# Dairy Subgroup #3:
## Research Needs,
## Including Enteric Fermentation


## Committee Membership Breakdown

**CO-CHAIRS**
- Paul Sousa (Western United Dairymen)
- Robert Parkhurst (Environmental Defense Fund)
- Michael FitzGibbon (California Air Resources Board)

12 Subgroup committee members consist of representatives from:
- Dairy industry
- Academia
- Environmental justice
- Conservation groups
- Technology and fabrication industry
- Local, state, and federal agencies

With expertise covering topics such as:
- Water quality
- Air quality and emission impacts
- Chemistry and biology of effluents
- Dairy operation and engineering
- Public policy, health, and advocacy

# Subgroup #3 Mission Statement

- Identify dairy research projects that improve our knowledge on:

The accuracy of the measurement of greenhouse gases (especially methane) and other air pollutant emissions from California dairies

The potential greenhouse gas emission reductions and air quality impacts from the implementation of methane mitigation strategies

Enteric fermentation emissions (including short- and long-term impacts potential reduction measures could have on dairy product quality and consumer acceptance, animal health and welfare, dairy economics, water quality, and air quality)

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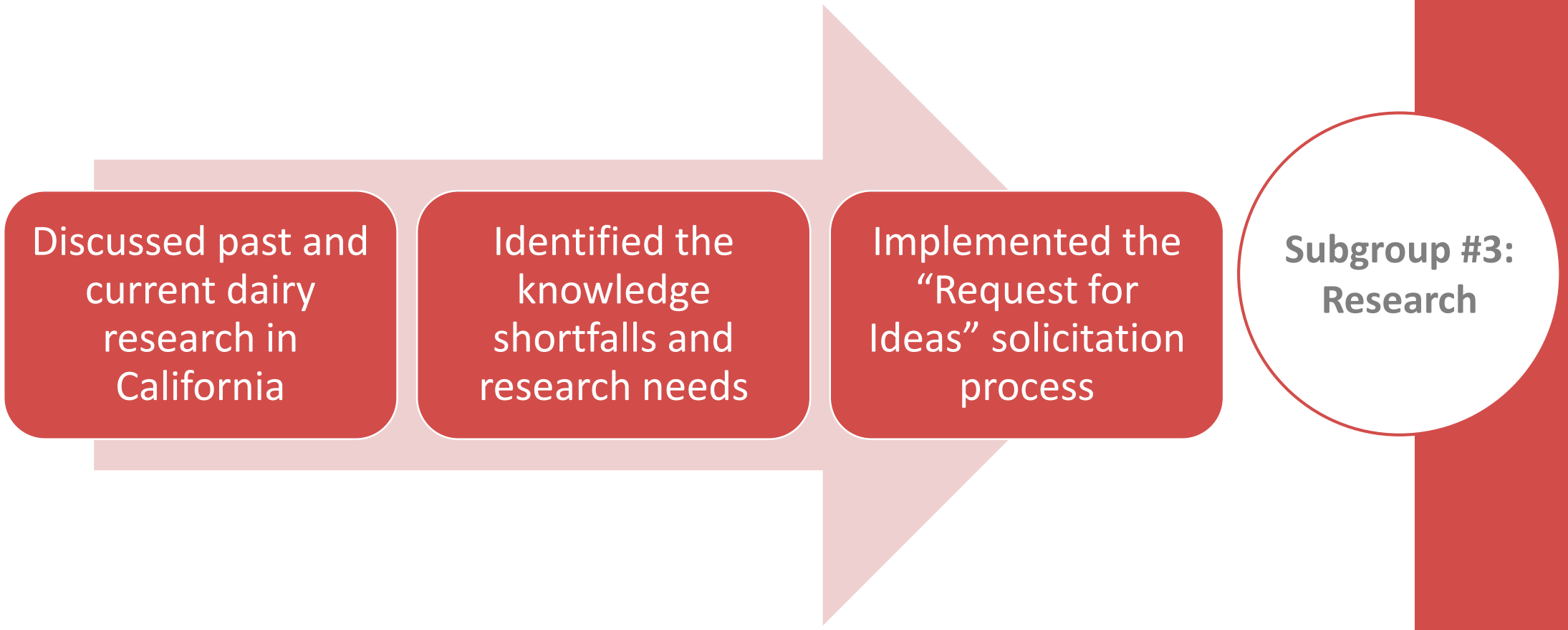
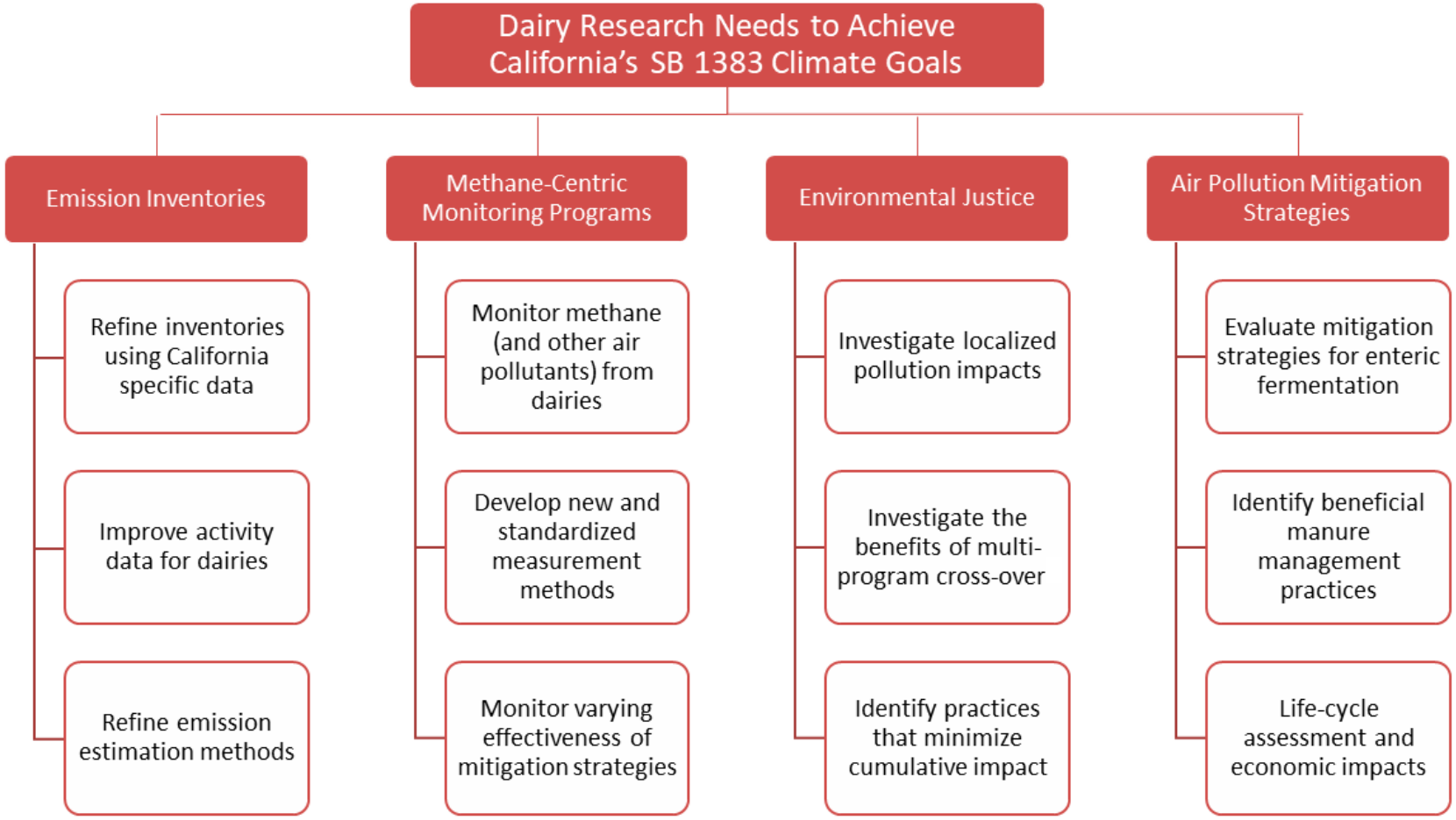
# Stakeholder-driven Processes



