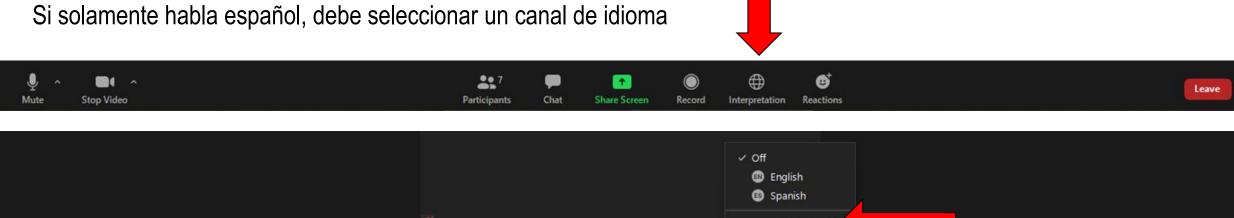


## Welcome, Instructions for Zoom Bienvenidos, Instrucciones para Zoom

We have two language audio channels available. English only speakers, please select English.



₩

0 Reactions

The meeting will have simultaneous interpreting, so you are welcome to comment in your native language. La junta será interpretada simultáneamente, así que le invitamos a que haga comentarios en su lenguaje nativo.

## Agenda

- 1. Call to Order and Welcome
- 2. Roll Call
- 3. Approval of Meeting Minutes
- 4. Public Comment
- 5. 2024 Rural Communities Water Managers Leadership Institute Introduction (Self-Help Enterprises)
- 6. Reports
- 7. Discussion about 1/23/24 Merced County Board of Supervisors Meeting Considering Amendment to Merced County's Groundwater Ordinance Export Policy
- 8. Inelastic Land Subsidence Discussion
- 9. Minimum Data Standards for Groundwater Levels
- 10. Next Steps and Adjourn



## Coordination Committee Roll Call

Representative	GSA	
Hicham ElTal	Merced Irrigation-Urban GSA	
Scott McBride	Merced Irrigation-Urban GSA	
Justin Vinson	Merced Irrigation-Urban GSA	
Daniel Chavez	Merced Irrigation-Urban GSA	
Ken Elwin (alternate)	Merced Irrigation-Urban GSA	
Mike Gallo	Merced Subbasin GSA	
Nic Marchini	Merced Subbasin GSA	
Eric Swenson	Merced Subbasin GSA	
George Park (alternate)	Merced Subbasin GSA	
Kel Mitchel	Turner Island Water District GSA #1	
Tim Allan (alternate)	Turner Island Water District GSA #1	







# **Approval of Meeting Minutes**

- May 24, 2023
- September 18, 2023
- November 29, 2023





### **Questions/Comments from Public:**

For remote attendees, If you would like to make a comment, please type the comment in the chat or raise your hand to request to be taken off mute





# 2024 Rural Communities Water Managers Leadership Institute Introduction (Self-Help Enterprises)





Sue Ruiz Adriana Becerra

**SELF HELP ENTERPRISES** 

### INTRODUCTION

SHE has been preparing and delivering Leadership Institutes in the Central Valley since 2013, increasing the capacity of rural community leaders to ensure their communities have safe and reliable water sources.

LI graduates are *ready* to more intentionally and eff ectively engage in regional water management decision making processes.

Water agencies are required to conduct "community engagement".

It's time to bridge the gap between community voices and their agencies.

Community Engagement Leadership Institute 2024 will provide tools, space, and place for this to take place.



Learn with and from each other
Define our common goal
Achieve it

### LI GOALS

- Increase community leaders' knowledge about water sources and management in their region
- Increase water management agencies' knowledge and ability to connect with their communities
- Develop working relationships between communities and the agencies who managetheir water
- Increase sustained community engagement in the water management decision making processes

### COMMUNITY ENGAGEMENT LI 2024

	Spring	Summer	Fall
March 16 9:30-3:30	Water Leaders Kick Off The players, what they do, and why engage		
April 19 9:30-3:30	Water 101 UC Merced Vernal Pools		
May 17 8:00-5:00	Spring Watershed Tour From the source tothe Valley		
June thru August		Focus Groups Individual communities and agencies engaged	
September TBD 9:30-3:30			Working together Consensus Building toward aspecific project or goal
October TBD 8:00 -5:00			Fall Watershed Tour Water usein the Valley
November TBD			Wrapping Up/Graduation Agency & CommunityPlan

### Define Community

Neighbors, friends, family

Not always geographic; can be around a specific/topic or goal

Common lived experiences

The SJV!!!!

