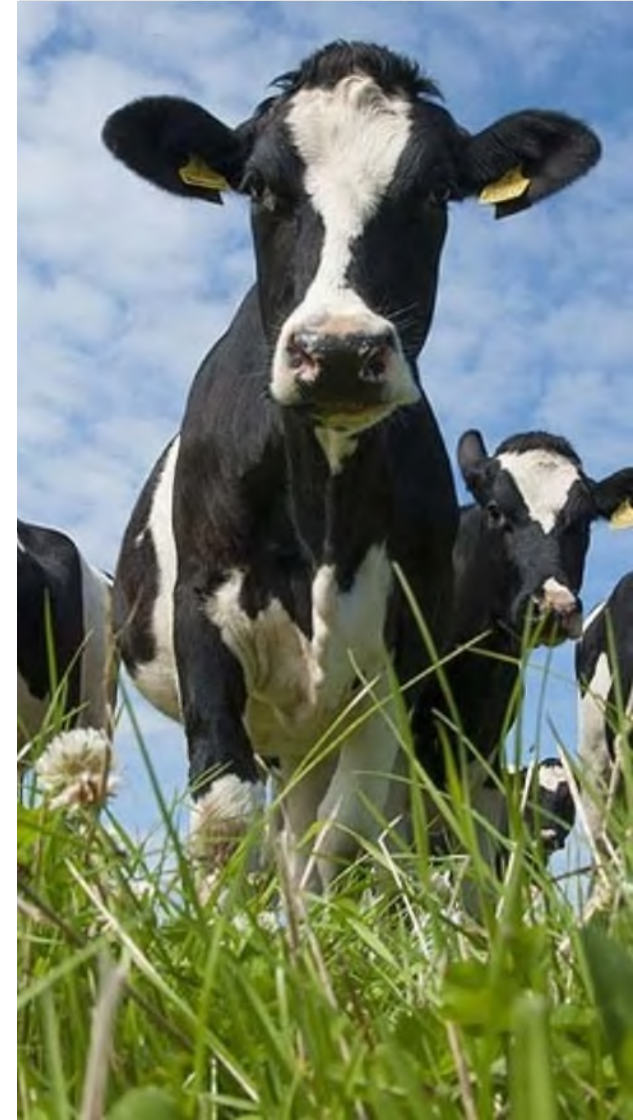


Request for Idea (RFI) Process

Dairy and Livestock Subgroup #3

April 9, 2018



Background: Purpose and Goal of Subgroup #3



The main purpose of Subgroup #3 is to prioritize dairy research projects that improve our knowledge on:

- The accuracy of greenhouse gas (GHG) and other air pollutant emissions from California dairies
- The potential GHG emission reductions and air quality impacts (positive and negative) from 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)

By the end of 2018, Subgroup #3 will develop a **Dairy Air Research Prospectus** to help guide California's funding agencies and organizations prioritize future research projects

Background:
Previously
Identified
Knowledge
Shortfalls and
Research Needs



To effectively achieve SB 1383's SLCP emission reduction targets, there is a need to:

- Assess localized air pollution issues associated with dairies, especially in **environmental justice** communities
- Develop a long-term dairy greenhouse gas (GHG) and air monitoring program to **quantify methane emissions and track reduction progress**
- **Improve emission inventories** (e.g., methane, ammonia, etc.) using California-specific data
- Regional GHG and AQ modeling to evaluate **short- and long-term benefits of air pollution mitigation strategies**

Developing Dairy Air Research Prospectus: RFI Solicitation Process



- WHO:** Dairy and Livestock Subgroup #3
- WHAT:** Initiate RFI solicitation, **open to all community members, researchers, government agencies, industry, etc.**
- WHEN:** Starting on **March 15, 2018**; Ending on **May 31, 2018**
- WHERE:** “RFI Submission Docket” is opened on CARB Dairy and Livestock Subgroup #3 website:
<https://www.arb.ca.gov/cc/dairy/dsg3/dsg3-rfi.htm>
- WHY:** To develop a **Dairy Air Research Prospectus**: a comprehensive list of dairy air research ideas that align with the four knowledge shortfalls and research needs identified by Subgroup #3

Developing Dairy Air Research Prospectus: RFI Outreach



Dairy and Livestock Subgroup #3 Request for Ideas Docket has Opened

California Air Resources Board sent this bulletin at 03/15/2018 06:07 PM PDT

Having trouble viewing this email? [View it as a Web page.](#)



Request for Ideas (RFI) for Dairy Research

Subgroup #3 (Research Needs, Including Enteric Fermentation)

The Dairy and Livestock Subgroup #3 (Research Needs, Including Enteric Fermentation) is requesting RFI submissions to define research needs and knowledge shortfalls that can be addressed to facilitate the reduction of dairy and livestock methane emissions. All interested parties are invited to submit research ideas that can help California effectively achieve SB 1383 goal

RFI submissions will be pre-screened for completeness and appropriate content. Pre-screened submissions will be reviewed by Subgroup #3 committee members before they are drafted into a Dairy Air Research Prospectus. The completed prospectus will be used to provide recommendations for the most feasible research needed to address SB 1383 goals under each of the knowledge shortfalls identified previously by Subgroup #3.

