



# ***Background***

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Aviation & space research with emphasis on communication and training

- ◆ **CRM and Facilitated Debriefing**
- ◆ **Monitoring and Challenging**
- ◆ **Team Training Study**
  - **Team Adaptation and Coordination Training (TACT)**



# ***Team Adaptation and Coordination Training (TACT)***

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## **Goals**

- **Improve teamwork skills**
  - **Team coordination & ability to adapt to changing situations**
- **Teach strategies to manage increased communication and coordination**
  - **Necessary during high workload and stress**



# ***Primary Impediments to Achieving Team Performance Goals***

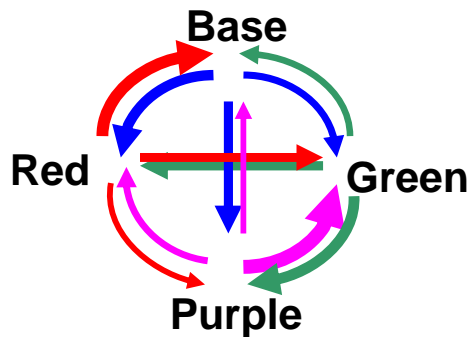
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- ◆ **Lack of shared team situation awareness**
  - Aviation accidents
- ◆ **Lack of effective monitoring and challenging skills**
  - First Officers less likely to challenge high face threat errors, even when risk was high
- ◆ **Lack of effective teamwork and communication skills**
  - Cohesive teams have evenly distributed communication & more positive affect

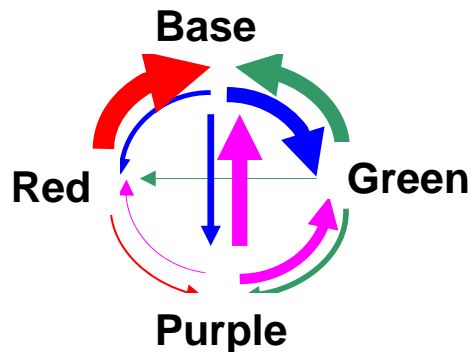


# Team Communication

## Cohesive Team



## Splintered Team



- ◆ Less variability in amount of talk
- ◆ Dyadic interactions more symmetrical
- ◆ Interactions involving 3 team members more likely
- ◆ Team members more responsive to each other



# Positive Interactions



- ◆ **More positive affect expressed**
  - Compliments
  - Encouragements
  - Endearments
  - Jokes
- ◆ **More assent relative to dissent**