





This presentation represents the preliminary strategic direction of a multi-year, whole-of-government, U.S. strategy to address food security in a Feed the Future country or region. It describes partner country progress and outlines how U.S. investments will align in support of partner country priorities. This document has not yet been approved or funded but will form the basis of a multi-year strategy in development.



#### **Executive Summary**



#### Lift 1 million individuals out of poverty

#### Value chains

- Focus: high value vegetables
- Cropping systems: rice, maize, pulses

#### Components<sup>1</sup>

- High value agriculture (75%)
- Nutrition & hygiene (15%)
- Integration of vulnerable groups (5%)

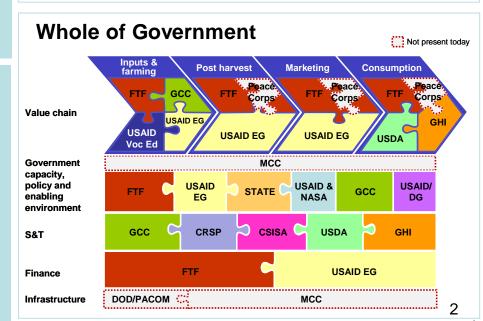
#### **Highlights**

- 100% inclusive leadership, WOG approach
- Cost/person out of poverty \$160 over 5 years
- Scale & sustainability through change agents
- Based on USAID proven interventions

#### **Geographic Focus**

16 districts in FW & MW Terai & lower Hills







## **Contents: Nepal Strategy**





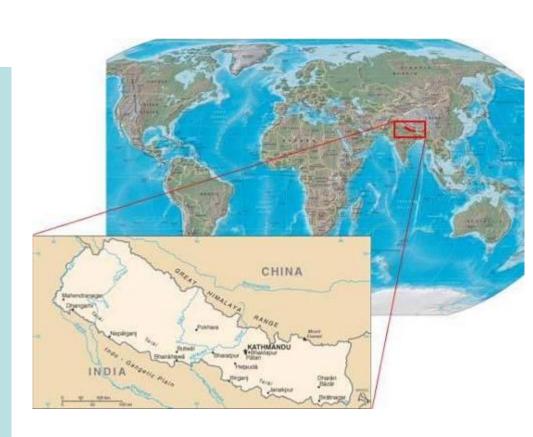
- Development Challenge
- Interventions with Highest Potential
- Proposed USG Engagement
- Impact





# Country Context Nepal is the 13<sup>th</sup> poorest country in the world ...

- Poorest country in South Asia;
   142/177 HDI
- 55% population <\$1.25/day</li>
- GDP/capita \$470
- Population expected to double between 2000-2040
- 70% of population depend on agriculture for their livelihood (34% of GDP)
- 50% population is under 18 years
- >100 ethnic groups; 92 languages
- Caste and gender discrimination
- Rising out of conflict







### **Vulnerable Groups**

#### Women



- Last to eat and first to give up food
- Absorb greater workload as men migrate in lean season
- Literacy rate of only 42% (vs. 69% male)

#### Disadvantaged and conflict-affected youth



- 50% of population is under 18
- Significant number of former combatants from conflict era

#### Ethnic, linguistic and religious groups



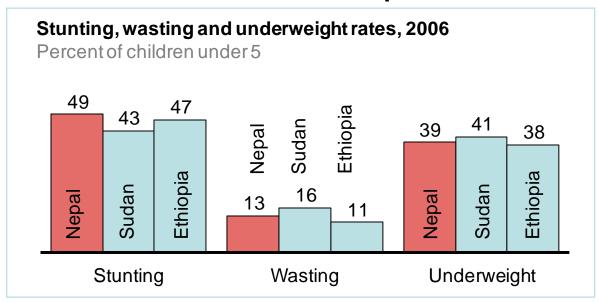
- Dalits, Madhesis, Janajatis face >200 forms of discrimination
- Half income compared to other castes







## Nutritional status in Nepal is similar to Sudan and Ethiopia



2/3 of all Nepalese suffer from food insecurity during year 41% of people consume less than the minimum calorie requirement 1





#### **Availability**

- National food deficit since 1980s
- Average landholding size less than
   0.5 hectare
- Several days walk to market

### **Food Insecurity**

#### **Access**

- 75% of income spent on food
- **15% food inflation rate** (Ag. GDP growth rate only 2.5-3.5%)

#### Utilization

- Limited dietary diversity
- Discriminatory feeding practices affecting women and lower castes

#### **Stability**

- Agricultural lean seasons lead to male outmigration
- Recurrent natural disasters increase vulnerability of poor

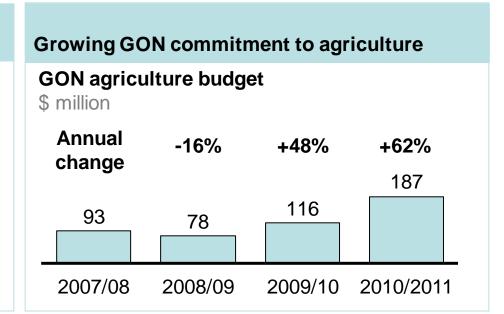




### Steady development progress despite challenges in governance

#### **Development progress...**

- Greatest global increase in HDI since 1980
- Macroeconomic environment
- GON budget increases (Ag., roads, education, health)
- Vibrant civil society
- On track to meet 3 MDGs



#### ...despite challenges in governance

- 10 year conflict ended in 2006; Constitution in progress
- Technical-level policy-making
- Constraints on business enabling environment







#### **Government readiness**

- Strong donor coordination
  - Agency heads & technical level groups
- Country Investment Plan process
  - Stakeholder workshops: GON, civil society, NGOs, private sector, bilateral/multilateral partners, academia
  - IFPRI stocktaking exercise
  - Priority investment areas clearly articulated, quantified and roles assigned
- GAFSP application Oct. 2010
  - Partial overlap with FTF focus districts
  - Broad stakeholder consultation, endorsed by donor group
- Nutrition Assessment and Gap Analysis (NAGA) 2009
- National Health Sector Plan 2010-2015
  - Food security and nutrition section



