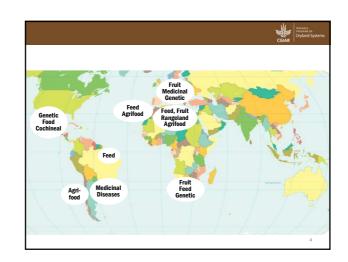




Some statistics Need to be updated Regions/countries Area cultivated, (x 1000 ha) 600 Brazil Other South American Countries 75 Mexico 230 + 3 M Other North American countries 16 Tunisia 600 Algeria 150 Morocco 150 70 Italy Total 1891 + ~ 3 M



Cactus helping the rural poor in the World...

- Mauritania
- Ethiopia
- Iran
- India
- Libya
- Arabian Peninsula
- Morocco
- Tunisia
- Etc...

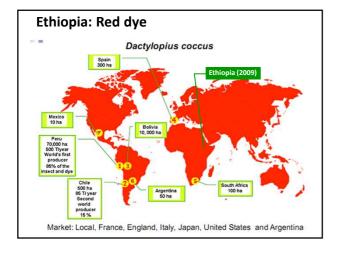


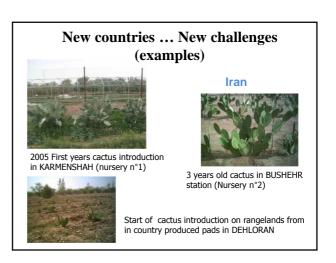


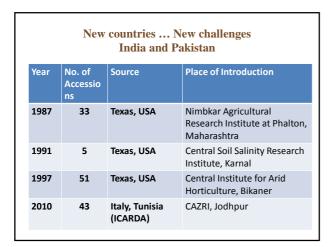


















Cactus Pear-Progress of work in India

- Adaptability Trials
- Jodhpur, Rajasthan
- Bhuj, Gujarat
- SBS Nagar, Punjab
- Jhansi, Uttar Pradesh
- Karnal, Haryana
- Bikaner (Two Locations), Rajasthan
- Agrotechniques-Jodhpur, Karnal
- Utilization-Karnal, Jodhpur, Avikanagar
- Prospects

Future Thrust and Issues

- ✓ There is need to introduce the best available varieties and extensive acclimation and evaluation is required before it is expansion
- ✓ Policy support from government is needed
- ✓ International collaboration with countries where the crop is commercially cultivated and is a part of their diet is needed for exploring such avenues in India
- ✓ Coordinated effort within the country is needed to promote cactus and its linking with the already existing international network on cactus.

New countries ... New challenges (examples)

- Introduced by Italian colons early 1900th
- ICARDA introduced around 50 accessions from Italy (Univ. Palermo and Sassary)
- Rainfed (fruit)











In 2004, 38 accessions of spineless cactus were introduced from Tunisia. A nursery was established in Rumeis, Oman







Adaptation of these accessions to Arabian Peninsula environmental conditions was assessed.



- Water requirement
- -Tolerance to salinity
- Tolerance to hail



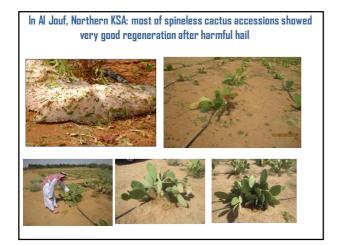


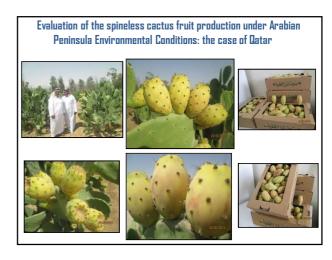
Spineless cactus transferred from mother nursery in Oman to pilot growers in all AP countries





In 2014, total accumulative number of growers adopted the spineless cactus in all AP countries reached 35.



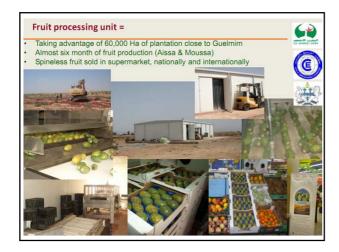


















Japan-Morocco partnership, Green Morocco Plan



✓ JCB enterprise (Japan) is investing in Sidi Ifni an oil extraction unit to produce 5000 liter from 40,000 ha (launching 2016)



√The Moroccan Green Plan (MGP/ Pillar II)
is investing 9 million \$US in cactus value
chain for the benefit of 27000 farmers.

Tunisia
 Introduced by the Moors from Andalusia
 Traditionally used for fencing (land appropriation, livestock feeding, fruit)
 Italian colons introduced improved varieties & scozzaltura one century ago
 Rangeland improvement and soil & water conservation since 60's
 Recently modern orchard for fruit production (local market & export), transformation
 Investment in research

6



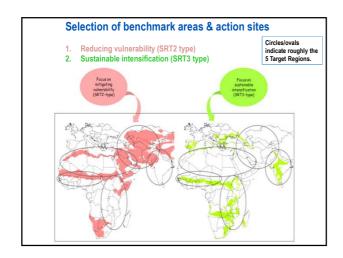


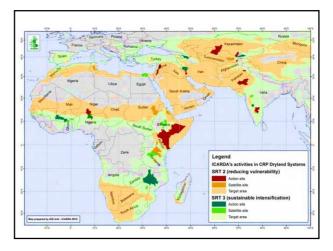












CRP-DS Goal & Partners

- Goal: to identify and develop resilient, diversified and more productive combinations of crop, livestock, rangeland, aquatic and agroforestry systems that increase productivity, reduce hunger and malnutrition, and improve quality of life for the rural poor.
- ICARDA (Lead Center) and 8 CG Centers
 - ICRISAT
 - Bioversity International
 - CIAT
 - CIP
 - ICRAF
 - ILRI
 - Sub-Saharan Africa Challenge Program (SSA CP)