### Define Engagement

Empowered voices in the space created Putting yourself in others' shoes Teaching and learning together Working together for a common cause

### Challenges

Communities:

Language barriers

Uncomfortable "formal" spaces/

Lack of technical knowledge

Agencies:

Knowing who to connect with and how

Lack of data to provide real/solutions

Getting people to respond/éngage

Unrealistic guidelines imposed on available services

# FROM THEIR VOICES.... COMMUNITY AND AGENCY MEMBERS......

### **Potential Solutions**

#### Communities:

Paid part time Community Navigators

Develop community member skills that already exist in the community

Create *informed* advocacy at the community level

Develop *partners* not just recipients of services and grants

### Agencies:

Recognize this is something we have to do...and do it

Engage people early in the processes (before actions)

Create safe physical, less formal, spaces

Partner with other agencies

Fund Community Navigators; point persons within communities

### THE PARTICIPANTS



Community Members



Agency Staff



NGO Staff



YOU!

### HOW TO BECOME INVOLVED

**PROMOTING** 

Flyers, Meetings, Word of mouth, Social

Media

SIGN UPS

Individual community members and agency members register on SHE website.

COST & STIPENDS

No cost to participants. Funded by various Federal and Foundational funders.

Community members can receive a Stipend.

COMMITMENT

Participants are expected to commit to ensure best relationship building, capacity building, and results.

LAUNCH

Apply on SHE's website:

https://bit.ly/ SHELeadershipIn stitute



### SUMMARY

The majority of San Joaquin Valley residents desire to preserve the Agriculture based way of life we value. Rural community leaders want to engage with those making decisions about life sustaining water.

Community Engagement Leadership Institute 2024 is a first-time opportunity for Community members and Agency members to come into a "safe place and space" to collectively identify common goals and a path to reach those goals.

Recruitment and engagement of the right participants is key.

Both community members and agency members must sacrifice and commit to make this happen. But it will be worth it.

## THANK YOU

Sue Ruiz

<u>Suer@selfhelpenterprises.org</u>

559/802-1687

Adriana Becerra

adrianab@selfhelpenterprises.org

559/237-4262



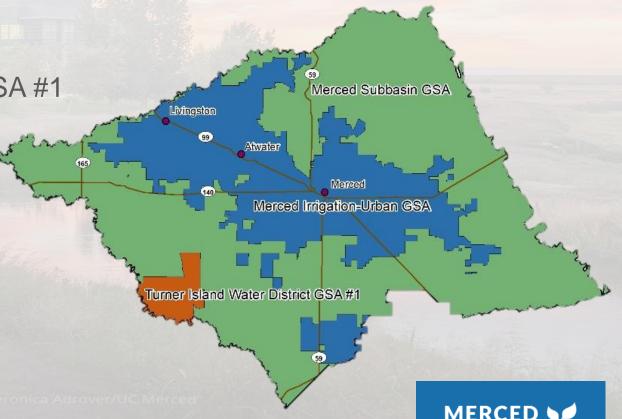
# **GSA** Reports

Updates from each GSA on activities they are undertaking in their own jurisdiction:

