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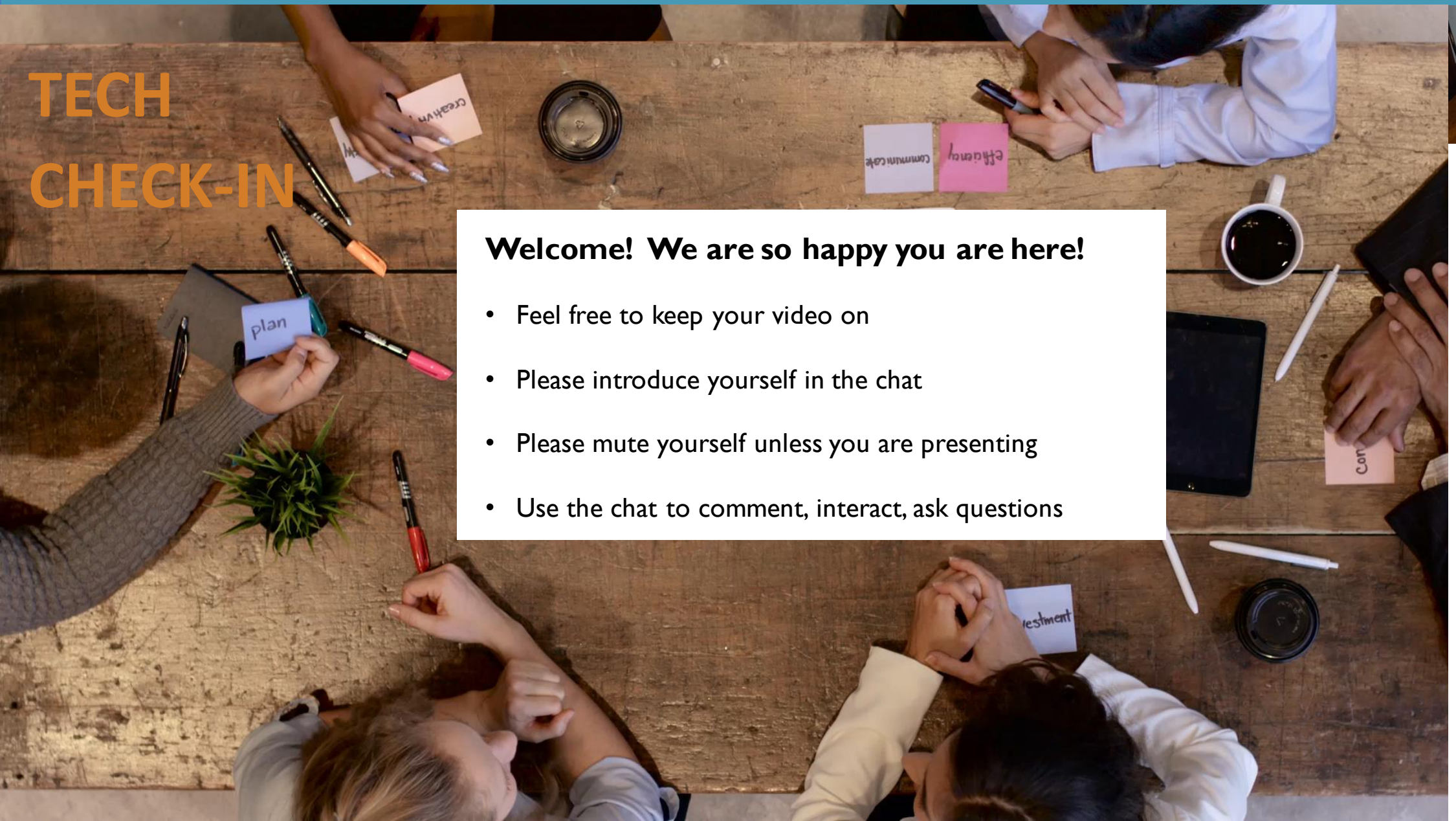
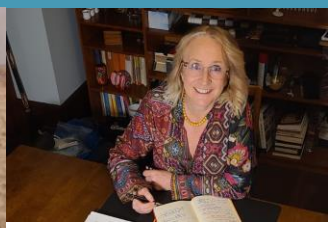
The U.S. Government's Global Hunger & Food Security Initiative

TECH CHECK-IN



Welcome! We are so happy you are here!

