



# WORLD CLIMATE RESEARCH PROGRAMME

*JSC-43<sup>rd</sup> Session of the WCRP Joint Scientific Committee*

*Detlef Stammer and Helen Cleugh (WCRP JSC Chair and Vice Chair)*



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# Session 1: Opening Session

- Opening and Goal of JSC-43 from JSC Chair and Vice-Chair [15 mins] (*D. Stammer, H. Cleugh*)
- Welcome from Co-sponsors [3 mins each]
  - *J Luterbacher on behalf of E. Manaenkova (WMO),*
  - *Mathieu Denis (ISC),*
  - *V. Ryabinin (IOC, by pre-recorded video)*
- Welcome on behalf of WCRP Secretariat [5 mins] (*M. Sparrow*)
- Approval of Agenda [5 mins] (*D. Stammer, H. Cleugh*)
- Guidelines for running JSC-43 via videoconference [6 mins] (*M. Sparrow*)

**Chair:** Detlef Stammer

**Rapporteur:** Narelle Van der Wel

**Chat Moderator:** A. Caltabiano



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# Opening by Chairs

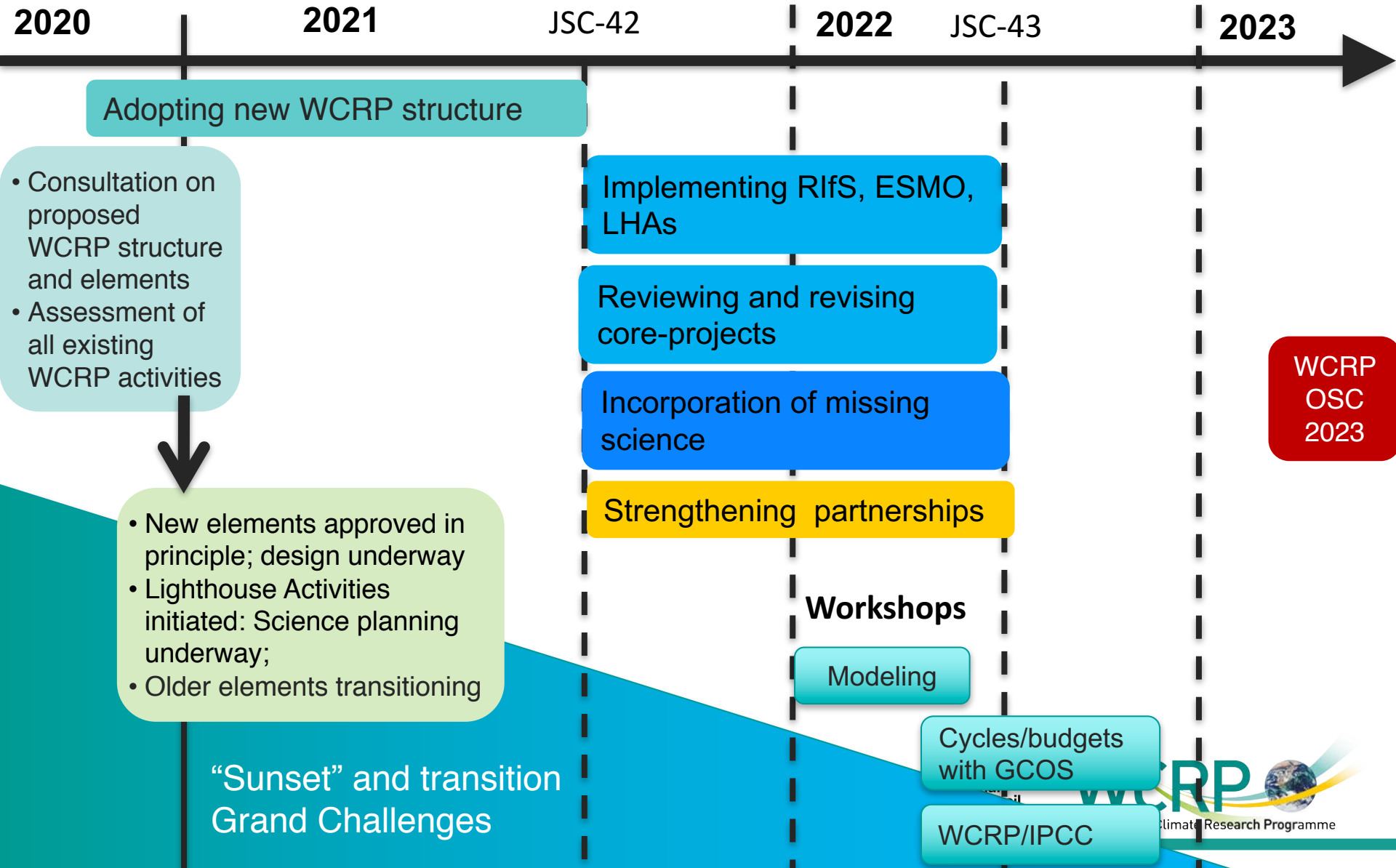
## ***Welcome to this JSC-43 session***

- It marks the end of the transition to the new WCRP structure.
- The new WCRP coordinates high-quality climate science from around the world; provides an authoritative voice in climate science; addresses major climate challenges in an energetic, agile and dynamic way, with enhanced diversity and transparent communication and strong community engagement, relevance and profile.
- The new WCRP is engaged with funding agencies around the world.