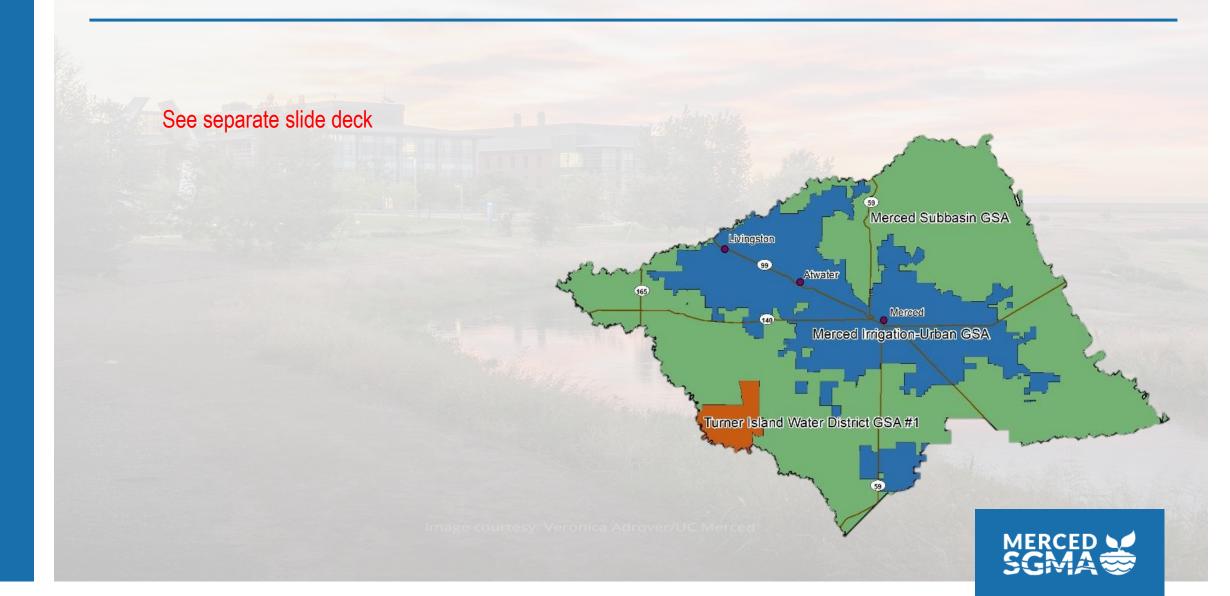


Merced Irrigation-Urban GSA

Turner Island Water District GSA #1



# **Current Conditions Report**





Discussion about 1/23/24 Merced County Board of Supervisors Meeting Considering Amendment to Merced County's Groundwater Ordinance Export Policy

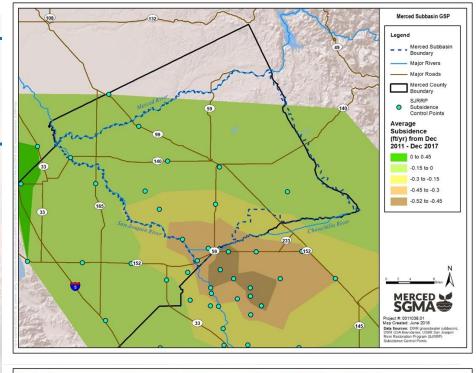


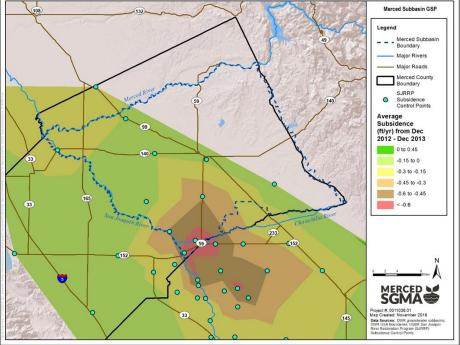




### **Land Subsidence Conditions**

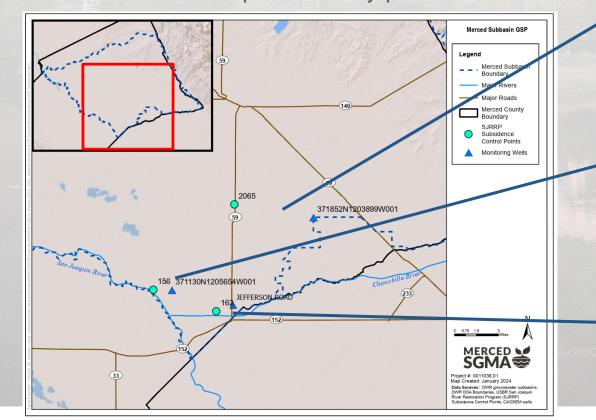
- Subsidence has been observed in the southwestern portion of the Subbasin near the San Joaquin River
- Subsidence averaged 0.45 feet annually (December 2011 – December 2017), with the greatest rates observed during periods of drought
- MORE RECENT SUBSIDENCE
  - Dec 2017 Dec 2022: 0.28 ft/year
  - Dec 2021 Dec 2022: 0.42 ft
  - July 2022 July 2023: 0.08 ft
- No undesirable results have been reported; however, impacts were observed along the Eastside Bypass and within El Nido



