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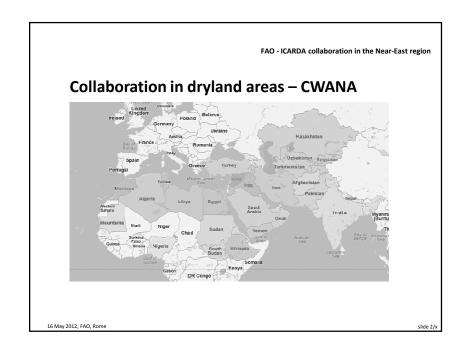
for Sustainable crop production in the Near-East region



31th Near East Regional Conference, 2012

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FAO's Plant Production and Protection Division (AGP)

→ Promotes Sustainable Crop Production Intensification

Areas of intervention:

- Seeds and Plant Genetic Resources
- Conservation Agriculture and Ecosystem Services
- Farming system and Crop Production
- Pests prevention and Pesticide Management
- Horticulture and Industrial Crops
- Plant Production for Climate Change





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AGP - ICARDA sectoral collaboration

KEY AREAS OF PARTNERSHIPS

- Conservation Agriculture
- · Rangelands/grasslands systems
- Plant Genetic Resources (PGR)
- Seed sector development
- · Wheat rust management
- Biotechnology capacities
- Regional Networks

TYPE OF COLLABORATION

- · Technical consultations
- · Trainings and capacity building
- · Networks and partnerships
- Joint missions

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Collaboration in Conservation Agriculture

- Promotion of CA in Morocco and Jordan, facilitated with ICARDA promoted equipment
- Regional workshops on CA in Maghreb (Algeria, Tunisia, 2010-12)
- · Jointly implemented projects:
 - Sustainable agriculture practices in the drought affected region of Karakalpakstan (2003-2007)
 - Conservation Agriculture for Irrigated Areas in Azerbaijan, Kazakhstan, Turkmenistan and Uzbekistan (2010-2012)









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Collaboration in Rangelands/Grasslands

- → Rangelands/Grasslands represent 70% of the agricultural area in the world and are an irreplaceable resource for livelihoods
 - 8th International Conference on Dry Lands Development:
 Human and Nature Working Together for Sustainable
 Development of Dry Lands, China, 2006
 - 9th International Conference on Dryland: Development Sustainable Development in Drylands – Meeting the Challenge of Global Climate Change, Egypt 2008
 - International conference on Food Security and Climate Change in Dry Areas, Jordan, February 2010







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Implementation of Global Plan of Actio

- > The GPA has helped catalyze a series of global and national initiatives for conservation and use of crop diversity
 - · Some 15 regional or crop specific networks established,
 - Over 300 new genebanks established and the total number of accessions in collections worldwide has increased by approximately 20% since 1996,
 - · New instruments and legislations on plant breeders rights, seeds, biosafety and farmers rights in place,
 - · Greater protection to crop wild relatives with expansion of protected areas,
 - · Global increase in awareness, international collaborations and partnerships

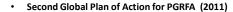
	ICARDA genetic resources	
n	Crops	Accessions
	Сторз	conserved
	Barley	24998
	Wild Hordeum	1977
	Bread wheat	13576
	Durum wheat	19592
	Primitive wheat	912
	Wild Triticum	1584
	Aegilops	3985
	Faba bean	9424
	Chickpea	13553
	Wild Cicer	270
	Lentil	10425
	Wild Lens	587
	Lathyrus	3341
	Vicia	6143
	Medicago	8397
	Trifolium	4536
	Pisum	6105
	Other range	5782
	species	
	Others	219
	Total	135,406

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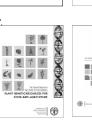
Partnership for conservation and use of PGRFA

- · Second State of the World report on Plant Genetic Resources for Food and Agriculture (SOW-PGRFA)
 - Report for the Near East and North Africa region
 - Two thematic studies "Managing plant genetic resources the agro-ecosystem: global change, crop associated biodiversity and ecosystem services" and "Plant genetic resources for forage crops, pastures and rangeland species."