# Opening by Chairs

- Lighthouse Activities are proceeding apace with their science planning and implementation, for example:
  - My Climate Risk have established hubs around the world
  - Safe Landing Climates have co-sponsored a series of Workshops on tipping Points (with AIMEs and Earth League)
  - Explaining and Predicting Earth System Change have run key Workshops
- We have bids for an International Project Office(IPO) for the Regional Information for Society (RifS) Core Project; and proposals are being developed for an IPO to support Earth System Modelling and Observations (ESMO).

# The Path to the new WCRP



# WCRP's New Structure

## Joint Scientific Committee (JSC)

## WCRP Secretariat

## Lighthouse Activities

## International Offices

### Core Projects and Research Communities

- Climate and Cryosphere (CliC)
- Global Energy and Water Exchanges (GEWEX)
- Climate and Ocean Variability, Predictability and Change (CLIVAR)
- Stratosphere-troposphere Processes And their Role in Climate (SPARC)
- *Earth System Modelling and Observations (ESMO)*
- *Regional Information for Society (RIfS)*

### Additional Activities and Forums

- Fixed-term projects
- Conferences and workshops
- Reference datasets, evaluations and benchmarking
- Diversity and capacity building: ECRs, regions
- Rapid updates, syntheses, assessments, gap analysis
- Communications and outreach

# WCRP's Grand Challenges

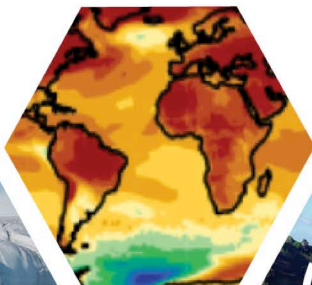
*All but one WCRP Challenge has “sunsetted” by now.*