## **Contents: Nepal Strategy**





- Development Challenge
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## Interventions with Highest Potential CHANGE FUTURE



## Feed the Future focus on 16 districts of **Western Terai and Hills**

Feed the Future proposed focus districts

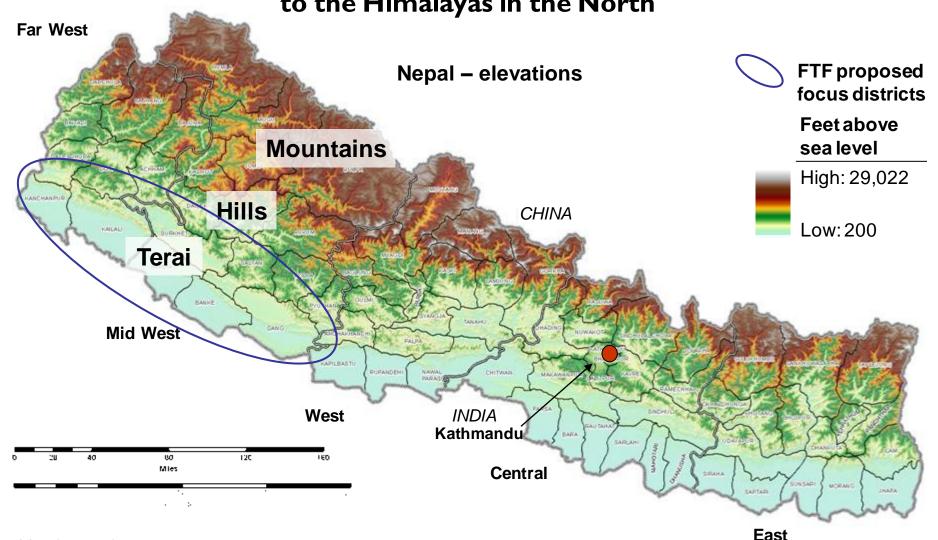




## Interventions with Highest Potential CHANGE FUTURE

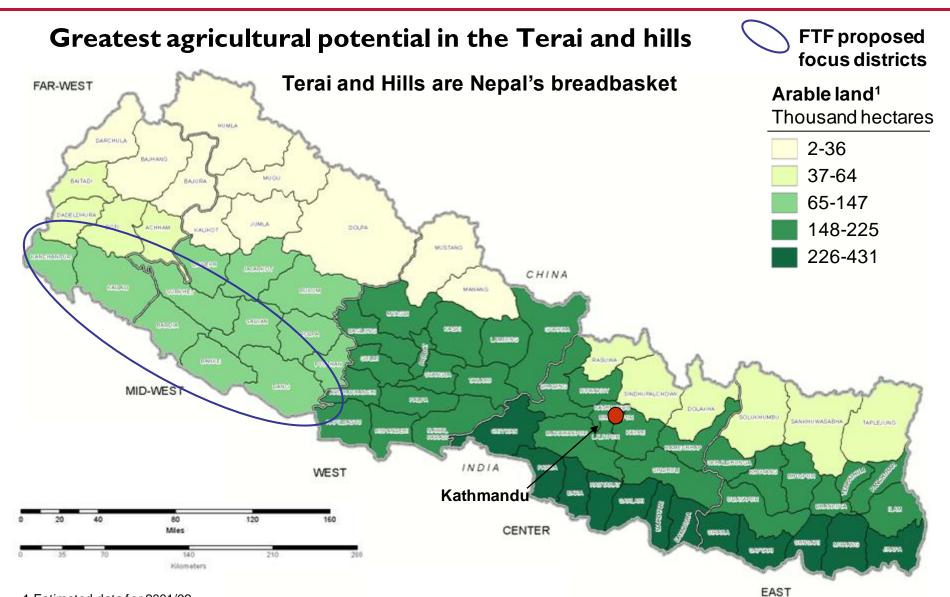


Nepal has 3 major regions, running from the Terai plains in the South to the Himalayas in the North