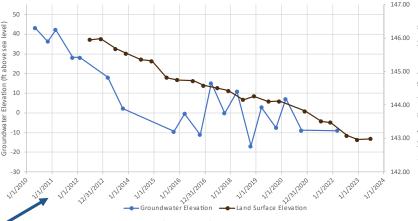


# Land Subsidence Conditions (cont.)

- Mixed relationship between groundwater levels and subsidence
- Groundwater level rise is expected to minimize subsidence, however it is not anticipated to fully prevent subsidence



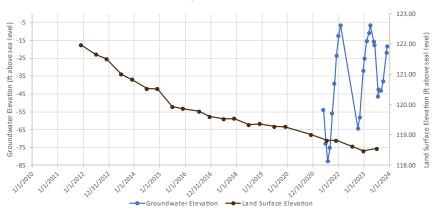
#### CASGEM ID: 13120 (Voluntary), SITE ID: 371852N1203899W001 PT: 2065: GPS Stn: W938 RESET



#### CASGEM ID: 13117 (Voluntary),SITE ID: 371130N1205654W001 PT: 156; GPS Stn: W990 CADWR



#### STN ID: JEFFERSON ROAD PT: 162; GPS Stn: RBF 1057



# Subbasin Land Subsidence Conditions – Sustainable Management Criteria

- Undesirable Result Definition: Significant and unreasonable reduction in the viability of the use of infrastructure over the planning and implementation horizon of this GSP. Land subsidence that substantially interferes with surface land uses causes damage to public and private infrastructure (e.g., roads and highways, flood control, canals, pipelines, utilities, public buildings, residential and commercial structures).
- Minimum threshold: 0 ft/yr (uncertainty measurement of ±0.16 ft/yr would be compliant)
- Measurable Objective: 0 ft/yr
- Interim Milestones:
  - 2025: 0.75 ft/yr
  - 2030: 0.5 ft/yr
  - 2035: 0.25 ft/yr



# DWR Evaluation of Approved GSP - Recommended Corrective Actions

- (3a) The GSAs should identify the total cumulative subsidence tolerable by critical infrastructure. The Plan should also include additional details describing measures that consider and disclose the current and potentially lasting impacts of subsidence on land uses and groundwater beneficial uses and users.
- (3b) The GSAs should revise its application of the level of uncertainty as it relates to subsidence measurements according to standard professional practices. Establishment of sustainable management criteria should not allow for subsidence in perpetuity.



### Considerations for SMC Modifications

- GSP was approved.
- Recommended Corrective Actions are important; however, we feel the approach in the GSP satisfies SGMA requirements and revisions to the Amended GSP are expected to be relatively minor
- Build upon previous work where possible. Avoid dramatic changes in approach unless warranted to allow focus on implementation rather than planning
- Chose simplicity where possible, complexity when necessary
- Push back where appropriate, based on local planning needs and SGMA regulations



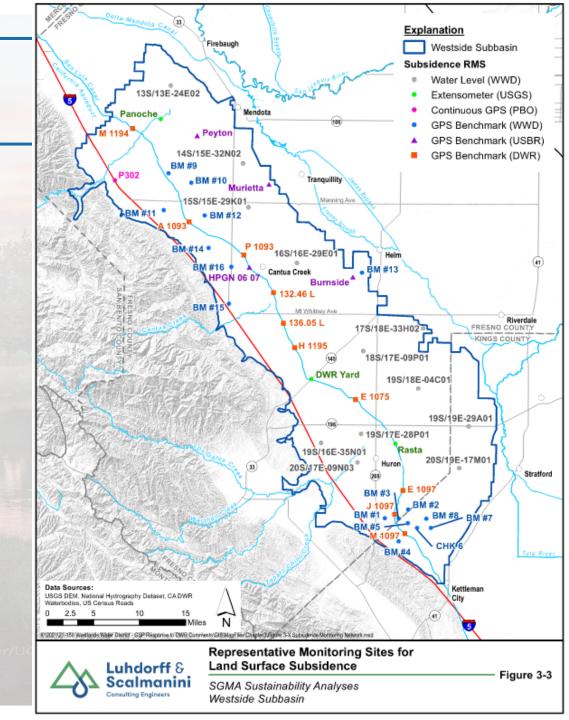
## Subsidence SMC Options

- Use existing approach, refined to clarify potential impacts of subsidence and treatment of uncertainty
- Modify approach, considering approaches from other subbasins. Examples today:
  - Westside Subbasin
  - Kings Subbasin
- Regardless of SMC approach, action will be required to stop subsidence