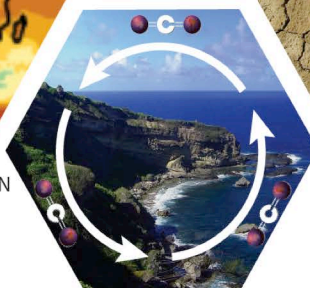
WATER FOR THE FOOD BASKETS OF THE WORLD



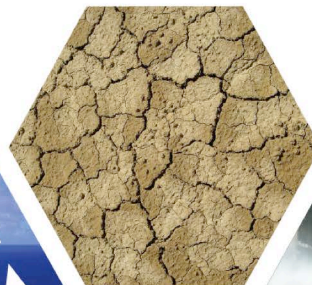
MELTING ICE AND GLOBAL CONSEQUENCES



NEAR-TERM CLIMATE PREDICTION



CARBON FEEDBACKS IN THE CLIMATE SYSTEM



WEATHER AND CLIMATE EXTREMES



REGIONAL SEA LEVEL CHANGE AND COASTAL IMPACTS



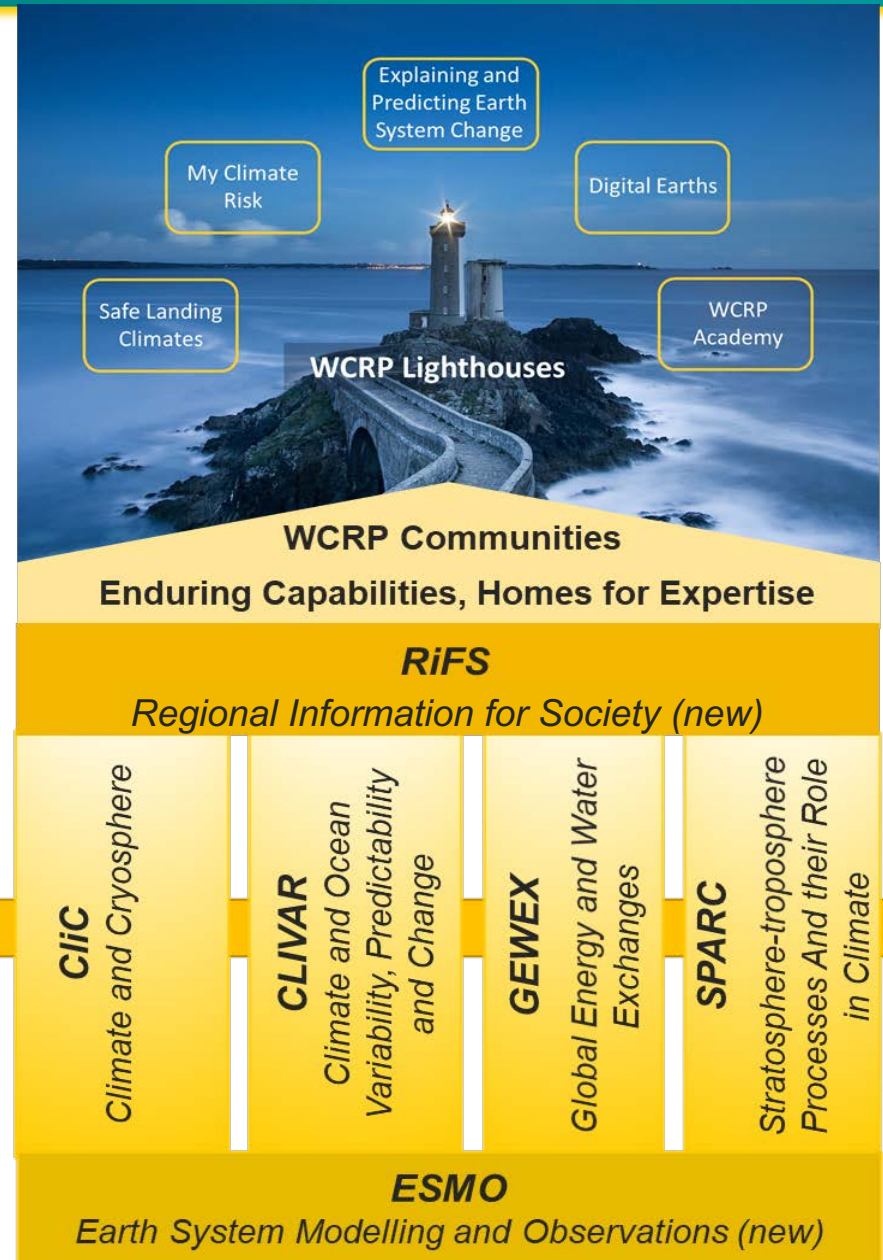
CLOUDS, CIRCULATION AND CLIMATE SENSITIVITY

# Lighthouse Activities and CoreProjects

WCRP's LHAs are not meant to be an extra layer independent of WCRP's core activities, especially the Core Projects.