- Feel free to keep your video on
- Please introduce yourself in the chat
- Please mute yourself unless you are presenting
- Use the chat to comment, interact, ask questions



Andrea Bohn

ZOOM POLL

Have you ever attended a Livestock Systems Innovation Lab event before?

- ❑ Yes, several
- ❑ Yes, once before
- ❑ No, this is my first one

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Innovation Platform Meeting

– NEPAL–

Held virtually on
March 16, 2021

from 3 to 5 pm NPT

Meeting held in Kathmandu, 29 November 2018 (Credit: S. Sapkota/Nepal Agricultural Research Council)

FEED THE FUTURE INNOVATION LAB FOR LIVESTOCK SYSTEMS

USAID FROM THE AMERICAN PEOPLE

BILL & MELINDA GATES foundation

ILRI INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE

CGIAR

UF IFAS UNIVERSITY of FLORIDA

WELCOME AND OPENING REMARKS

Dr. Gbola Adesogan
Director of the Feed the Future Innovation Lab for Livestock Systems and the Food Systems Institute, University of Florida

Dr. Sujan Piya
Program Development Specialist
Water and Agriculture
USAID/Nepal

MEETING PURPOSE

1. Share key research findings from Phase I
2. Describe research and local capacity development plans for Phase II
3. Prepare prospective applicants for the forthcoming Request for Applications

PHASE I

SELECTED RESEARCH FINDINGS

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Community-based goat breeding program for enhancing productivity and livelihood of smallholder farmers of different agro-ecological zones in Nepal

Goat Research Station-NARC in partnership with AFU and SARD

Ongoing

- Started **performance recording** of 2500 goats using a software (supported by a mobile application)
- Carried out action research on the **impact of different anthelmentics**
- Scheduled a feeding trial to assess the impact of **nutritional supplementation**
- Carried out **gender and socio-economic study** among participating households

Strategies to increase milk consumption among children in rural Nepal

Heifer International Nepal in partnership with Tufts University

Ongoing

- 150 mothers were trained on the **nutritional impact of milk consumption;** will be compared with a control group of non-intervention beneficiaries
- Extension materials were prepared and used for effective **nutrition messaging,** besides home visits
- **End line survey to assess** impact will start soon

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Designing and evaluating innovations for development of smallholder female livestock cooperatives in Nepal

University of Florida in partnership with NARC, HIN, IDA

Ongoing

- Increased market linkages between female goat cooperatives and traders in Nepal through a **goat marketing app**.
- Research identified **drought-tolerant forage combination*** (3% of body weight) supplemented with concentrates (1% of body weight) for highest weight gain.
- **Hybrid distance learning course** increased women participation (24% more) in CAHW training.

*2/3 oats + 1/3 berseem/vetch or both for winter and 2/3 teosinte + 1/3 cowpea/red bean/both for summer

ZOOM POLL

How important is the distance learning method for female village animal health workers?

- ❑ Very
- ❑ Somewhat
- ❑ Neutral
- ❑ Not at all

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Improving dairy animal productivity and income of dairy farmers through effective control of mastitis disease in Nepal

Heifer International Nepal in partnership with DLS

Completed

- **Improved hygienic practices decreased mastitis** prevalence from 55% to 28% in cows and from 78% to 18% in buffaloes.
- Also resulted in **increased milk supply to co-op due to increased membership** as a result of establishment of a feedback mechanism to farmers for mastitis prevention and control measures.

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Feeding support tool development for enhancing dairy animal productivity for improved livelihood of smallholder dairy farmers in Nepal

Heifer International Nepal in partnership with NARC

Completed

- Improved dairy animal feeding with an **app-based ration balancing tool** resulted in **increased milk production among 94% of farmers who used it**.
- Project results triggered scaling up by the Nepal Dairy Development Board.
- App is available from Google App Store: **L-FST**

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Empowerment of village women for detection and control of livestock diseases in Nepal

Colorado State University in partnership with DLS

Completed

- **Trained "Village Women"** in rural areas to **serve as disease reporting sentries** using a smartphone app.
- They reported 1,142 cases of disease symptoms, **almost doubling disease reporting** in the districts.
- Some reports triggered risk management response (including mass vaccination) by DLS to **contain an outbreak of hemorrhagic septicemia** which causes high mortality.