## Westside Subbasin Approach

- Split approach
  - Areas near sensitive San Luis Canal vs other areas
  - Subsidence monitoring and groundwater level monitoring
  - Subsidence rates and cumulative subsidence



## Westside Subbasin Approach

### Undesirable Result Definitions

- Adjacent to SLC: The annual rate of subsidence or compaction at three GPS benchmarks or extensometers exceeds the annual rate minimum threshold for two or more consecutive years and the cumulative total amount of subsidence or compaction at any GPS benchmark or extensometer exceeds the cumulative minimum threshold.
- Outside SLC: The annual rate of subsidence or compaction or water level at three GPS benchmarks, extensometers, or groundwater wells exceed the annual rate or water level minimum threshold for two or more consecutive years and The cumulative total amount of subsidence or compaction at three GPS benchmarks or extensometers exceeds the cumulative minimum threshold.

### Minimum thresholds

- Extensometers
  - Adjacent to SLC: 0.3 feet per year, 1.5 feet total
  - Outside SLC: 0.3 feet per year, 2.5 feet total
- Groundwater Levels
  - Adjacent to SLC: Lowest fall GW elevation during 2012-2016 drought
  - Outside SLC: Seasonal low (summer) GW elevation during 2012-2016\*



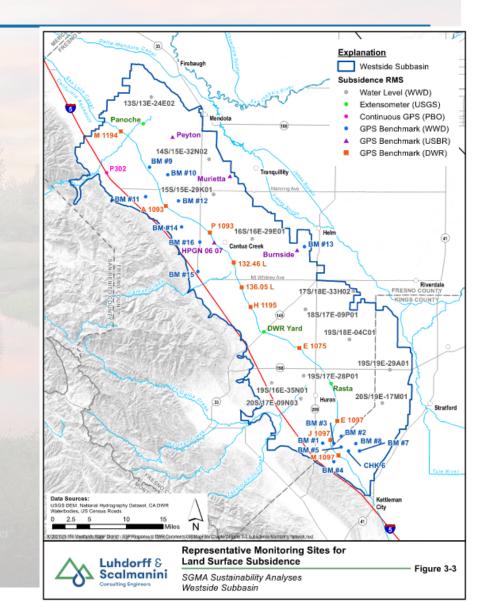
## Westside Subbasin Approach

### Measurable Objectives

- Subsidence
  - Adjacent to SLC: 0 ft/yr, 0 feet total
  - Outside SLC: 0.1 ft/yr, 0.5 feet total
- Groundwater Levels
  - Adjacent to SLC: Not used
  - Outside SLC: Equal to GWL sustainability indicator measurable objective for the same monitoring site

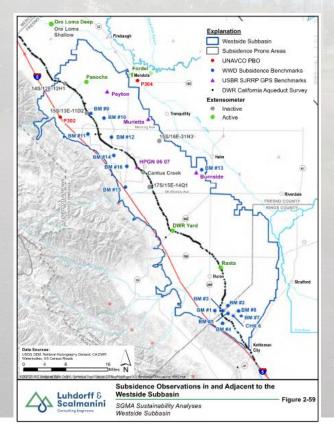
### Interim Milestones

- Subsidence
  - Adjacent to SLC: 0 ft/yr, 0 feet total
  - Outside SLC: 0.1 ft/yr, 0.5 feet total
- Groundwater Levels
  - Adjacent to SLC: Not used
  - Outside SLC: Equal to GWL sustainability indicator interim milestone for the same monitoring site



### Additional Actions Needed – Westside

- Additional actions recommended by DWR:
  - Revise the definitions of undesirable results related to subsidence rates to improve the spatial and temporal granularity to ensure that any localized increased rate of subsidence is identified
  - Add a discussion of the specific impacts to well casings, turnout structures, and roads and bridges because of subsidence that would constitute undesirable results.

