

HPRnet Symposium 2017

Partner Presentation

Assoc/Prof. Daniel Gucciardi & Mr Philip Temby



A Dynamic and Temporal Perspective to Optimise Team Resilience

- ❑ Teams are critical to Army's capability; they form the basic building block of every activity during training and operations
- ❑ The collective capacity of teams to withstand or recover from adverse events that threaten their functioning, viability or development has intuitive and practical appeal
- ❑ Rich and diverse literature on individual level resilience (e.g., [Britt et al., 2016](#); [Kossek & Perrigino, 2016](#); [Pangallo et al., 2015](#))
- ❑ Research and theory on team resilience underdeveloped
 - piecemeal theoretical development, conceptual ambiguity, and methodological weaknesses
- ❑ Individual, **team** and organisational resilience (Army R&D Plan, 2016)
 - How can Army prepare teams to operate effectively in challenging operational conditions? How can Army build better team resilience?

Project Design

1 Research Questions

- What does team resilience look like in the Army?
- When does it matter for Army teams and why?
- How can Army facilitate team resilience?

2 Experimental Methodology

- Systematic review
- Reliability and validity of point of care assessment of salivary cortisol and α -amylase
- Agent-based modelling (ABM)
- Longitudinal observations of teams in lab/ field (e.g., surveys, GoPros, physiological indices)
- Data-prompted interviews and focus groups

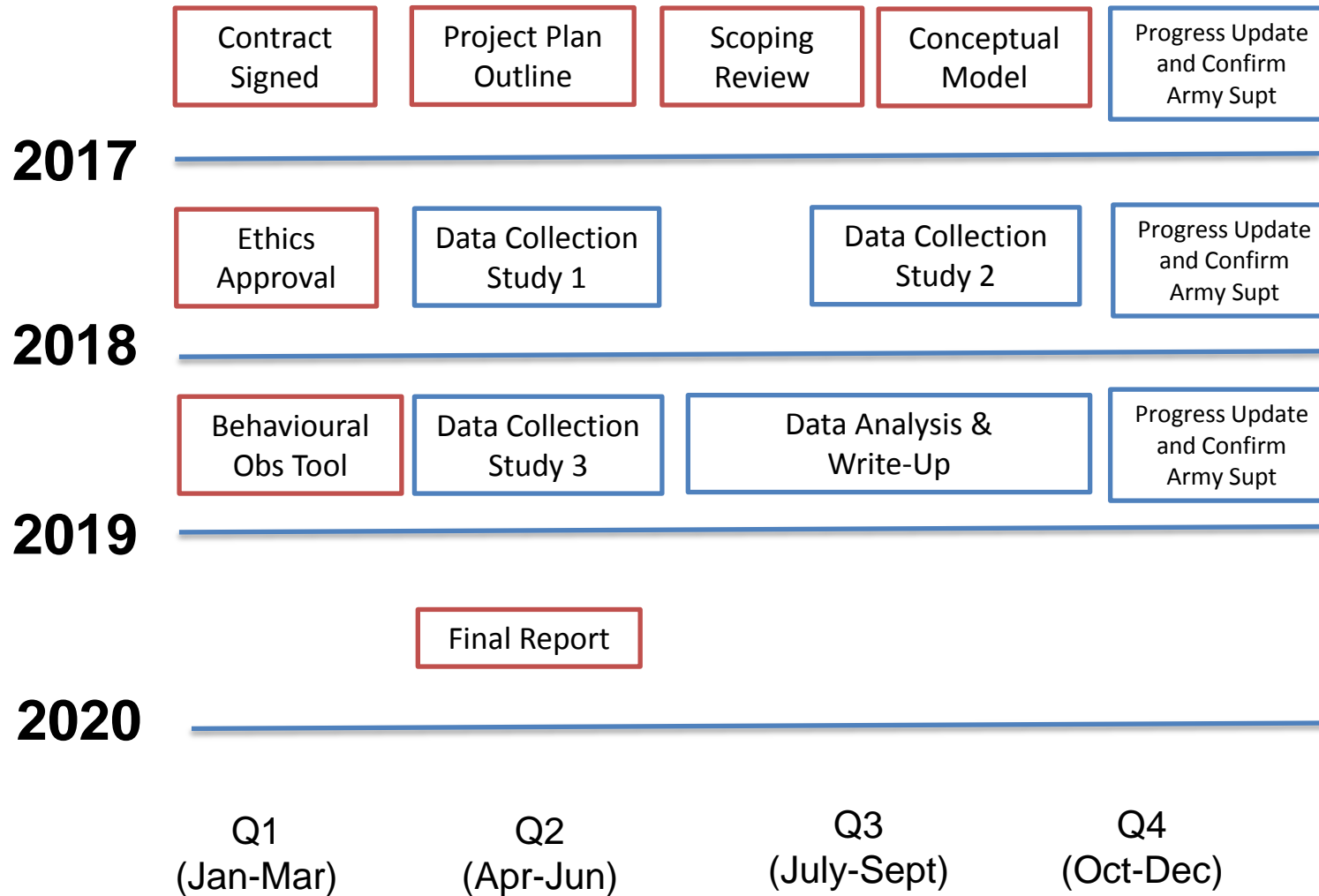
3 Deliverables

- Conceptual model of team resilience
- Scoping review of team resilience literature
- Behavioural observation tool
- Strategies to foster individual- and team-level factors that maximise team resilience

4 Timelines

- Scoping review (completed & submitted)
- Conceptual paper (completed & submitted)
- iPRO reliability and validity study (completed, data analysis)
- ABM simulations (~ Oct 2018)
- Field and/or lab studies (TBD)

Timelines



Activity

Deliverable

Progress, challenges & opportunities

□ Progress

- Conceptual model of team resilience (completed and submitted)
- Scoping review of team resilience literature (completed and submitted)
- iPRO reliability and validity study (completed, data analysis)
- PhD student (Mike Chapman) candidacy
- Negotiations with Army underway to identify data collection opportunities

□ Challenges

- Lack of clarity regarding Army perspective on the 'problem statement'
- Access to Army units to discuss project and obtain buy-in
- Data collection timings need to be synchronised with Army training schedules
- Longitudinal observation designs – sample size, drop-outs, intact teams
- Managing unit expectations about outcomes (e.g., not delivering resilience training)
- Unavailability of a dedicated Army liaison officer/point of contact in planning phases
- Ensuring sufficient 'adversity' in environment to study team resilience emergence

□ Opportunities

- Plenty of Army units to choose from; AHQ guidance to focus on Combat Corps
- Other opportunities will become clearer once we have confirmed partners within Army