- The Near East, North Africa and Central Asia Consultation







Collaboration in crop management

- · International Treaty on PGRFA
 - Third and the Fourth Sessions of the Governing Body
 - Involved in the panel of experts to evaluate proposals
- Preparation of Genebank standards
- Participatory Plant Breeding
- IPM and pest management
- Diversification and horticulture









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Seed sector development in ECO region

- Strengthening the Seed Supply in the ECO Region with specific emphasis on Central Asia.
- ECO members: AFG, AZR, Iran, KAZ, KYG, PAK, TAK, TURK, TUR, UZB
- Implementation from 2006 to 2009:
 - Harmonization of regulatory framework for ECO member countries on variety release mechanism, PVP, Sanitary and phytosanitary measures and seed certification scheme
 - Capacity strengthening on seed marketing
 - Establishment of a regional seed association (ECOSA, 2009)
 - Consultation meetings
 - Preparation of country and regional reports

ciation (ECOSA, 2009)

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Collaboration in Seed sector development

- Emergency seed relief and rehabilitation projects
- Afghanistan Variety and Seed Industry Development Project
 - Establishment of a Variety Registration System
 - Second Annual Seed Analysts Workshop (4-6 May 2010)
 - Joint publication: National Catalogue of Wheat Varieties in Afghanistan (2011)



- Rehabilitation and Development of the National Seed Industry in Iraq
 - Training in variety description and maintenance (March June 2008)
 - Study tours to Syrian seed program and ICARDA (1-15 January 2009)

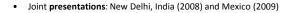


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Collaboration in fighting Wheat Rust

- Awareness and Contingency planning
- Series of National and Regional Wheat Rust Awareness and Contingency Planning Workshops: North African, West- and Central Asia, Turkey, Azerbijan, Syria, Morocco and Egypt,



- Joint field visits: Mexico (2009) and Tunisia (2009)
- Join publication: Principles for Rapid Variety Release, Seed Multiplication and Distribution in Developing Countries to counter the Threat of Wheat Rust, Thomas Osborn and Zewdie Bishaw, in Borlaug Global Rust Initiative Technical Workshop Proceedings (2009).







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Strengthening Biotechnology capacities

- → FAO Regional Project with JOR, LBN, SYR, SUD, YMN, UAE (2009-11)
- → Raising biosafety awareness, hands-on training for GMO detection, publications for development of a strategic regional network







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Strengthening of regional Networks

- FAO-ICARDA International Technical Cooperation Network on Cactus (CACTUSNET) (est. 1993)
 - 32 member countries world wide, including Algeria,
 Egypt, Iraq, Iran, Israel, Jordan, Mauritanian, Morocco,
 Pakistan, Syria, Turkey and Tunis



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- International Congresses and Workshops (India 2011, Italy 2013 (planned))
- Cactus as multipurpose biofence project ongoing, India, Jan 2012









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FAO-ICARDA Collaboration-Future direction: Participatory Holistic Partnerships

- Complementary approach: 'Save and grow ' and 'Integrated agricultural production systems for the poor and vulnerable in dry areas'.
- Continue collaboration to mainstream drylands into regional and global priorities:
 - Joint projects, networks and fund raising RNE regional priorities
 - Analysis of constraints and indicators to develop integrated approach
 - Partnerships for promotion of seeds, cereals and legumes production
 - Promote diversification and use of adapted crop diversity
 - Platform for participatory technology development with farmers



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Tackling the Global Challenges - TOGETHER

- Eradicating hunger
- Increasing production and its contribution to economic growth and development, while ensuring sustainable ecosystem management and strategies for tackling climatic change
- Improving livelihoods of the population living in rural areas, including smallholder farmers, in particular women
- Ensuring a **fairer and more inclusive** food and agriculture systems at local, national and international levels
- Increasing **resilience** of livelihoods to agriculture and food security threats
- Strengthening governance mechanisms for the needs for food and agriculture

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Thank you for your attention!



www.fao.org/ag/agp
www.fao.org/ag/save-and-grow

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