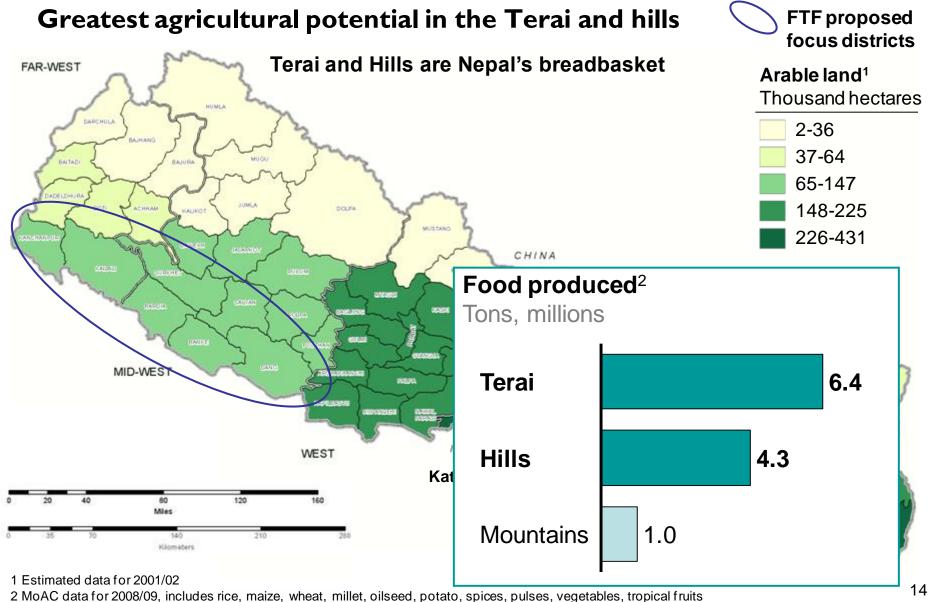


<sup>1</sup> Estimated data for 2001/02



## Interventions with Highest Potential CHANGE FUTURE



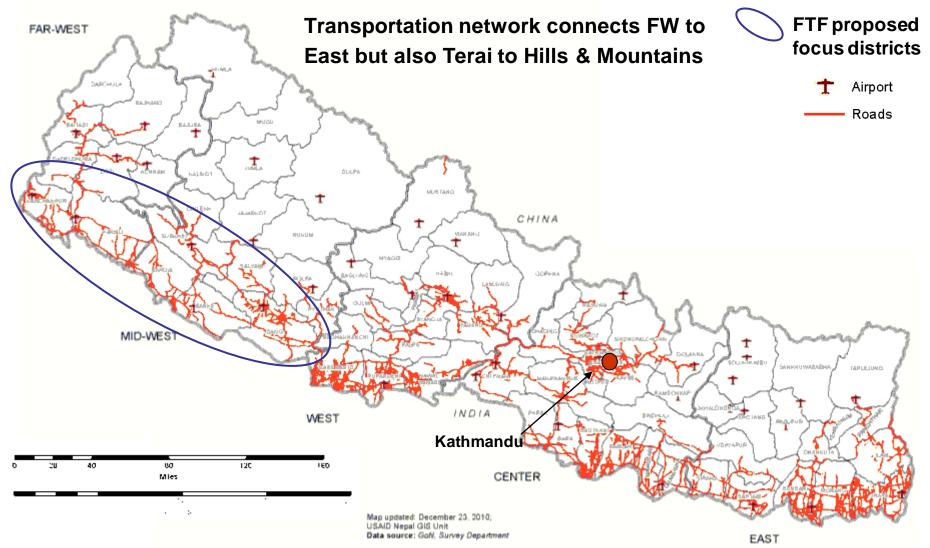




## Interventions with Highest Potential CHARGE FUTURE

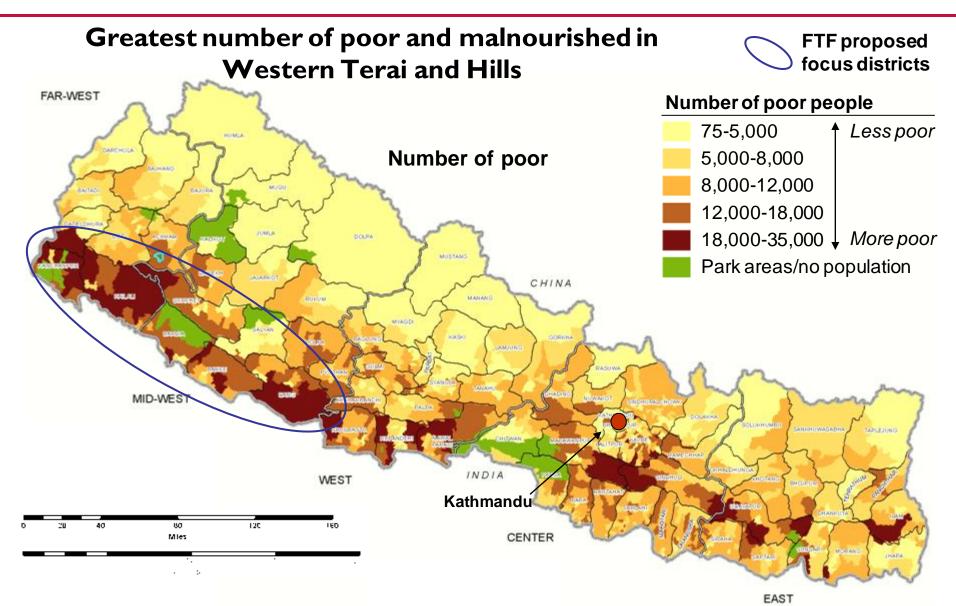


#### **Existing transportation network**





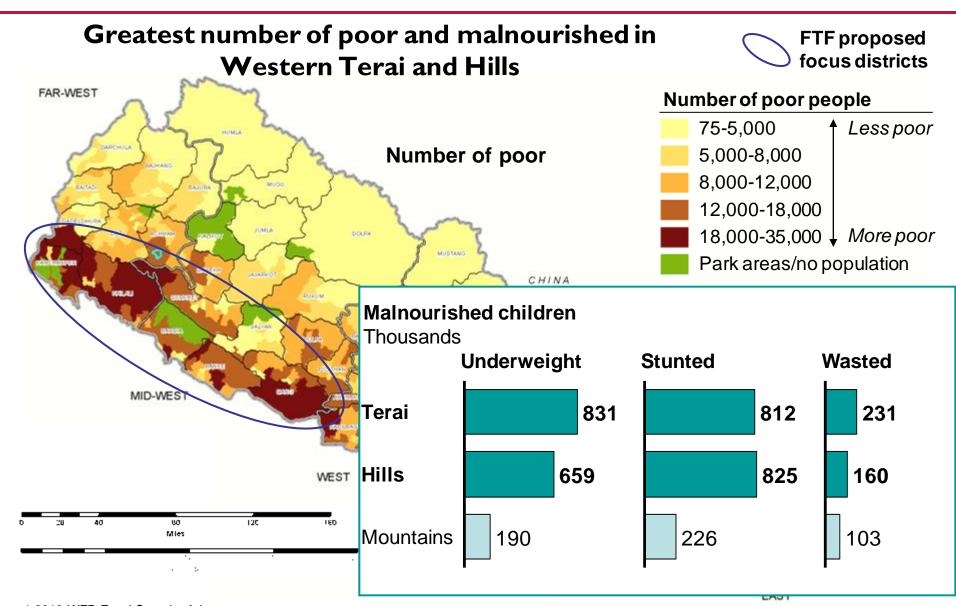






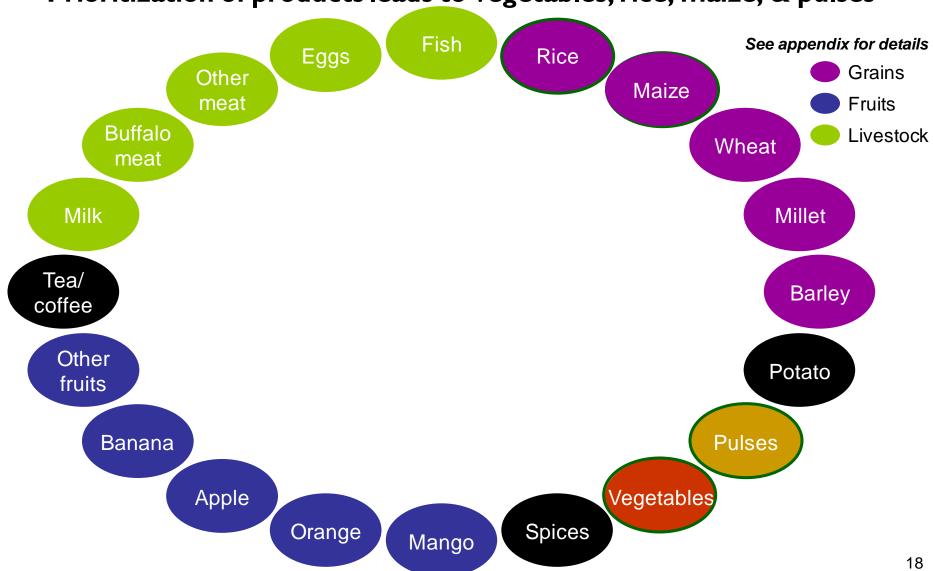
## Interventions with Highest Potential CHANGE FUTURE