# Final Recommendations for Future Dairy Research

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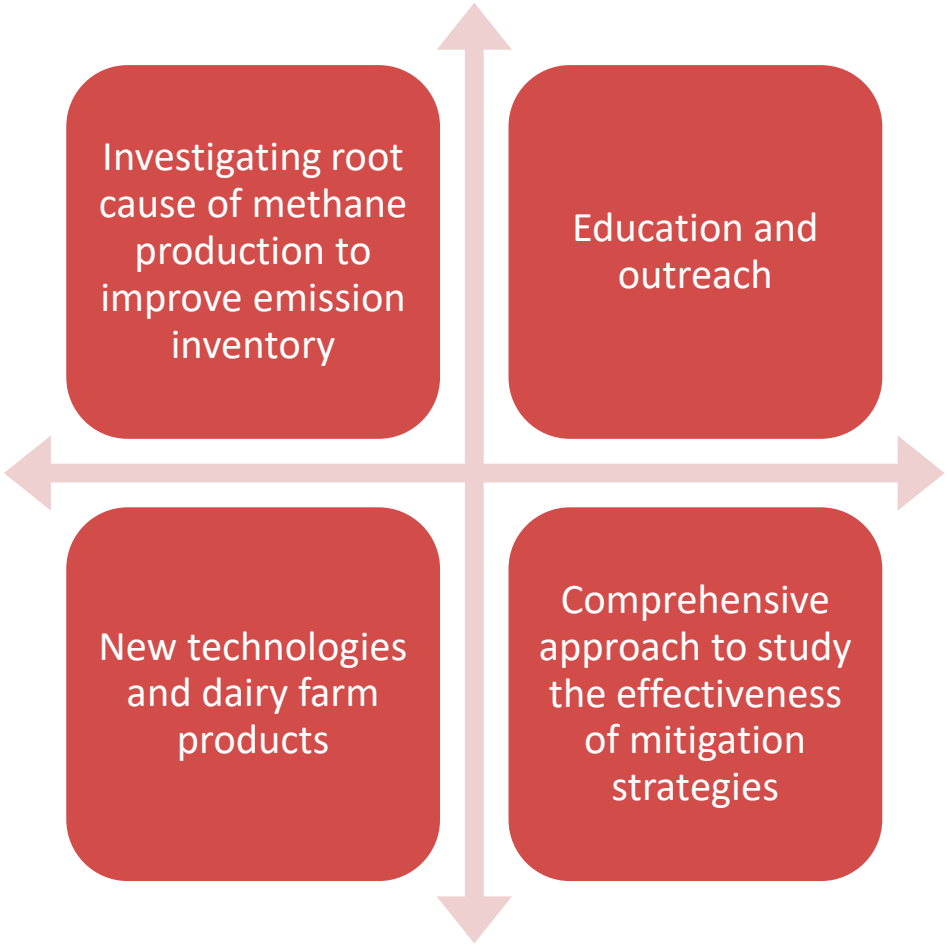
# Other Recommendations from Stakeholders

