



RESEARCH
PROGRAM ON
Dryland Systems



Overarching Flagship 2015 Plan of Work and Budget

Revised: JUNE 2015

*Food security and better livelihoods
for rural dryland communities*

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Table 1. Overarching Flagship – IDOs

Level of Organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
<p>O.Overarching Program</p>	<p>Gender and Youth, Geoinformatics, Data Management, Intellectual Properties, Communications and Knowledge Sharing, Capacity Development, Integrated System Analysis and Modelling</p>	<p>Progress towards CRP IDOs and indicators of progress</p> <p>ID01 & 2</p> <ul style="list-style-type: none"> • Justified entry points and integrative leverages for feasible transitions of major agricultural livelihood systems towards improved and stabilized food production and dryland livelihood (2016); • Accessible options-by-context for three major dryland ALS (2016) <p>ID03</p> <ul style="list-style-type: none"> • Assessment of the global pattern of major dryland ALS, their productivity gaps and decadal dynamics of the productivity of the croplands and grasslands in central Asian action sites (2015); • Consolidated system-whole and context-sensitive options for improving food security in major dryland ALS (2016); <p>ID04</p> <ul style="list-style-type: none"> • Quantification of land degradation pattern and hotspots for NARS, NGOs prioritize resources for development actions reversing land degradation (2016); • Justified leverages for improving multi-stakeholders' incentives to invest and adopt SLM practices aiming enhancing natural resource bases in dryland agro-ecosystems (2016) <p>ID05</p> <ul style="list-style-type: none"> • At least 10% (20% in 2016) of the NARS and Partners out-scale gender equitable development interventions regarding extension services and gender wage gap. (2015) • 10% of women in farming in the targeted areas report improved access to & scope of extension services (2016) • 10% increase in female and male youth in target areas aiming at a livelihood as professionals in agriculture (e.g. as commercial farmers, in agro-processing business, in agro-services) (2016) • 50% NARS and Partners in target areas informed about norms-based options to increase the equity of women and men in decision making especially on labour and on use of income, in access to resources such as knowledge and in ownership of agricultural assets (2016) • Provision of information resources through CRP-DS web-based geo-to youths 	<p>1,416.328</p>

Level of Organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
		<p>and women.</p> <p>ID06</p> <ul style="list-style-type: none"> • Research and educational capacities of relevant, junior scientists in NARS, Centres and their connection to international peer community improved. 	

Table 2. Overarching Flagship Cluster of Activities

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
0.1	Gender and Youth	<p>Location: Global (across the 5 Flagship regions of CRP-DS)</p> <p>Objectives:</p> <p><u>Extension services:</u> Identify the differential challenges faced by female, male farmers and youths in accessing agricultural extension services; Identify entry points and options for gender-responsive agricultural extension approaches which address the specific requirements of female and male farmers as well as youth.</p> <p><u>Norms:</u> Assess the differentiated labour and development opportunities that rural women and men of different ages and socioeconomic backgrounds have in their communities or abroad, given their new roles (male work migration) or existing roles (agricultural labourers) to measure, understand and develop suggestions for change regarding the gender gap; Identify social norms that allow perpetuating the gender gap and constraining factors to empower</p>	<p>Outputs: (Kano-Katsina-Maradi Transect (Mali and Niger)) Constraints, opportunities for women (incl. women under 30 yrs.) in accessing and benefiting from extension systems; strengths and weaknesses in providing extension services to women identified with 400 farmers per site; Several workshops will be organized for extension staff (state, NGO and private sector) to share the research findings, jointly develop ideas for changes in the approach to agricultural extension, and to exchange first experiences with implementing these changes with the aim that these inform and transform the approach towards gender in extension; Contribution to systems methodology for gender-responsive research; first steps to comparative study with other Gender Strategic Research on extension services conducted in other DS sites. (Saiss (Morocco); Nile Delta (Egypt)) Closer description of the gender wage gap in agricultural labor disaggregated re gender and age and identifying the main drivers and constituting elements: informing 3-5 development agencies and/or NGOs and 5 policy-makers on addressing and closing the gender wage gap in agricultural labor in the action sites; Contribution to the literature (2 papers, 1 report) on the gender gap re labor and wage, and on more equitable development opportunities and migration policies; Contribution to systems methodology for gender-responsive research; (Chinyanja Triangle (Changara-Ntcheu/Dedza) Transect) Several workshops will be organised for extension staff (state, NGO and private sector in Ntcheu) to share the research findings, jointly develop ideas for changes in the approach to agricultural extension, and to exchange first experiences with implementing these changes with the aim that these inform and transform the approach towards gender in extension; Three international public goods: policy, brief, article in reviewed journal, reviewed research report; first steps to comparative study with other Gender Strategic Research on extension services conducted in other DS sites. (Fergana Valley (Kyrgyzstan, Tajikistan and Uzbekistan)) Based on the identification of the gender wage gap in agricultural labor, it is expected that despite of the budget cut at least 2 development agencies and policy-makers of Uzbekistan will be sensitized on addressing the gender wage gap in agricultural labor in the action sites and Central Asia more generally; (Rajasthan (India), Karnataka (India)) Constraints and opportunities for extension system improvement identified by gender and age; Gender balanced capacity development strategies for extension professionals developed; Documentation of needs for extension services by</p>	445.450

