

Associate Professor anthonychood@uab.edu www.anthonychood.com 205 903-1393

@anthonychood #teamscience #SciTs

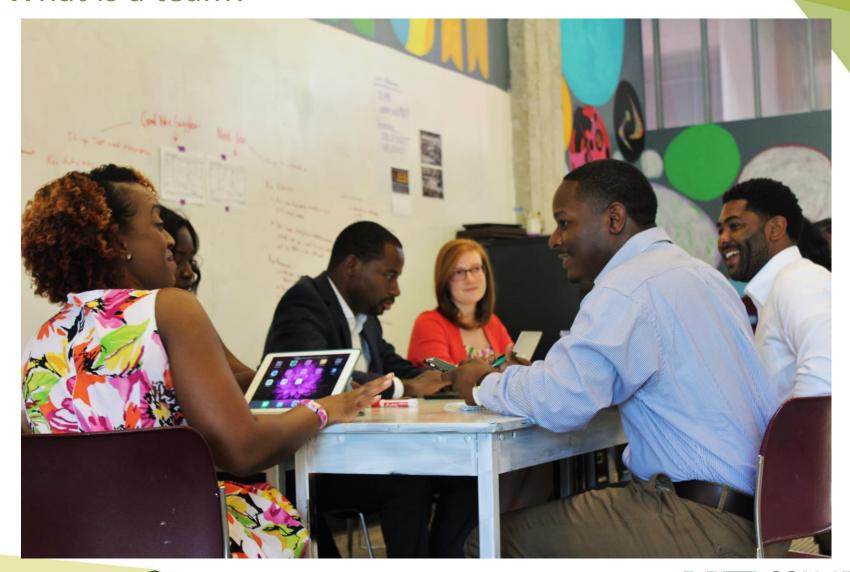


Objectives: At the conclusion of this workshop, participants will be able to identify and describe:

- Differences between
 - Teams and Groups
 - Creativity
 - Innovation
 - Entrepreneurship
 - Strategy
- Primary types of conflict in teams
 - Task
 - Relationship
 - Process



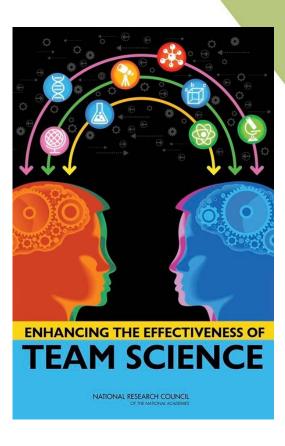
What is a team?

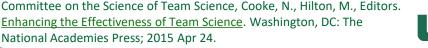




What is a team?

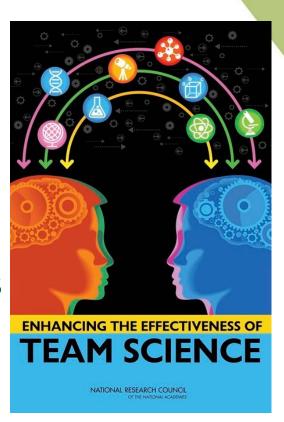
"Two or more individuals with different roles and responsibilities, who interact socially and interdependently within an organizational system to perform tasks and accomplish common goals" (NAP report, p. Sum-1).





