# High Quality Pitt-Crew CPR: Doing the Ordinary Extraordinarily Well





# Christopher Crotty, M.B.A., Roberto Portela, M.D., Stephen Taylor, MHS Brody School of Medicine

## BACKGROUND

- \*Quality of CPR performed after cardiac arrest strongly correlates with patient outcomes
- \* First responders in Pitt County, NC lack a field guide to help ensure high quality CPR is delivered

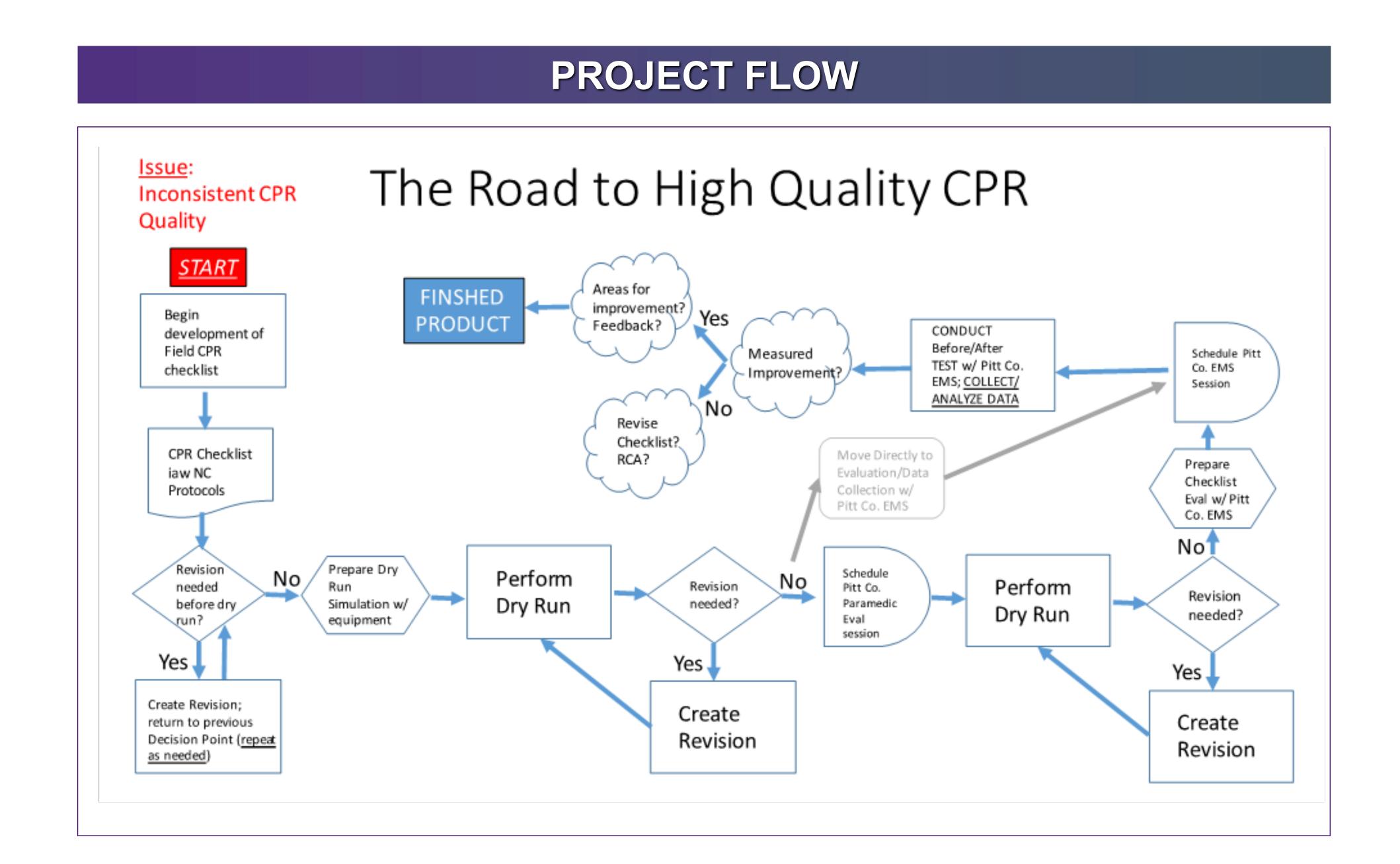
## PROJECT AIM

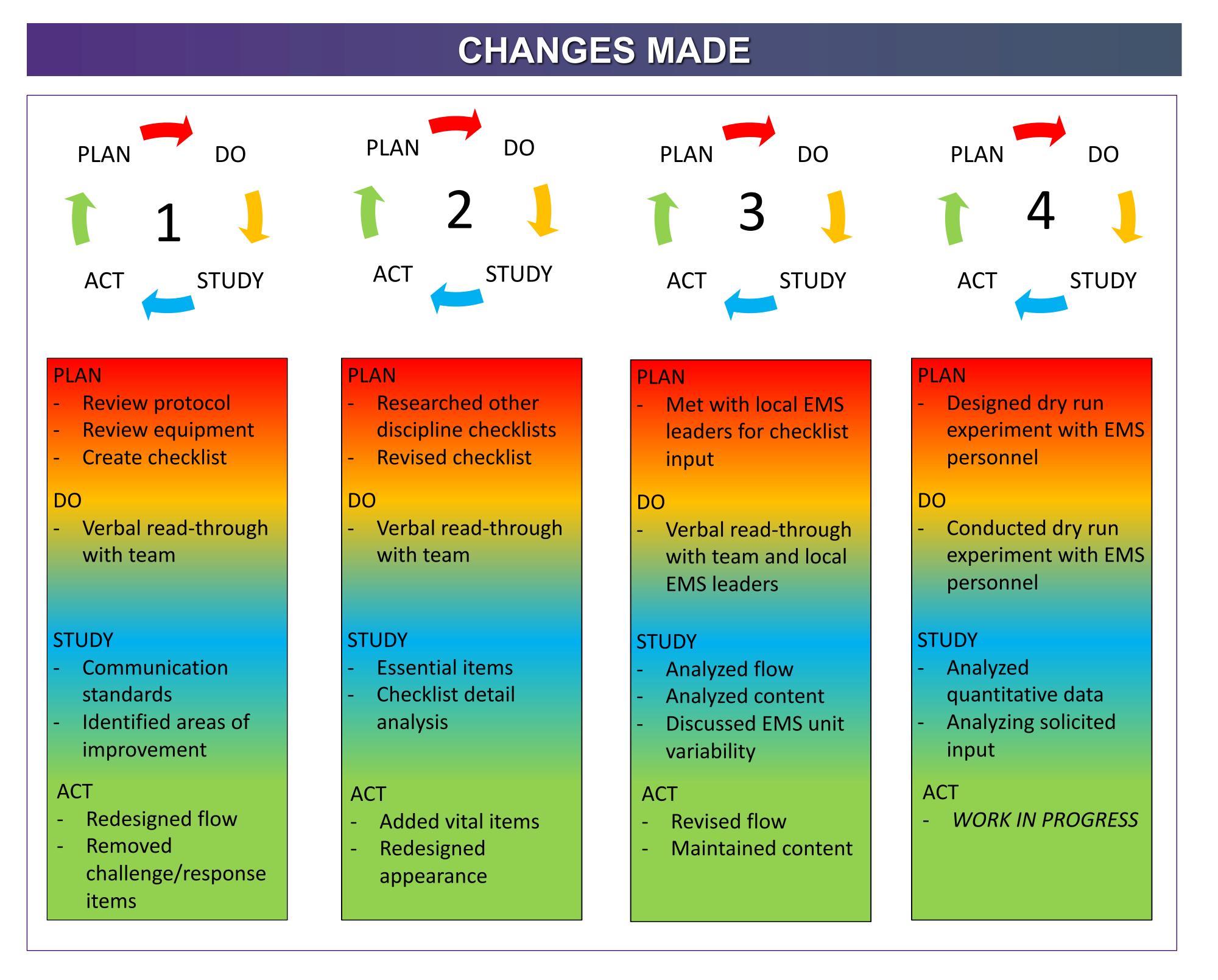
Global Aim: Improve field cardiac arrest mortality outcomes by 20% in Pitt County, NC within the first year of checklist implementation

Specific Aim: Train 100% of Pitt County, NC EMS first responders in using the approved Pitt County, NC Pit-Crew CPR checklist and create a sustainable training plan to allow new first responders to train and practice with the checklist

# PROJECT DESIGN/STRATEGY

- 1. Research current state
  - A. What is currently being used?
  - B. What has been used if anything?
- 2. Research checklist possibilities
  - 1. Study checklist models
  - 2. Evaluate current protocols
- 3. Design checklist
  - 1. Focus on ease-of-use and vital information
  - 2. Several cycles of team feedback on drafts
- 4. Bring checklist to field for testing and feedback
  - 1. Evaluate checklist effectiveness
  - 2. Identify strengths/weaknesses
  - 3. Solicit feedback





# OUTCOMES

Time spent within correct CPR parameters

2018 Pitt County Performance Data

Depth	Rate	Combined
36.1%	55.2%	21.8%

Test Group Dry-Run without checklist\*

Depth	Rate	Combined
64.7%	48.1%	36.4%

Test Group Dry-Run with checklist\*

Depth	Rate	Combined
70.8%	72.6%	54.5%

\* Identical test group given checklists/instruction in-between sessions
Checklist many areas including:

- Ventilation rate/volume
- EtCO2 monitoring
- Compressor switching

# **NEXT STEPS**

- 1. Finalize formatting
- 2. Distribute to all Pitt County EMS units
- 3. Incorporate checklist into all Pitt County EMS units' response kits and training plans
- Finalize and implement feedback tool for continuous checklist improvement

#### ACKNOWLEDGEMENTS

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Christopher Crotty, M.B.A.
LINC Scholar
Brody School of Medicine
Greenville, North Carolina 27858
252-702-3406
chriscrotty@live.com