Q & A

ABOUT PHASE I

Find more detailed results:

https://livestocklab.ifas.ufl.edu/projects/

&

Attend upcoming thematic webinar series

PHASE II

RESEARCH PRIORITIES

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OVERARCHING GOAL

Contribute to more balanced diets, which include Animal-Source Foods (ASF), to ensure nutrition and food security for vulnerable populations.

SPECIFIC OBJECTIVES

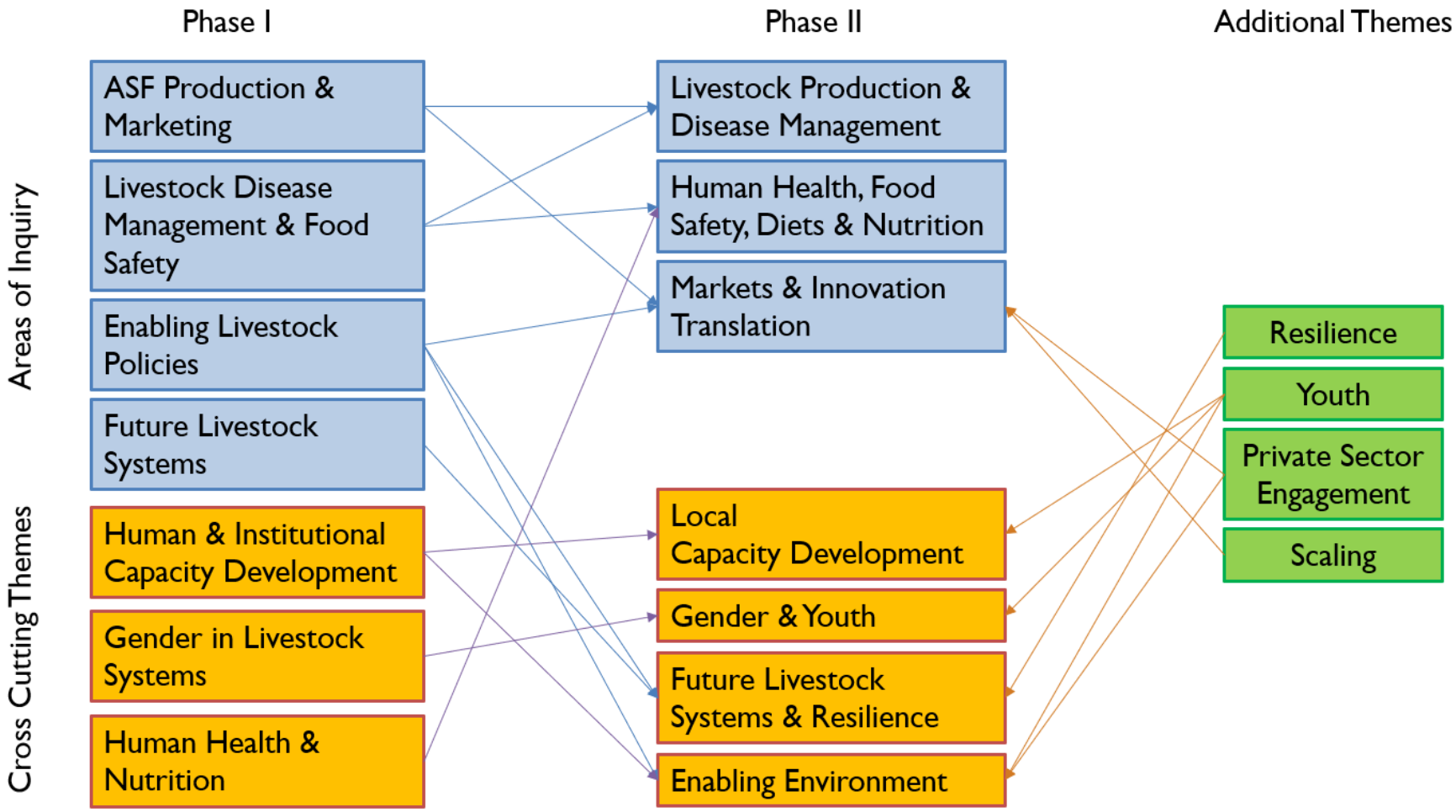
1. Sustainably improve livestock productivity and marketing and ASF consumption using appropriate improved technologies, capacity development, and policy advocacy;

