, IFAC Newsletter, August 2022, No.4, page 2.

# Activity

- The taskforce mission of creating and interpreting the survey and creating presentations and publications has been accomplished.
- The Taskforce is closed.
- Survey and Data are to be posted at <https://sites.ifac-control.org/industry/committee-reports-and-presentations/indcom-publications-and-reports/industry-and-academe-collaboration> to be available for others to use.