Rather, the intent is that they draw on all WCRP's core activities and indeed are co-owned by WCRP's core communities.

Requires permanent attention and intense communication practices.





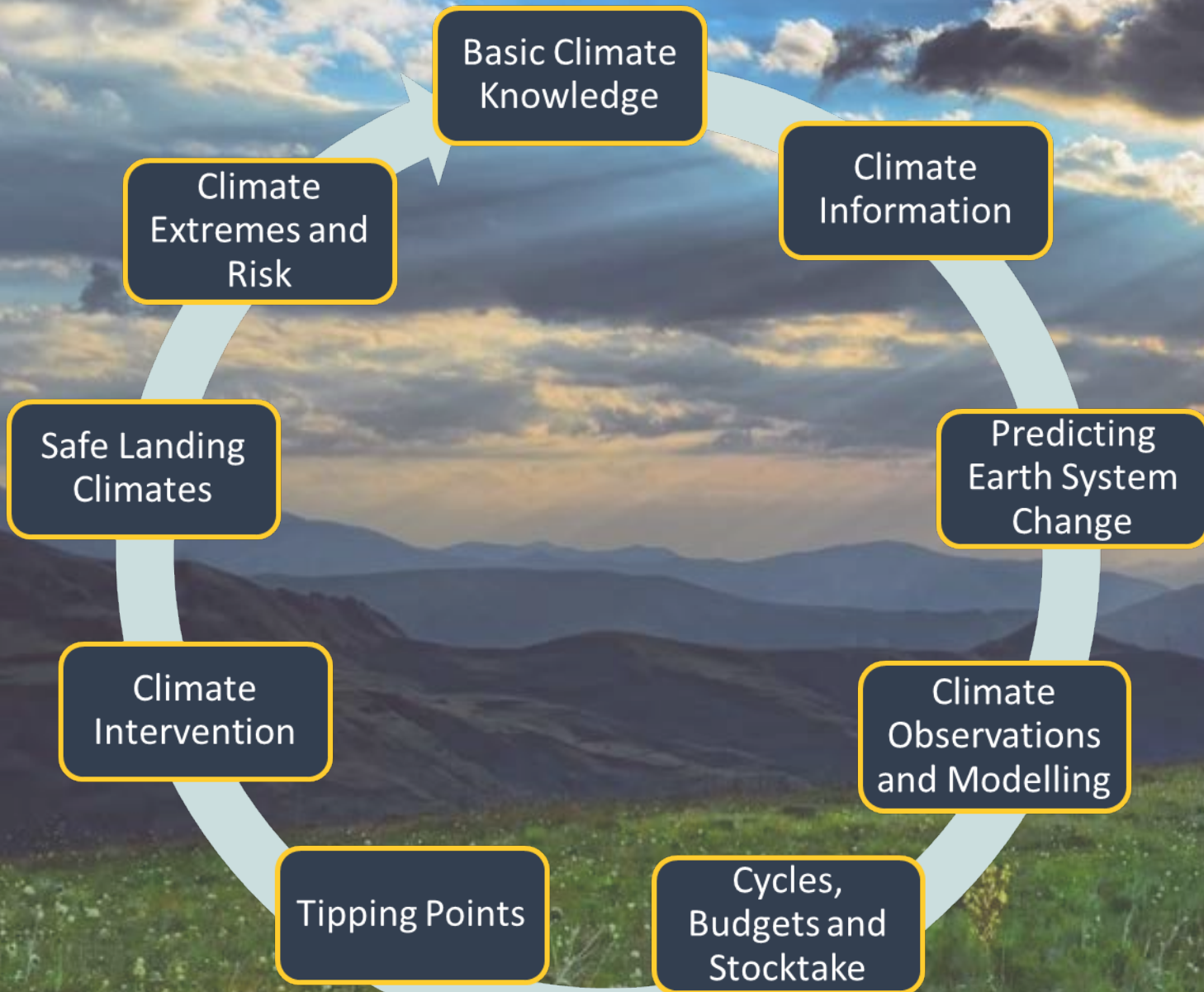
# Goals of JSC-43

1. Hear back from the WCRP family on progress towards the new science / business plans; i.e.,
  - a) Receive reports, and proposals for change, from our Core Projects (ongoing and new).
  - b) Review Lighthouse Activities' science planning and implementation
  - c) Progress on key science initiatives (e.g., Task Teams on Budgets, GPEX and Climate Intervention; Future of Climate Modelling etc.)
2. Improve interaction across WCRP, especially between Lighthouse Activities and Core Projects.

# Goals of JSC-43

3. Start an annual day dedicated to brainstorming and strategic discussions.
4. Finalize Science and Implementation Plan
5. Discuss aspects that will be required in the future:
  - Coordination mechanisms and communication
  - New investment strategies.
  - Strengthened interaction with partners.
  - Improved WCRP outside/web representation

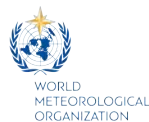
# What WCRP Accomplishes



# Opening by Chairs

***A reminder that attendance at JSC-43 is by invitation only***

***We intend to have future annual JSC meetings again in person.***



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# Welcome from Co-sponsors

(3-min each)

World Meteorological Organization (WMO):  
**Jürg Luterbacher** on behalf of **Elena Manaenkova**

International Science Council (ISC):  
**Mathieu Denis**

Intergovernmental Oceanographic Commission (IOC):  
**Vladimir Ryabinin (by video)**



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# Welcome on behalf of WCRP Secretariat



**Michael SPARROW**  
Head, World Climate  
Research Division, WMO &  
Head of the WCRP  
Secretariat



**Nico CALTABIANO**  
Scientific Officer



**Hindumathi  
PALANISAMY**  
Scientific Officer



**Narelle VAN DER WEL**  
Science and  
Communications Officer



**Beatriz BALINO**  
WCRP Support Unit at the  
Bjerknes Centre for  
Climate Research (BCCR)