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
		<p>women and youth in the mixed dryland farming systems; Understand the aspiration of youth to advance agricultural entrepreneurship and innovative capacities of young women and men to strengthen their engagement in agriculture.</p> <p><u>Methods:</u> Statistical exploratory methodologies; (household) surveys (one using mAgri™ agent network) combined with qualitative data collection (mostly through focus groups, also key informant interviews); Series of case studies and ethnographic research to design a survey questionnaires and deepen quantitative analysis; Framing analysis in GAAP, WEIA gender frameworks re development outcomes; Analysing decision making and transaction trajectories embedded in socio-economic, cultural systems analysis</p>	<p>gender; Contribution to the literature (1 report) on making extension services more gender-responsive; Contribution to systems methodology for gender-responsive research; first steps to comparative study with other Gender Strategic Research on extension services conducted in other DS sites. (Youth & Gender across five DS regions) Through a gender-responsive system approach, a thorough understanding of the situation, of needs and aspirations of young people in the target areas; Research that contains the real voices of young people on agriculture and rural livelihoods, technologies, innovations, ICT in agriculture and their suggestions for action; A sound basis on which to plan and develop programs to accurately target the needs and desires of young people; Documented studies that enable others to elaborate a capacity development plan for youth in agriculture (incl. online options) and advocate on behalf of youth in the CRP target areas, using sound data; 1 Publication on strategic gender research; 1 Guideline for gender-responsive research; 1 Toolkit on gender-responsive research and gendered systems research; 5 Gender & System workshops; 1 Gender Working Group meeting; Visibility activities on international women’s day and rural women’s day:</p> <p><u>Outcomes:</u> (Kano-Katsina-Maradi Transect (Mali and Niger)) Extension, veterinary services and other agricultural service delivery systems adopted policies and programs to explicitly reach women and disaggregate the statistics of their outreach by sex; Women accessed and used agricultural innovations, information, finance and other inputs and services to increase production and productivity, value addition, and incomes; (Saiss (Morocco); Nile Delta (Egypt)) Policy reforms improving gender equity in in working conditions and wage for agricultural labor implemented; (Chinyanja Triangle (Changara-Ntcheu/Dedza) Transect) Policy reforms (first steps) improving gender equity in access to agricultural technology, assets, services and markets implemented; Extension, veterinary services and other agricultural service delivery systems adopted policies and programs to explicitly reach women and disaggregate the statistics of their outreach by sex and age; (Fergana Valley (Kyrgyzstan, Tajikistan and Uzbekistan)) Policy reforms (first steps) improving gender equity in access to agricultural technology, assets, services and markets implemented; (Jodhpur, Barmer and Jaisalmer districts, Rajasthan (India); Bijapur district, Karnataka (India)) First steps to the following outcomes: Policy reforms improving gender equity in access to agricultural technology, assets, services and markets implemented; Women accessed and used agricultural innovations, information, finance and other inputs and services to increase production</p>	