2. Increase the resilience of vulnerable populations;

3. Reduce the environmental impact of livestock systems;

4. Advance the understanding of evolving livestock systems and their roles in food security, nutrition, and health.

TECHNICAL APPROACH



LSIL RESEARCH PORTFOLIO

Phase I Focus

- improve livestock feeds and feeding
- increase ASF consumption
- improve livestock disease surveillance and mitigation
- strengthen markets
- improve food safety
- foster a conducive livestock policy environment

Phase II Focus

Continue working in Phase I areas but stronger emphasis on improving dietary diversity and adequacy with ASF by:

- reducing ASF production costs,
- increasing ASF safety and markets,
- reducing ASF consumption barriers.

More research on environmental enteric dysfunction (EED) to improve nutritional outcomes.

PRIORITIES IN NEPAL

- strengthen the goat value chain through better animal health service delivery and improved feeding, breeding and marketing;
- continue the work in the dairy sector, including improved preservation during transport, improved processing as well as establishing quality-based payment mechanisms for milk;
- develop interventions that overcome barriers to consumption of ASF.

Q & A

ABOUT PHASE II

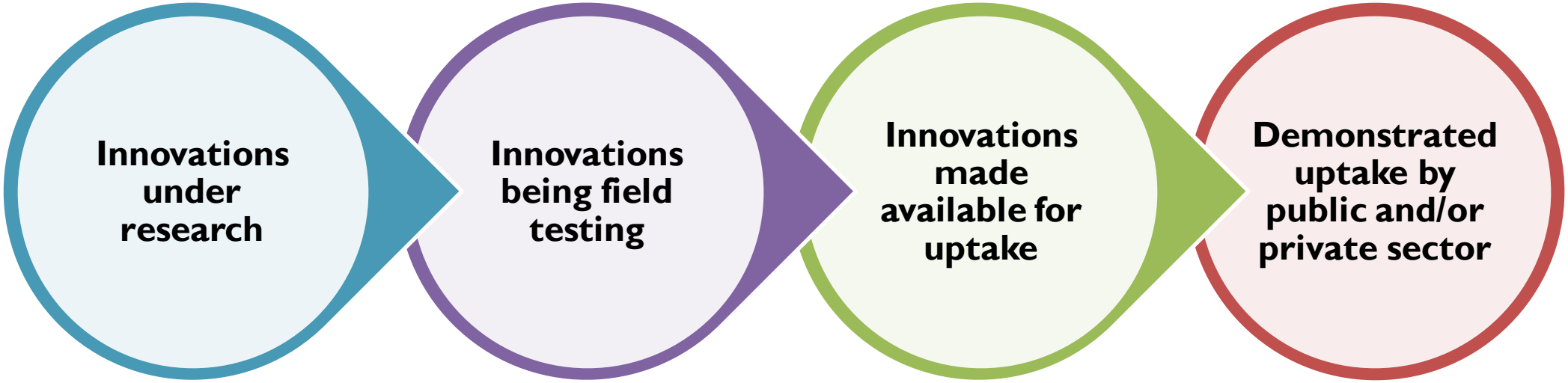
RESEARCH PRIORITIES

ADOPTION PATHWAYS AND SCALABILITY

SCALING EXAMPLE: NEPAL

Innovation	Feeding Support Tool (HIN)
Effect	Increased milk production among 94% of farmers who used it
Scaling out (HIN)	From 6 to 13 dairy cooperatives (included in the 2nd phase of HIN's SHVC project)
Driver	Self-conviction-measurable value addition & impact, internal commitment
Scaling up (NDDB)	300 Technicians, Use FST in an ongoing research project by NARC
Driver	Result sharing workshop, scaling committee, budgetary allocation (NPR 1.5 million)
Lessons learnt	(1) A well-known, well connected organization with high visibility who can influence decision makers as PI (HIN) – helped the scaling out
	(2) A planned approach *at the project beginning (*scaling ambition, system analysis, identification of potential scaling agencies including pvt.) can produce even better scaling results
	(3) Active involvement of potential scaling agencies (e.g. pharma companies, dairies) *during project implementation* may give a different scaling result
	(4) More outreach workshops, Policy RTs, Research-Industry F2F meets etc. *at the project end* can result in effective linking of innovation developers and scalers