Completed RFI Submission Forms are to be sent to SLCP@arb.ca.gov. The deadline to submit is **May 31, 2018 at 5:00 pm (PDT)**.

Interested parties are encouraged to learn more about the RFI submission process by visiting the Subgroup #3 website.

Disclaimer: There are no intentions from any partners or affiliations in awarding a contract for funding based on RFI submissions, and participation in this RFI solicitation process does not translate to future funding, nor lack thereof.

Developing Dairy Air Research Prospectus: RFI Submission

Submissions and Questions:

SLCP@arb.ca.gov

Request for Ideas (RFI) Submission Docket



Guide to Completing an RFI Submission

- **Name and Contact Information:** This information is required for the RFI submission. Personal and organizational information will be used by the pre-screening committee to contact the submitter for any clarification needed on the RFI submission. Personally identifiable information will NOT be included in the Dairy Air Research Prospectus document.
- **Category:** Dairy and Livestock Subgroup #3 identified **four knowledge shortfalls and research needs** that will help California effectively achieve the goals of SB 1383. The RFI submissions must fall into one or more of the four categories listed in the submission form. This will allow the appropriate review committee to evaluate the RFI submission.
- **Research Title:** A concise title describing the content of the RFI submission.
- **Overview:** An overview of the proposed research. The overview should also answer the following questions:
 - What is the motivation behind this proposed research and why is it so important?
 - What questions will the proposed research answer?
 - What exactly is being studied?
 - What will be the approach/method used to conduct this research?
 - What are the expected results?
- **Limitations, Pitfalls, and Obstacles:** Description of problems that the research team(s) may have to overcome to get meaningful results (e.g., seasonal/diurnal variability, generalizability of results to other dairies, access to dairies, etc.) Please include potential solutions to any of these foreseeable issues.
- **Estimated Duration and Justification:** The time required for completing the research and a brief description of the justification for that timeframe (including any research preparation, data collection/analysis, and reporting).
- **Cost Estimate and Justification:** The estimated range of the cost required to conduct and complete the proposed research and the justification behind the cost figures (including any research preparation, data collection/analysis, and reporting).

RFI Submission Form →

Please send completed RFI Submission Forms to SLCP@arb.ca.gov by **May 31, 2018 at 5:00PM (PDT)**

For additional details on the RFI submission process, please refer to the following document:

[RFI Submission Guidelines](#)

DAIRY AND LIVESTOCK SUBGROUP #3 RESEARCH NEEDS, INCLUDING ENTERIC FERMENTATION

Request for Ideas (RFI) Form

Participants are encouraged to read the supplementary document (RFI Submission Guidelines).

CONTACT INFORMATION	
Name:	Date:
Affiliation:	
Phone:	E-mail:
KNOWLEDGE SHORTFALL CATEGORIES	
Categories Under RFI Submission (check only those that apply):	
<input type="checkbox"/> Environmental Justice (Localized air pollution issues associated with dairies, particularly in disadvantaged communities)	
<input type="checkbox"/> Air Monitoring Programs (Long-term dairy GHG and air monitoring programs to track methane mitigation progress)	
<input type="checkbox"/> Emission Inventories (Using California-specific data)	
<input type="checkbox"/> Air Pollution Mitigation Strategies (Regional GHG and air quality modeling to evaluate short and long-term benefits of strategies)	
RFI CONTENT INFORMATION	
Research Title:	
Overview (<i>limit to 1000 characters</i>):	
Research Methodology (<i>limit to 500 characters</i>):	
Limitations, Obstacles and Pitfalls (<i>limit to 500 characters</i>):	
Estimated Duration/Timeline of Research (<i>e.g. 10 months</i>):	
How the Duration/Timeline of Research was estimated (<i>limit to 500 characters</i>):	
Estimated Cost of Research (<i>e.g. \$400,000</i>):	
How the Cost of Research was estimated (<i>limit to 500 characters</i>):	