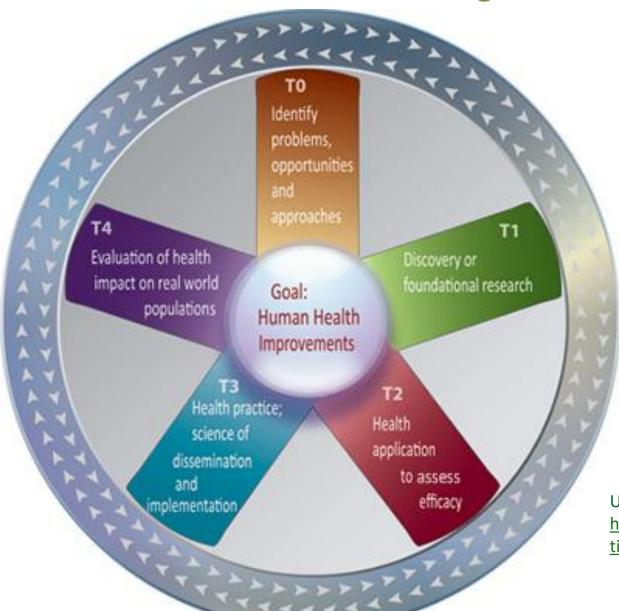
Current trends in scientific research

- 90% of all science and engineering pubs are by 2 or more authors
- Most pubs authored by 6-10 researchers across multiple institutions
- Researchers are not always academics
- Team size continues to increase





Translational Science Paradigm



U. Of Washington, T-Phases https://www.iths.org/investigators/definitions/translational-research



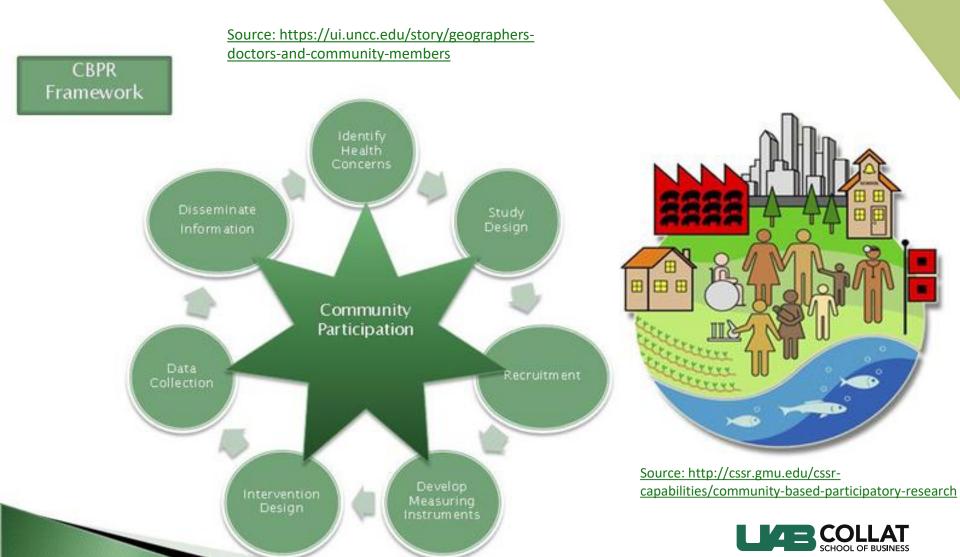
Patient Centered Outcomes Research Institute (PCORI)



http://www.theamericannurse.org/index.php/2012/04/02/supporting-research-with-patient-centered-outcomes/



Community-Based Participatory Research



Knowledge that will change your world

Building Interdisciplinary Teams

Team-Based Creativity

• The *exchange* and *combination* of *divergent* yet *complementary* bits of information between 2 or more team members that produces something that is both *novel* and *potentially useful* (Amabile, 1983; Amabile et al., 1996; Gino et al., 2010; Nahapiet & Ghoshal, 1998)

Team-Based Innovation

- Implementation of a novel or useful discovery or product (Hulsheger et al., 2009)
- Translation (taking action to move and transform the idea from one phase to another)



Building Interdisciplinary Teams

Team-Based Entrepreneurship

- Opportunity-seeking behavior.
- Commercialization. Tech transfer. Start-up activity. University spin-offs. Intellectual property. Licensing. Patent protection. Business incubation.
- Income generation. Profit maximization. Wealth creation.

Team-Based Strategy

- Advantage-seeking behavior.
- How to out-perform and out-compete others. (e.g. Ireland, Hitt and Simon, 2003)
- Sustainability. Long-range planning.



What is conflict?