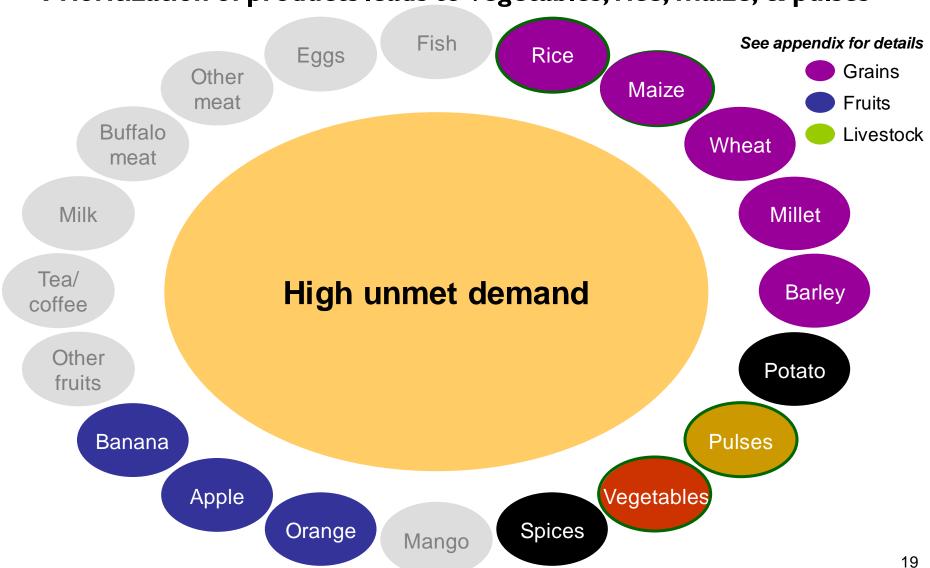






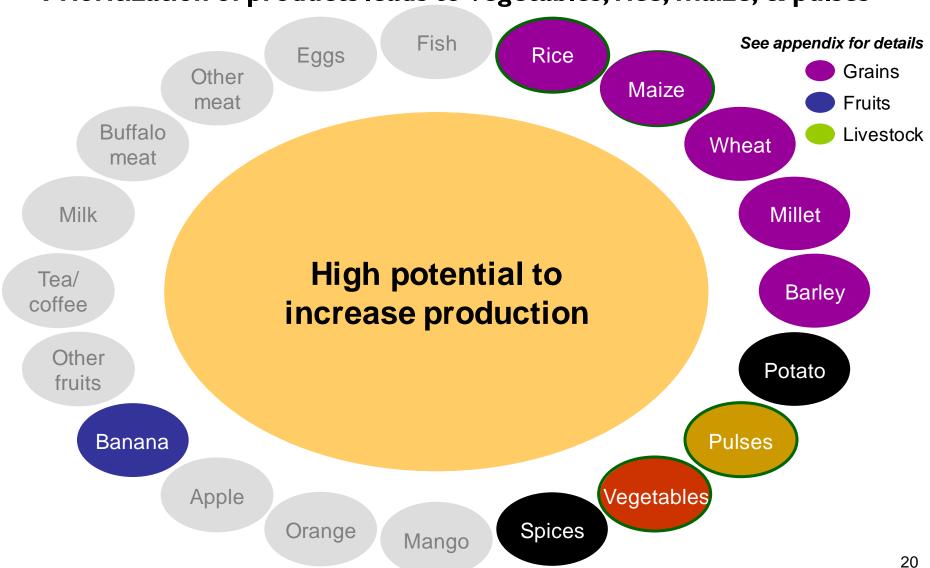






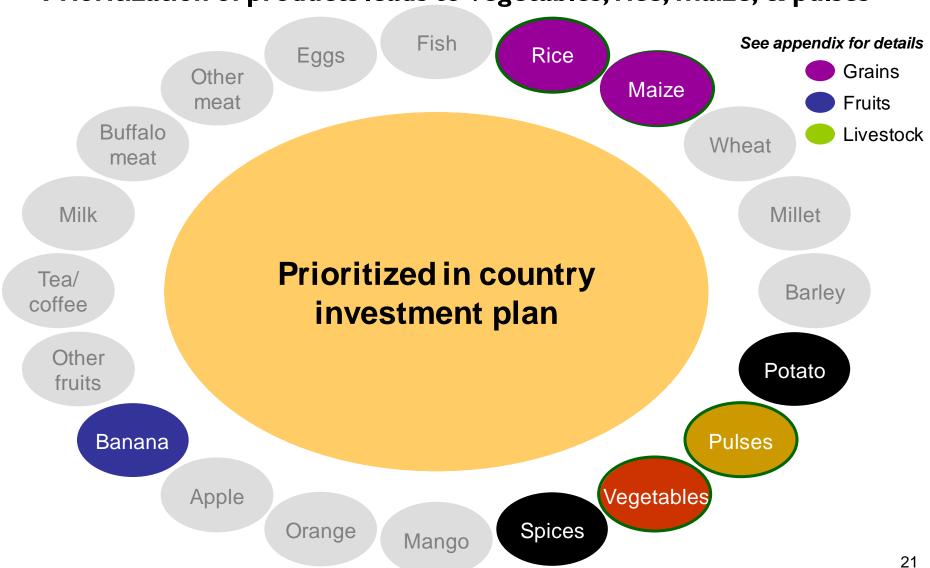






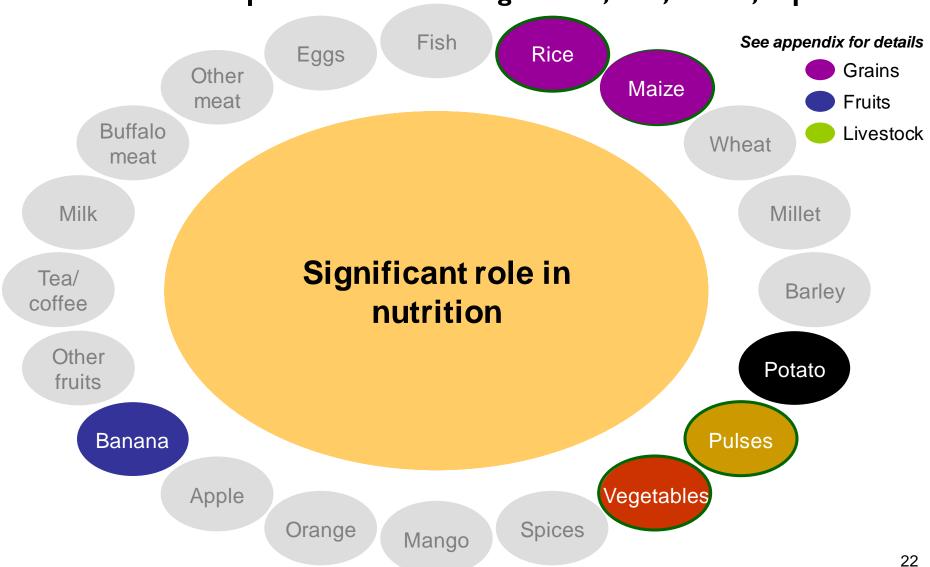






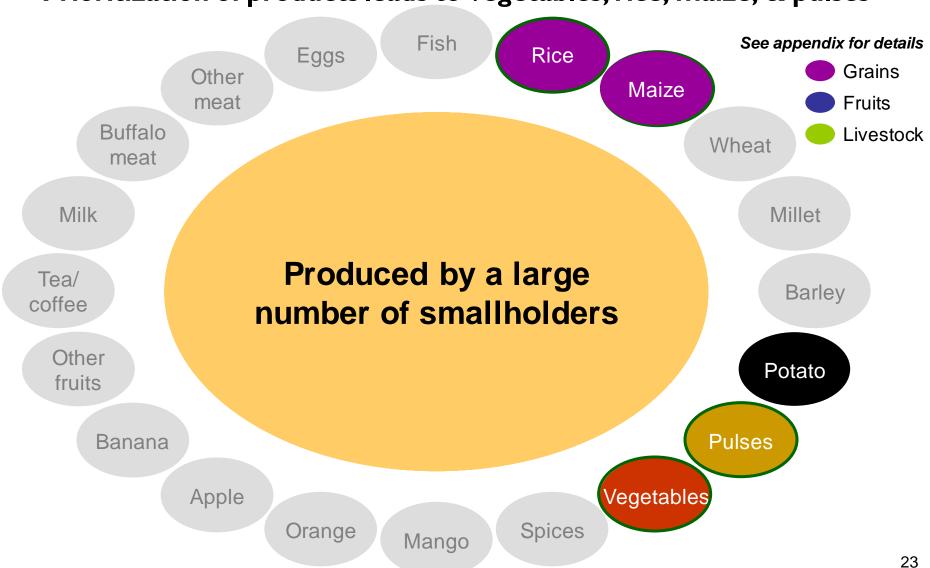






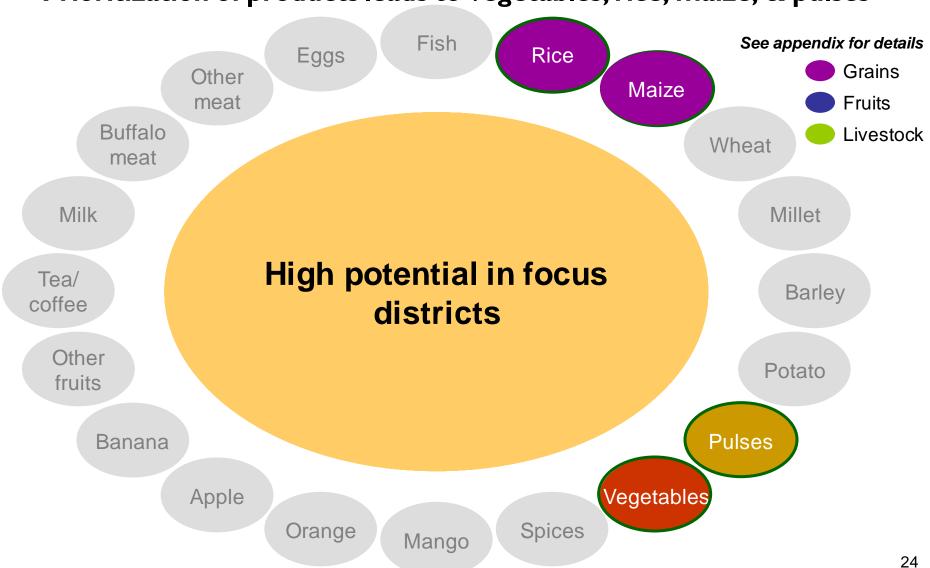






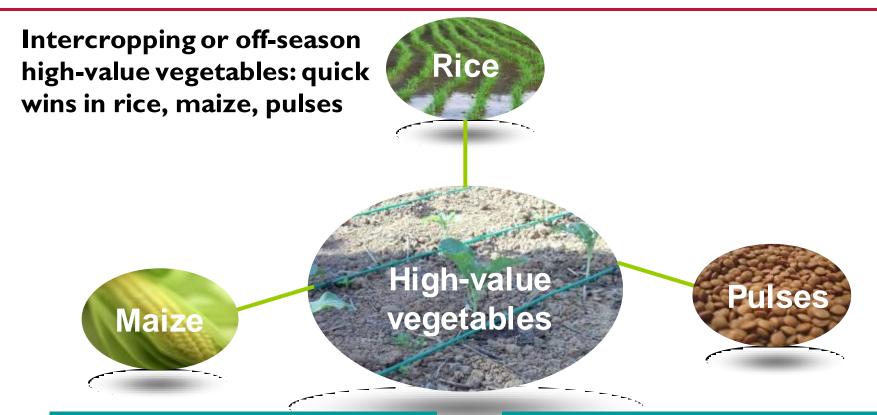












#### **Vegetables**

- High impact potential for income & nutrition
- By 2015, domestic demand will be 1.4 times current production<sup>1</sup>
- Competitive supply potential<sup>2</sup>
- Focus on farming systems and driving supply expansion

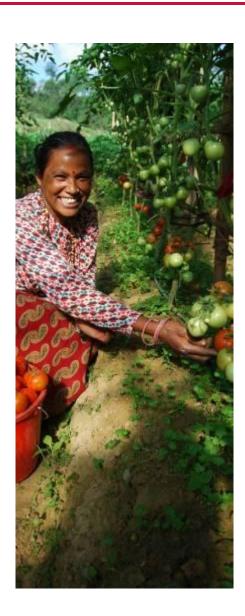
#### Staple systems

- High impact potential: Rice and Maize are #1 and #2 most produced staples
- Pulses are key source of protein
- Quick wins with existing technologies: early harvest rice, protein-rich maize seed dissemination, intercropping with vegetables