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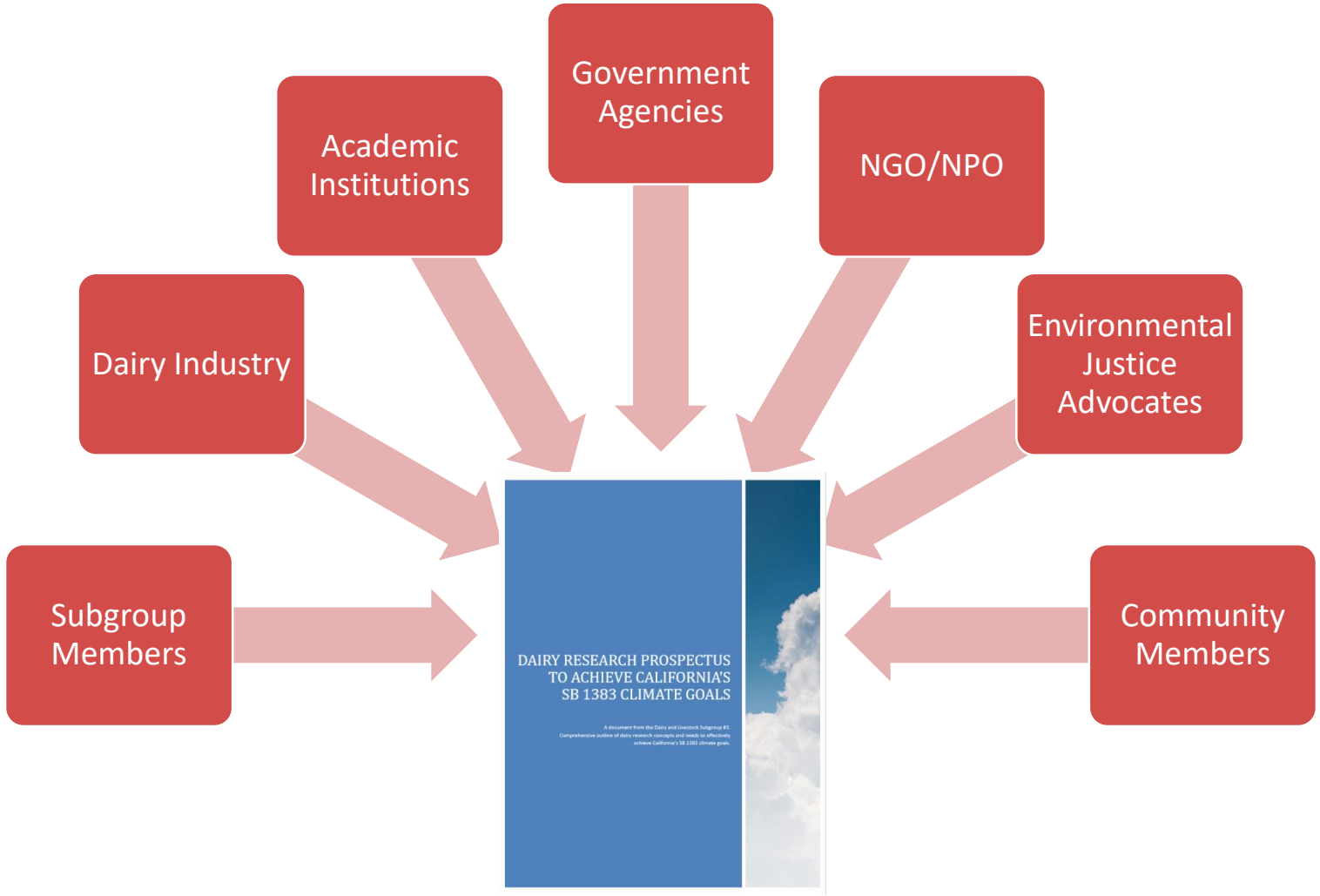
# Dairy Research Prospectus to Achieve California's SB 1383 Climate Goals




**Subgroup #3: Research**

https://arb.ca.gov/cc/dairy/dsg3/dsg3_final_dairy_air_research_prospectus_11-26-18.pdf