3 Primary Sources of Conflict

Task conflict

Ideas, viewpoints and opinions (Jehn, 1995)

Relationship conflict

 Interpersonal incompatibilities, annoyance, frustration (Jehn, 1995)

Process conflict

 Task delegation, resource allocation, workload sharing (Jehn & Bendersky, 2003)

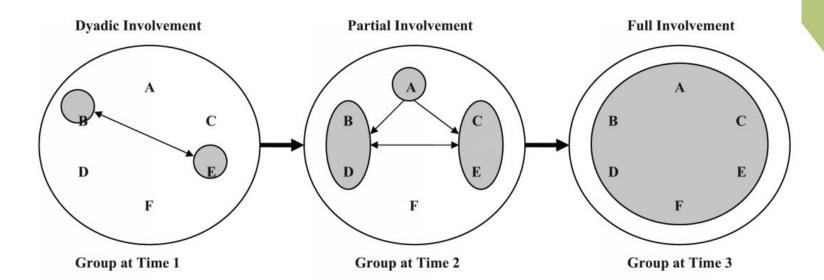


Conflict can be Contagious

Mechanisms for Conflict Contagion

Satisfaction

Moderate



Coalition Formation

Mechanisms for Conf	net contagion	Emotional Contagion	Emotional Contagion	
Conflict Dynamics		Threats to Outcomes	Threats to Outcomes	
Resolution Potential	High	Low		Moderate
Competitive Tactics	Moderate	High		Moderate
Outcomes				
Performance	High	Moderate		Low
Efficiency	High	Low		Low
Creativity	High	Moderate		Low
Turnover	Low	Moderate		High

Coalition Formation

Jehn, K., Rispens, S., Jonsen, K., & Greer, L. (2013). Conflict contagion: a temporal perspective on the development of conflict within teams. International Journal of Conflict Management, 24(4), 352-373.

Low



Low

Conflict can be *Multiplex*

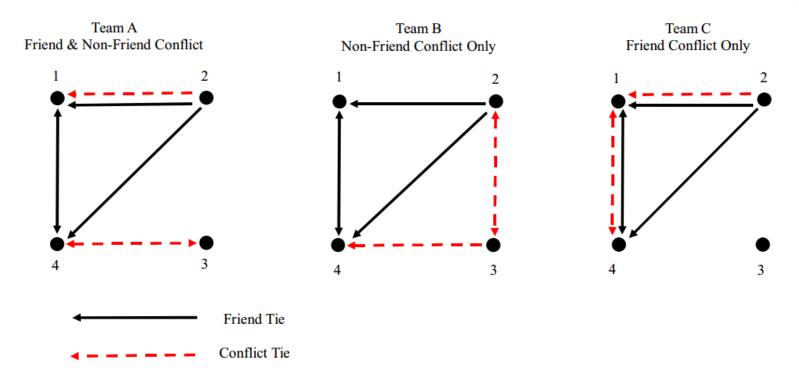


Fig. 1 Illustration of the multiplex view of friendship and conflict in teams



Psychological Safety in Teams

- "In the context of teams, psychological safety (PS)
 refers to team members' assessment that the team's
 environment is safe for interpersonal risk-taking
 (Edmondson, 1999)."
- "PS influences willingness to engage in potentially threatening behaviors, such as many of those associated with creativity and learning in groups."

Knowledge that will change your world

Psychological Safety (Edmondson, 1999; Edmondson & Lei, 2013)

Do team members feel comfortable engaging in potentially risky interpersonal behaviors such as:

- Admitting errors
- Asking for help
- Speaking up
- Challenging/Questioning/Vetting

Without concern for:

- Devaluation, distortion or discounting of expertise
- Rejection



For Discussion/Next Steps

 What are you going to differently as a result of this information?

Can conflict be avoided?

 How can you create a psychologically safe team environment?



Questions?