## Interventions with Highest Potential CHANGE FUTURE





## **USAID** proven impact of irrigation and vegetable interventions

Proven with over 100,000 farmers over past 10 years, including in Feed the Future target region

#### Proven *direct* impact

- 200-300% increase in household income (from \$350 up to \$1200)
- 685% average increase in sales per hectare
- 7x higher labor productivity

... over 2-3 crop cycles

#### Proven indirect impact

- 30-40% diffusion effect
- Increased food quantity, quality and diet diversification
- Purchase of productive assets (e.g. livestock)
- Improved loan repayments, savings, school enrollment, homes; lower migration



## **Contents: Nepal Strategy**





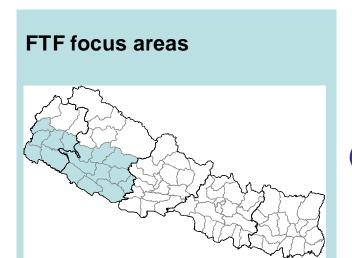
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  - 13<sup>th</sup> poorest country in the world
  - Extreme food insecurity
- Interventions with Highest Potential
  - High value vegetables with rice, maize, pulses
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## Feed the Future will scale up and enhance USAID proven implementation models targeting 160K farmer households (1m people) 1

Feed the Future major components



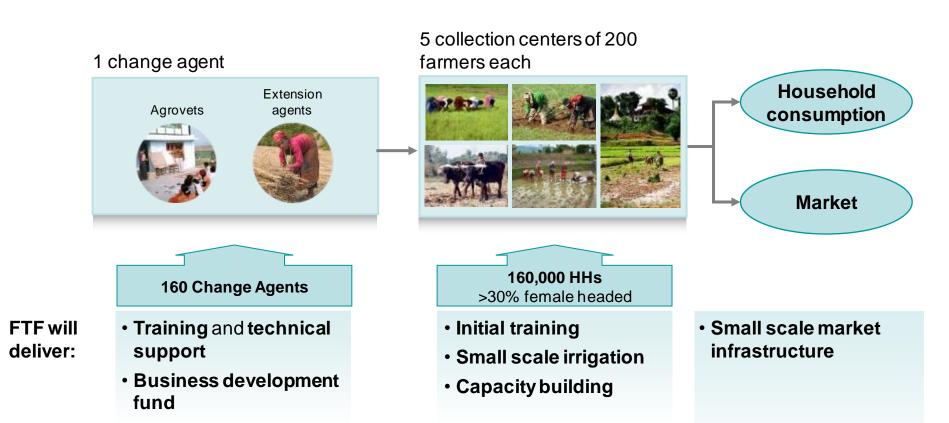
- Increase number of crop cycles per year
- Increase productivity of high value vegetables with complementary impact on rice, maize and pulses
- **B** Change behaviors
  - Improve diets
  - Deliver services for nutrition and hygiene
- Integrate vulnerable groups so they benefit from ag. and nutrition interventions (A & B) at full potential

**Monitoring & Evaluation** 





#### Component A: Develop commercially-driven agriculture change agents







#### Component B: Nutrition/hygiene education and service delivery

1 change agent & 1 facilitator



Nutrition/ hygiene volunteers



**Community** facilitators

1 community of 100 HH (600 people)



Household consumption

Market

## 2,000 volunteers & 2,000 facilitators

## FTF will deliver:

- Nutrition & hygiene training of volunteers
- Training of trainers (TOT) to supervise existing volunteers and train new recruits