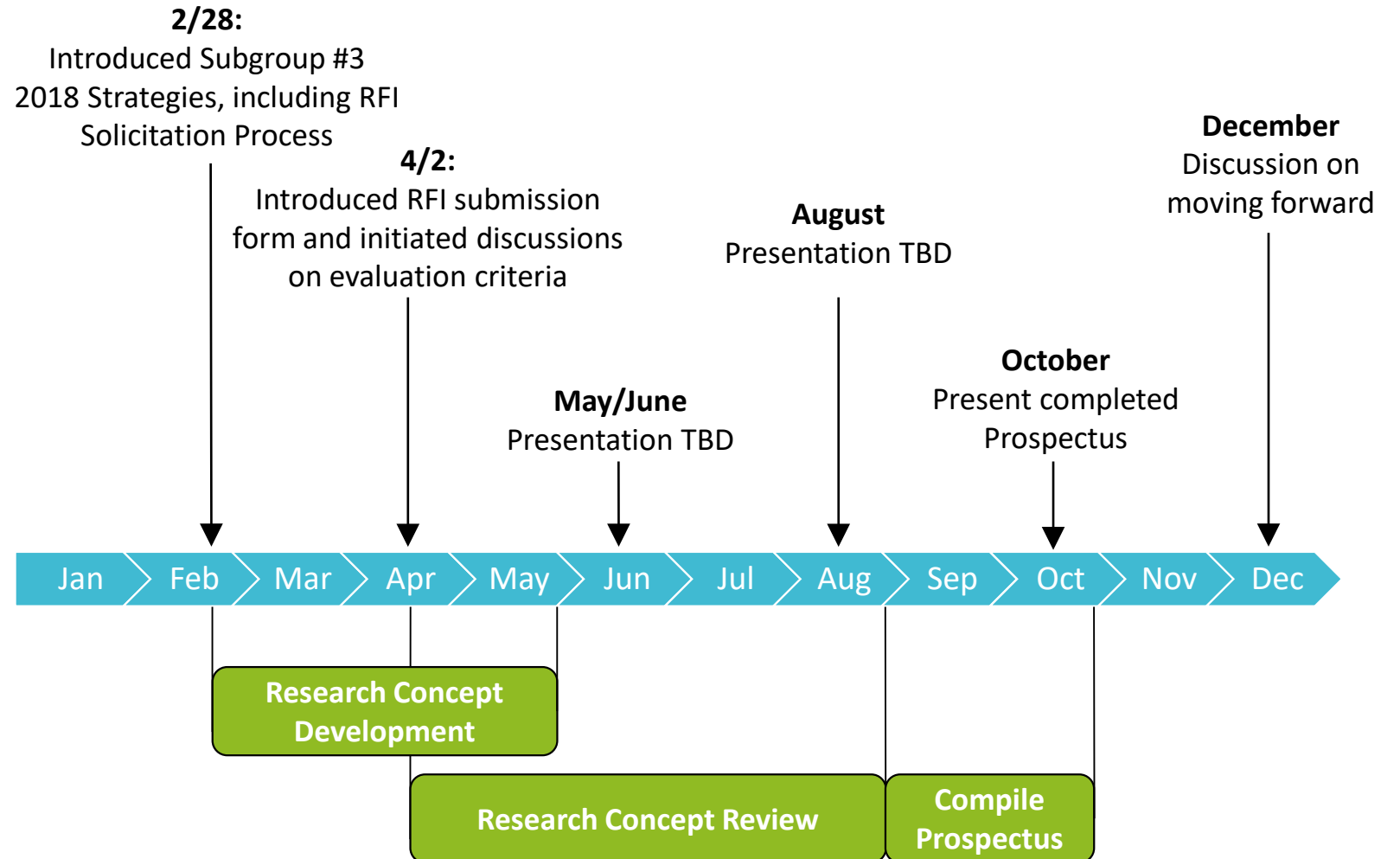
Please fill out all sections of the form and email the complete document to SLCP@arb.ca.gov by **May 31st, 2018 at 5 PM PDT.**

Developing Dairy Air Research Prospectus: RFI Submission Review



- The RFI submissions will first be reviewed for completeness and appropriate content
- Any inappropriate submission or those that do not meet the requirements will be removed
- The RFI submissions will be further reviewed and evaluated by Subgroup #3 co-chairs and committee members using the following criteria:
 - Air Impact
 - Industry Impact
 - Policy/Regulation/program Relevance
 - Feasibility

Completing Dairy Air Research Prospectus



Questions on RFI Process



RFI Submission Process:

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Research Division
California Air Resources Board
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RFI Submission Web Support:

Joshua Kim
Industrial Strategies Division
California Air Resources Board
Joshua.kim@arb.ca.gov

RFI Submission Review Process:

Toshihiro Kuwayama
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California Air Resources Board
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