Transactive Memory Systems (TMS)-Mental Model of Tasks, Expertise and People

Tasks	Expertise	People



Transactive Memory Systems (TMS)-Mental Model of Tasks, Expertise and People

Tasks	Expertise	People
Grantsmanship	??	Susan
Data analysis	Biostats	??
Comm Organizing	Church Leader	??
??	Health Disparities	Karen
Publish	??	John
Health Screenings	Clinician	Chris
Qualitative Surveys	CBPR	??



Agency for Healthcare Research and Quality (AHRQ) TeamSTEPPS®: Strategies and Tools to Enhance Performance and Patient Safety





UAB Office of Interprofessional Simulation for Innovative Clinical Practice







UAB Office of Interprofessional Simulation for Innovative Clinical Practice





NSF Innovation Corps and I-Corps™ at NIH











I-Corps™ at NIH





Business Model Canvas: A Tool for Teams

CUSTOMER WHO WILL YOUR BUSINESS SERVE?





SOLUTION HOW WILL YOU SOLVE YOUR CUSTOMER'S PROBLEM? (THE FEATURES OF YOUR PRODUCT OR SERVICE) BENEFIT



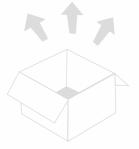




HOW DO YOU GET YOUR CUSTOMER TO KNOW, LIKE, AND TRUST YOU? WHAT IS YOUR STORY? HOW DO PEOPLE FIND YOU?







REVENUE

HOW WILL YOU MAKE MONEY FROM YOUR CUSTOMER?



CO.STARTERS **CANVAS**

STARTUP NEEDS

WHAT DO YOU NEED TO GET STARTED (MONEY, PEOPLE, THINGS, TECHNOLOGY, ACTIVITIES)?









WHAT IS ESSENTIAL TO KEEP YOUR BUSINESS GOING (MONEY, PEOPLE, THINGS, TECHNOLOGY, ACTIVITES)?



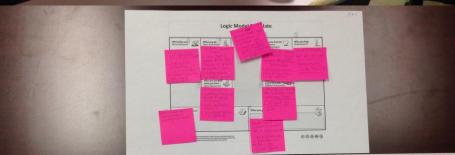


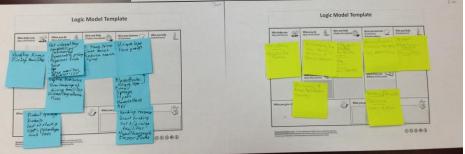


Knowledge that will change your world

Business School Faculty









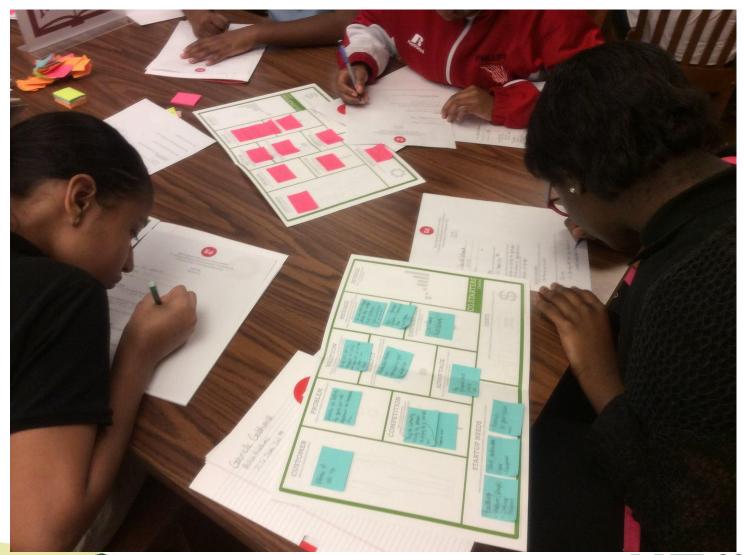
Research Coordinator Training







8th Graders Innovating at Phillips Academy





Daddy's Pooh Pooh (Web-Based Morning Show for Kids)



https://www.linkedin.com/pulse/what-my-7-year-old-taught-me-entrepreneurship-anthony-c-hood-ph-d?trk=prof-post