#### 1,700 communities; 1m people

 Support of volunteers to educate HH and deliver services

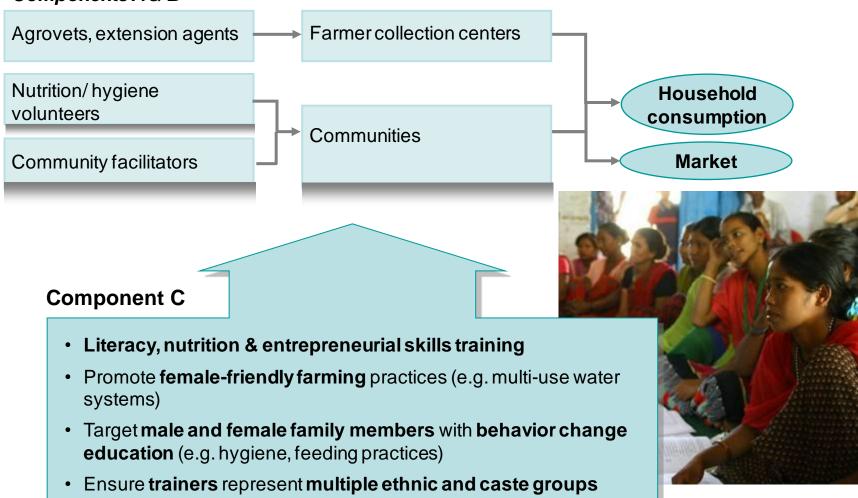
- HH-based education
  - Feeding and hygiene practices
  - HH food production and preparation
- Service delivery
  - Micronutrient supplement
  - Acute malnutrition





#### Component C: Empowering vulnerable groups

#### Components A & B







#### Whole of Government Not present today Inputs & farming **Post harvest Marketing** Consumption Peace Peace Peace GCC FTF FTF Corps Corps Corps Value chain USAID EG **GHI USAID USAID EG USAID EG USDA** Voc Ed Government **MCC** capacity,

policy and **USAID USAID & USAID/** STATE **FTF GCC** enabling **NASA** EG DG environment CSISA **CRSP USDA** GCC GHI S&T FTF **USAID EG Finance** Infrastructure DOD/PACOM ::: MCC





#### All USG assets combined for FTF interventions



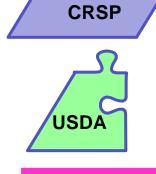


- Seed regulation
- Contract Farming Act
- Ag. Credit services
- Int'l Visitors Leadership Program
- Sponsorship of key speakers
- Fulbright and Humphrey programs
- SERVIR satellite tracks glacial melting, surface water for irrigation, and improves response to droughts, flooding, etc.

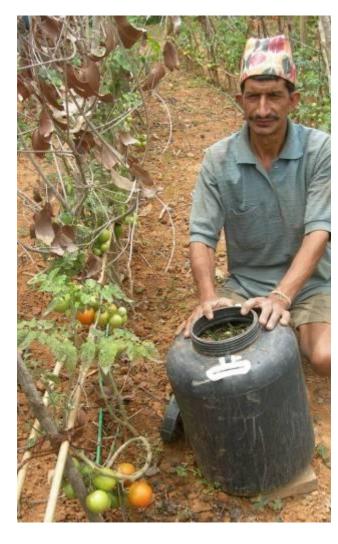


- Horticulture: technology for postharvest drying, seed storage
- **SANREM**: conservation agricultural production
- Nutrition: impact of agricultural interventions on nutrition outcomes
- School feeding program



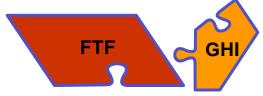




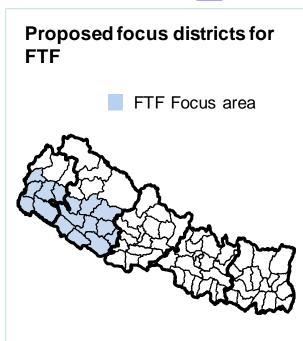








#### FTF & GHI complement each other



#### **Integrated Nutrition Program: 2-pronged approach**

- \$2m per year set aside from GHI for nutrition interventions in FTF target districts
- \$46m for broader national nutrition program (INP)

#### Interventions: Coordination & harmonization

- Comprehensive nutrition/hygiene interventions
- FTF will leverage technical resources from Integrated Nutrition Program (INP)

#### **Impact: Opportunities for learning**

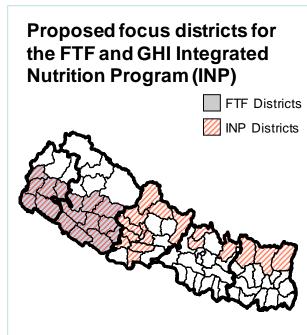
Leverage Nutrition CRSP to set up FTF and INP impact evaluation research







## Feed the Future & Global Health Initiative complement each other



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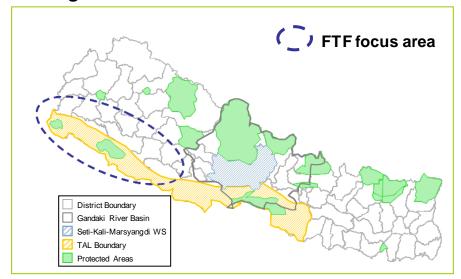






## Climate change initiative will improve resilience in Feed the Future focus areas

#### Global Climate Change focus areas



## Global Climate Change illustrative activities Biodiversity Conservation (\$7.5m/5 years)

- Empowering communities to manage and benefit economically from forest resources
- NTFP<sup>1</sup> production, value added processing
- Address threats to local ecosystems on which food security depends

#### Adaptation to climate change (\$12m/5 years)

- CC adaptation policies
- Education/awareness
- Water resources management
- Adapted crop varieties
- Vulnerability mapping, monitoring, and reporting