**Wenchao CAO**  
Junior Professional Officer  
(joint WCRP/WMO  
Research Board)



**Valery DETEMMERMAN**  
Consultant WCRP Open  
Science Conference



**Ma. Laurice JAMERO**  
Consultant WCRP  
Academy Lighthouse  
Activity



**Catherine MICHAUT**  
WCRP Support Unit at  
Institut Pierre-Simon  
Laplace (IPSL-ISU)

- 1-2 interns will join in September to work mainly on comms with Narelle.
- 1 intern will join in January (paid for by Germany) to work with Nico.
- Wenchao will leave at the end of October.
- Also share of other staff in Science and Innovation department (led by Jürg)

...and a big THANK you to the support from our International Project Offices!

# Approval of Agenda

- Approval of Agenda

End of Session 1



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# Guidelines for the Videoconference

1. The WCRP Secretariat will monitor the Chat Box. If you wish to ask a question you can use the 'raise hand' function or you can make a comment or ask a question in the Chat Box.
2. Please make sure that your name in Zoom is your name / project or organization
  - e.g. Ted Shepherd/My Climate Risk or Valentina Rabanal/YESS
3. Session Chairs and Rapporteurs have been nominated to both run, and capture the discussion, for each Session.
  - To assist the Rapporteurs, the Sessions are being recorded and will be made available afterwards, and a copy of the Chat content retained as well. Please advise the Chair if you have concerns regarding this.
4. Speakers are respectfully asked to limit their presentations to their allocated time.
5. Presenters can share their own slides (please send a copy to Wenchao). If you have a technical problem at any time, please say so in the chat or email Wenchao ([wcao@wmo.int](mailto:wcao@wmo.int)).
6. Please mute yourself when not participating in the discussion (and remember to unmute when you start speaking). Please have your video on when you are speaking.
  - Also, the Chair will let you know if we cannot hear you, so there is no need to ask if we can 😊



End of Session 1



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