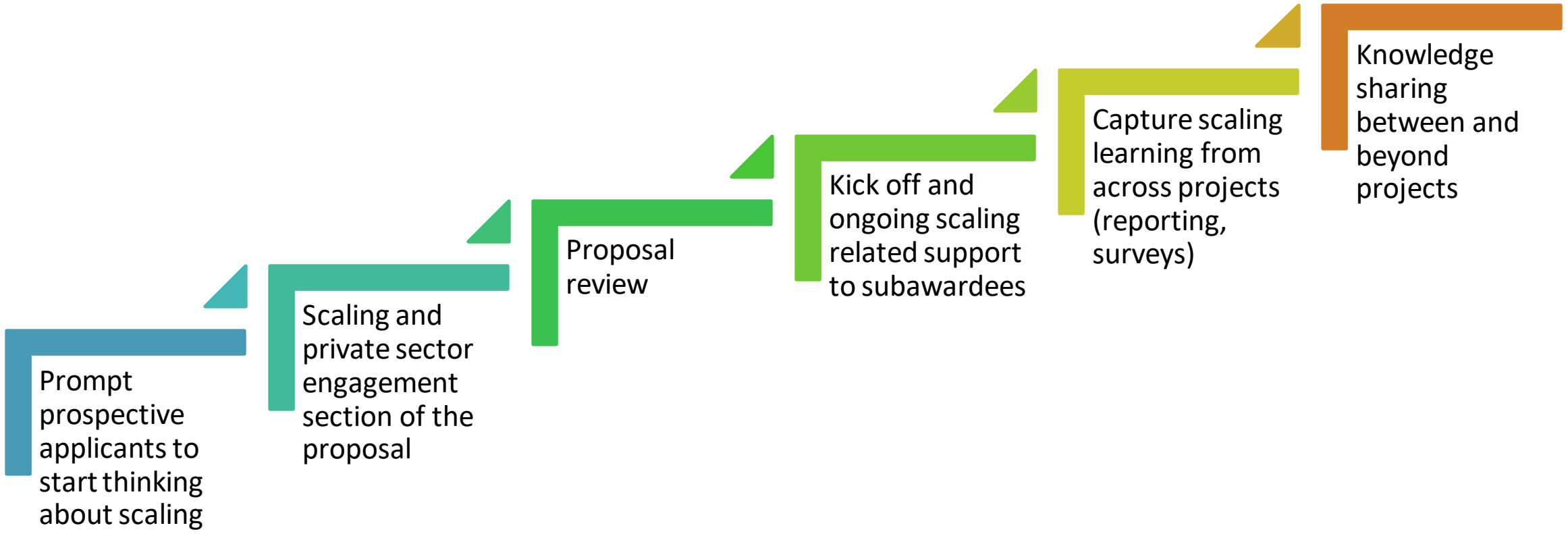
LINEAR APPROACH



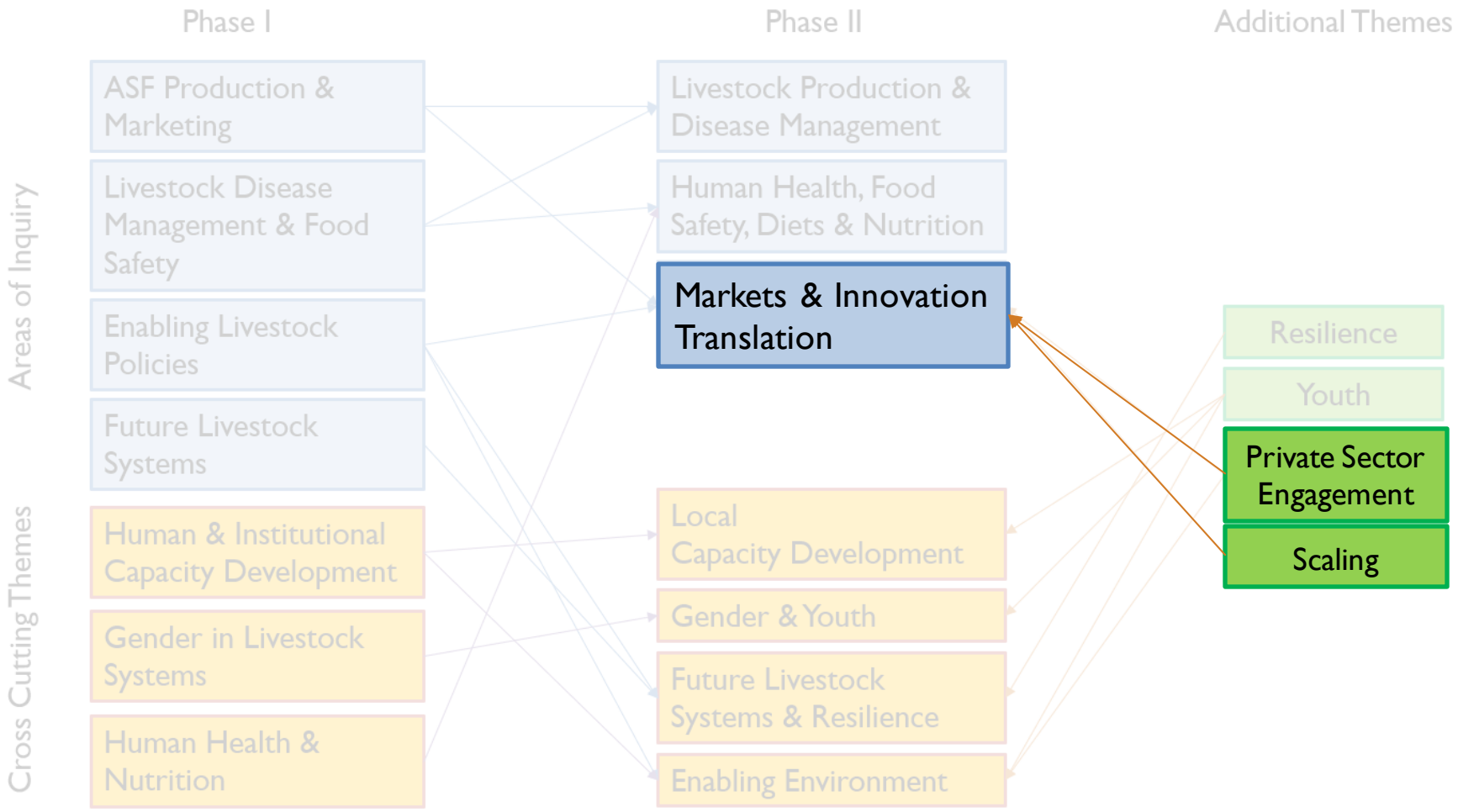
At each stage it matters

- **WHO is involved in WHAT role**
- **WHAT questions are being asked, what information is collected by WHOM**
- **HOW findings are shared**
- **WHETHER adjustments can be made**

PURSUING THE SCALING AMBITION THROUGHOUT THE PROJECT CYCLE



AOI MIT – LED BY DR. MULLALLY



PROPOSALS MAY NEED TO

- **Demonstrate that there is demand** for the prospective findings and innovation(s) arising from your work
- Describe the **potential applicability, relevance, feasibility, and scalability** of the work you propose to undertake.
- Identify the likely **adoption pathway**: Public, PPP, or Private?
- Include a plan for **determining the farm or business level costs and benefits** of adopting the innovation(s)
- Include a plan for **assessing the country/economy wide benefits**

PARTNERSHIPS ARE KEY

Find partners and key stakeholders that will facilitate adaptation and scale out of the innovation(s) arising from your work.

- Who could assist with the "business case' and economic assessments?

- Who can provide complementary products and services to form an attractive innovation package?

How do you plan to engage with them throughout the research phase?