## Feed the Future uses effective ways of engaging GON at each level of government

FTF engagement with GON

## National Planning Commission

Improve capacity for inter-ministerial coordination

#### **Ministry**

- US-GON engagement to drive policy priorities (Contract Farming Act, seed regulation, Ag. credit services)
- Drive MoAC to incorporate nutrition mindset in operations
- Small funding to MoAC to test capacity to deliver

## Regional Directorates

**District Offices** 

- Prepare for future decentralization
- Involve MoAC extension agents as additional change agents





#### Collaborate with and complement other donor programs

#### Ongoing & upcoming donor programs...



- · Agriculture commercialization and trade
- · Roads, irrigation & water management
- Poverty alleviation fund
- Direct financial and technical assistance to MoHP



- High mountain agribusiness & livelihoods
- Raising incomes of small and medium farmers
- Crop diversification and commercialization
- Commercial agriculture development program



- Improving business forum
- Small enterprise dev. fund, SME venture risk capital
- Microfinance sector development
- Direct Investment in value chains (seeds)



Pro-poor value chain



- Challenge fund for agribusiness
- Direct financial and technical assistance to MoHP



- Food security monitoring system (NekSAP)
- MCH, school feeding, Food/Cash for Work



- Food facility for most vulnerable areas
- Training in food safety and Ag. trade

...complement and multiply FTF impact

- **Financing** for private sector agents across agricultural value chains including horticulture
- Productive infrastructure in FTF areas
- Scale-up of evidence-based nutrition interventions
- Improves purchasing power of Mountain populations to access food from Hills/Terai
- Investments in post harvest handling, value addition
   & marketing in Western Terai/Hills
- Similar interventions to FTF but in the East
- Improves policy and regulatory environment
- Increases credit available to finance activities/assets relevant to agriculture
- Contributes to increased productivity
- Increased reach to poor and vulnerable (10 West & Mid-West districts)
- Increased financing available for agribusiness
- Scale-up of evidence-based nutrition interventions
- Market Watch provides early warning information and serves as data collection support for impact evaluation
- Emergency relief in extreme hunger areas
- Increased capacity for export market







## Presence of additional USG agencies could multiply effect

Short term Medium term Longer term

DoD/PACOM MCC threshold Peace Corps

Targeted investment in Policy and government Community training and

Targeted investment in productive infrastructure

 PACOM: Multi-use shelters for disasters, also used as collection centers in normal times  MCC Threshold: technical assistance to write new legislation; build government technical capacity in required areas

capacity to achieve Compact

Community training and development

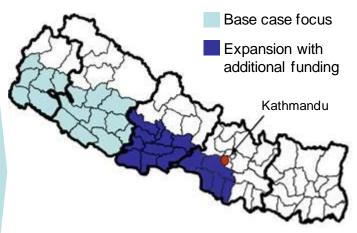
 Peace Corps: Ag. training to non-target HH; communitybased production & storage; nutrition and hygiene education





#### Potential for Increased Impact with Additional Funds

Expansion of program to another 15 districts at lower cost per farmer



- Additional 160K farmer households
- Cost per farmer HH down through cost leverage
- Support agribusiness for export market

#### **POTENTIAL FOR IMPACT**

- Additional 160K farmer households (1m people)
- Expanded market potential (e.g. SPS standards)





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  - High value vegetables with rice, maize, pulses
  - Proven interventions ready to scale
- Proposed USG Engagement
  - Focus on districts to reach most number of hungry, poor
  - All USG agencies brought to bear
  - Coordinated with GON and other donors
- Impact



#### **Impact**



## **Preliminary Dashboard**

### Cost per person out of poverty: \$160 over 5 years

#### Focus areas

#### Geography

1. 16 districts in Far-West and Mid-West Terai and Hills (5.4m population 2010; 5.9m 2015)

#### Value chains

- Vegetables
- 2. Rice, maize, pulses

#### Interventions

Integrated intervention

- A) High value agricultural transformation
- B) Nutrition and hygiene interventions
- C) Integration of vulnerable groups

#### Goal level indicators (for selected target region)

#### **Poverty**

By 2015, poverty reduced in target region reduced from

- 3m out of a population of 5.4m to 3m out of 5.9m (estimated future pop)\*
- > 55% prevalence to 50%

#### **Nutrition**

By 2015, # of underweight children in target region reduced from

- 310K out of 737K to 235K out of 810K (est. future pop)\*
- ▶ 42% prevalence to 29%



## **Impact**



## **Impact Indicators**

•		
Overall FTF goals (Forecast includes anticipated impact of other donors & GON)	Baseline	2015
Prevalence of poverty (under \$1.25/day)	• 55%¹ (2004)	• 30%³
Prevalence of underweight children under 5	• 39%² (2006)	• 29%³
National level (Forecast includes anticipated impact of other donors & GON)	Baseline	2015
Expenditures of rural households (by proxy)	• TBD	• TBD
Prevalence of wasted children under 5	• 13%² (2006)	• 5%³
Prevalence of stunted children under 5	<ul> <li>49%² (2006)</li> </ul>	• 28%³
Project level (Indicators listed only for interventions relevant to Nepal mission)	Baseline	2015
Improved ag productivity		
<ul> <li>Gross margin per ha of target crops</li> </ul>	• \$200	• \$2,000
Improved access to markets		
<ul> <li>Value of incremental sales (collected at firm level) attributed to FTF implementation</li> </ul>	• N/A	• \$160m
Increased agricultural sector jobs		
<ul> <li>Number of jobs attributable to FTF implementation (firm level survey)</li> </ul>	• N/A	<ul> <li>160 change agent and \$4.6m in labo</li> </ul>
Improved access to diverse & quality foods		
- Proportion of population below minimum level of dietary energy consumption	<ul> <li>40%<sup>4</sup> (2005)</li> </ul>	• 25%
Improved nutrition related behaviors		
<ul> <li>Prevalence of exclusive breastfeeding of children under 6 months</li> </ul>	• 30.6%² (2006)	• 60%5

NOTE: To be disaggregated by sex, ethnicity and caste as appropriate