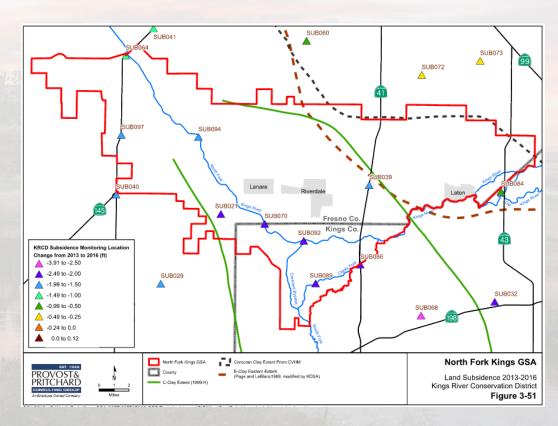






## Kings Subbasin Approach

- Undesirable Result Definition: The exceedance of the minimum threshold within a 36 square-mile area
- Minimum threshold: No more than 3 feet of cumulative subsidence
- Measurable Objective: 1 inch per year over
   36 square-mile area
- Interim Milestones: 1 foot of subsidence over a 5-year period





## Additional Actions Needed – Kings

- Additional actions recommended by DWR:
  - Better identify land uses and property interests that are likely to be affected by land subsidence and how these uses are incorporated into the minimum thresholds
    - Specify the infrastructure involved, demonstrate that 3 feet (or some other amount) of freeboard currently exists, and confirm that these users would not consider the loss of the existing freeboard would not substantially impact infrastructure use.
  - Justify how one feet of subsidence over a 36 square-mile area is an adequate trigger considering critical infrastructure is commonly impacted by subsidence occurring over a smaller area.



### Considerations for SMC Modifications

- GSP was approved.
- Recommended Corrective Actions are important; however, we feel the approach in the GSP satisfies SGMA requirements and revisions to the Amended GSP are expected to be relatively minor
- Build upon previous work where possible. Avoid dramatic changes in approach unless warranted to allow focus on implementation rather than planning
- Chose simplicity where possible, complexity when necessary
- Push back where appropriate, based on local planning needs and SGMA regulations



# Considerations for Merced – Recommended Corrective Action 3a

The GSAs should identify the total cumulative subsidence tolerable by critical infrastructure.

The Plan should also include additional details describing measures that consider and disclose the current and potentially lasting impacts of subsidence on land uses and groundwater beneficial uses and users.



# Considerations for Merced – Recommended Corrective Action 3a

The GSAs should identify the total cumulative subsidence tolerable by critical infrastructure.

Reiterate previous outreach to Reclamation. Reach out to Reclamation and other flood managers and transportation managers for comment.

The Plan should also include additional details describing measures that consider and disclose the current and potentially lasting impacts of subsidence on land uses and groundwater beneficial uses and users.



# Considerations for Merced – Recommended Corrective Action 3a

The GSAs should identify the total cumulative subsidence tolerable by critical infrastructure.

Reiterate previous outreach to Reclamation. Reach out to Reclamation and other flood managers and transportation managers for comment.

The Plan should also include additional details describing measures that consider and disclose the current and potentially lasting impacts of subsidence on land uses and groundwater beneficial uses and users.

- Include additional information on the observed impacts of subsidence on the Eastside Bypass (and El Nido, if information is available). Discuss potential future subsidence impacts.
- Provide further discussion on how groundwater level SMC will reduce long-term subsidence.



# Considerations for Merced – Recommended Corrective Action 3b

The GSAs should revise its application of the level of uncertainty as it relates to subsidence measurements according to standard professional practices. Establishment of sustainable management criteria should not allow for subsidence in perpetuity.



# Considerations for Merced – Recommended Corrective Action 3b

The GSAs should revise its application of the level of uncertainty as it relates to subsidence measurements according to standard professional practices. Establishment of sustainable management criteria should not allow for subsidence in perpetuity.

- Provide additional information on the Plan's rationale for establishing the measurement uncertainty as 0.16 ft/yr
- Include examples in amended Plan demonstrating how the uncertainty is incorporated into the minimum threshold





### Minimum Data Standards for Groundwater Levels





## What's coming up next?

- Adjourn to next meeting, proposed March 20, 2024 at 1:30pm
- Anticipated topics:
  - Updates to basin conditions, including, as appropriate:
    - incorporation of AEM data, recently collected groundwater level data, recently performed groundwater quality sampling, and consideration of refinement of the characterization of depletions of interconnected surface water.
  - Continued discussion on SMCs.