SOME OF OUR PHASE I PARTNERS IN NEPAL:

- Ministry of Agriculture and Livestock Development, esp.
  - Department of Livestock Services
- Nepal Agricultural Research Council
- National Dairy Development Board
- Heifer International Nepal
- Interdisciplinary Analysts
- Agriculture and Forestry University
- Himalayan College of Agricultural Science and Technology
- Little Angels College

Q & A

ABOUT PHASE II

ADOPTION PATHWAYS AND SCALABILITY

LOCAL CAPACITY DEVELOPMENT PHASE II

LOCAL CAPACITY DEVELOPMENT

- Informed by forthcoming USAID policy
- Local capacity development (LCD) will measure success by the strengthened performance of local actors and local systems in achieving and sustaining demonstrable results
- The indicator – CBLD9 – measures the percentage of improved performance of a system or organization

LIVESTOCK SYSTEMS RESEARCH

- Research is embedded in existing systems
  - Research organizations including universities
  - Situated in and funded by different ministries and donors
  - Organizational culture
  - Institutional structures

- Livestock research is one piece of the entire livestock system

- Priorities are determined by and shift according to who is engaged

LIVESTOCK SYSTEMS INNOVATION LAB
PHASE I & PHASE II

Capacity Development Activities

Phase I – Emphasis on technical and soft skills training

Phase II – Emphasis on strengthening organizations and enabling environment

THE GROUNDWATER APPROACH

PRIMARY ACTIVITIES IN PHASE II

- **Host LCD collaboration processes in each country**
  - Co-designing pilot projects to address systemic issues in livestock systems research
  - Updating on current situation and trends
- **Provide technical support** to and collaborate with subawardees, AOIs and CCTs

THE LCD PROCESS

ENGAGEMENT & COLLABORATION

- Engaging old and new partners and stakeholders
- Engaging policy and decision-makers
- Collaborating with subawardees on LCD activities
- Collaborating with Enabling Environment CCT

ANALYSIS & ROADMAP

Developing and refining LCD roadmaps to strengthen local livestock research systems

- ✓ Reality check 1: Where could capacity development solve one of the identified systemic problems?
- ✓ Reality check 2: How to have an impact with a pilot project?
- ✓ Reality check 3: What institutional commitments and networks are needed to initiate and sustain local systems changes?
- ✓ Reality check 4: Requires higher level administration to participate. Is this realistic?

ZOOM POLL

Would you like to join the launch meeting for the consultative LCD roadmap development?

- ❑ Yes
- ❑ Maybe
- ❑ Probably not

THOSE WHO SAID YES / MAYBE:

Follow link to the Google spreadsheet

https://docs.google.com/spreadsheets/d/1WaSZgqC4FVigJgsf4QCrOMkPeh9qZKE9e08xj2I0_24/edit?usp=sharing *(see chat, await follow up email)*

1. **Enter <u>your</u> full name, title, institution and contact information.**
2. **Add contact details for <u>others</u> who you think should be invited.**

DESIGN & MONITORING

Design:

Also through an RFA and competitive award process

Specifics will depend in part on the road map consultations

Monitoring:

By country coordinators and LCD team

Q & A

ABOUT PHASE II

LOCAL CAPACITY DEVELOPMENT

TYPES OF RESEARCH PROJECTS IN PHASE II

This year we aim to award (in each country)

- **1 longer term REACH project**
- **2-3 short-term FOCUS projects**
- **Funding for Local Capacity Development**

Future

- **Add-on projects**
- **Private Sector scaling projects**
- **Challenge project**

TEAM COMPOSITION AND ELIGIBILITY

- Target country & US/Western institutions
- Inclusion of Minority Serving Institutions (MSI) is highly encouraged
- Private sector, civil society, non-governmental organizations (NGO)

STRONG PARTNERSHIPS ARE KEY TO SUCCESS

- Possess complementary technical skills
- Have longstanding experience and network of contacts in target country
- Can navigate ethical clearance and fulfill compliance needs
- Are suitable bridging or scaling partner

NEXT STEPS

Complete **Event evaluation survey** *(see link in chat & email)*

Stay tuned **Join the mailing list (newslettter)**
https://livestocklab.ifas.ufl.edu/contact/

April 2021 **Global, pre-RFA informational webinars:**

- **AOI Human Health, Food Safety, Diets & Nutrition** (April 9)
- **Application requirements and processes** (April 14)

May 2021 **Anticipate release of the RFA**

CLOSING REMARKS

Dr. Gbola Adesogan

Disclaimer

This work was funded in whole or part by the United States Agency for International Development (USAID) Bureau for Food Security under Agreement # AID-OAA-L-15-00003 as part of Feed the Future Innovation Lab for Livestock Systems. Any opinions, findings, conclusions, or recommendations expressed here are those of the presenters alone.

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