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
			<p>and productivity, value addition, and incomes; Rural women have accessed markets, and innovations to improve their livelihood and the one of their family and community; Extension, veterinary services and other agricultural service delivery systems adopted policies and programs to explicitly reach women and disaggregate the statistics of their outreach by sex and age; (Youth & Gender across five DS regions) Obtained rigorous and up to date data disaggregated by sex on country and culturally variable drivers, aspirations and challenges of youth with respect to youth’s engagement in agriculture; Enabled real youth representation as young representatives have concrete data to enable them to speak on behalf of the youth contingent; More targeted programs developed in the Dryland Systems CRP targeting the expressed needs of young farmers, entrepreneurs and professionals active in agriculture, e.g. in capacity development;</p>	
0.2	<p>Geoinformatics (GU) Data Management (DM) Intellectual Property (IP)</p>	<p>Location: Global (across the 5 Flagship regions of CRP-DS)</p> <p>Objectives: Development of the Geospatial Science, Technology and Application (GeSTA) in an integrated agro-ecosystem system research and outreach;</p> <p>Building a data sharing culture and publishing; Developing suitable processes, infrastructure and guidance that meet researchers’ needs; drawing on existing center structures with respect to research data management and curation practices; Promoting the integration of center based Data Management systems with CRP Research Repository to show clear and obvious links between research outputs and their</p>	<p>Outputs: Mapping CRP DS Activities on the ground, site areas, and related data streamlining, online visualization, map servers, coordination activities with CO’s CRP mapping tools; Maintenance of climate station, daily data collection and reporting, web-tools for Open Access; Data Storage and Archiving Systems; Geoinformatics Capacity and Support; GeoAgro Portal, in-house-support for M&E tool, Cyberinfrastructure facility for data archiving, processing and analysis; Development of satellite based algorithms, methods, datasets for mapping, monitoring and assessment of Agro-Ecosystems at farm to landscape scales (beta version for CA); Infrastructure (basic, physical storage) for hosting CRPDS database; GeoAgro portal for agro-ecosystems; Trainings and workshops with partners and NARS identifying data types, data quality issues, restrictions on their use and exchange, and mechanisms to store it; Online training courses and strategic guidelines and protocols for research data quality and research data management; Contractual tools; Trainings and workshops with partners and NARS to identify internal intellectual assets and create mechanisms that leverage collaboration strengths; Brands that build confidence as to products’ quality; Stewardship of germplasm and pest control agents, privacy/political risks associated with sharing and distribution of some types of data, reputational risks, concerns about quality control along the entire value chain;</p> <p>Outcomes: Leveraging the role of the Geospatial Science, Technology and Application (GeSTA) in an integrated agro-ecosystem system; Better understanding of the spatial-temporal</p>	333.909

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
		<p>underlying data; Promoting the uptake of best practices for research data management in all CRP funded projects</p> <p>Maximizing the distribution and impact of research products with the management of Intellectual Assets/Property including Open Access mechanisms; Ensuring compliance with international obligations on the use of genetic material</p> <p><u>Methods:</u> An integrated Geoinformatics application in system research and modelling; Annual and seasonal dynamics and trend analysis in vegetation change and hotspot analysis (for CA); Geospatial modelling and monitoring of the agro-ecosystems at various spatio temporal scales (for CA);</p> <p>Full time Data Manager with the support of an IP Specialist; Participation to CGIAR-wide networks and Communities of Practice; Integration of Data Management into high level management of CRP; IP and legal specialist for the CRP DS; Participation to CGIAR-wide</p>	<p>dynamics of the land degradation pattern and productivity in 1 flagship and two action sites; Quantification of the land use and land cover dynamics in at least one flagship/regions and 2 action sites; Better understanding of the system approach at spatial scales from landscape level to farmscape; Improved integration and outscalling option for agricultural livelihood systems (ALS); Established linkages with NARS and Agro-ecosystem stakeholders in the region (CA);</p> <p>CRP wide mainstreaming of open access and best practices for research data management; Donors and partners using data generated by CRP DS Guidelines on data management, storing, and sharing for partners and NARS; Understanding of links between data, knowledge generation and the effectiveness of investments towards improving the food security and income of rural communities that live in dry areas by donors and partners;</p> <p>Templates, clauses, and drafting notes; Policies and Guidelines for collaborators/NARS; clear understanding of roles, rights, and responsibilities of each party; Production and sale of products for niche markets, at local, regional and international levels incentivizing local enterprise development; regular blog posts on updates and developments; Register of held on trust material and material received and modified;</p>	

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
		networks and Communities of Practice; Integration of IP Management into high level management of CRP;		
0.4	Communication and Knowledge Sharing	<p>Location: Global (across the 5 Flagship regions of CRP-DS)</p> <p>Objectives: To provide a credible and authoritative platform for scientific information, knowledge and tools on drylands agriculture; To actively reach out to and mobilize staff, partners and beneficiaries at all levels; To facilitate user-driven research, science-based dialogue, knowledge sharing, and evidence-based policy, among key partners;</p> <p>Methods: 9-step Process of Communications Planning linking Research to Development Outcomes</p>	<p>Outputs: Establish Network of Communication Focal Points with ToRs and rotating leadership, with representation from each center and links to gender focal points and data manager focal points and other CRPs; Network of Comms Focal Points conducts situational analysis and outlines priority tasks for developing and implementing a strategy for Communications and Knowledge Management with wide participation from all centers; Create synergies with other CRPs; Dryland Systems is an active participant and contributor in the KM4CRPs initiative; Finalize and Implement Program Branding Guidelines; Dryland System brand is widely recognized and globally positioned; Identify new and/ or re-vamp existing tools for external and internal communication (i.e. website, shared collaboration spaces, social media, etc); Program website, Open Access knowledge repository, and social media tools widely used and updated by partner centers and other actors collaborating with the program; Develop and disseminate program-wide guidelines and templates for capturing information on research outputs and stories of impact; Annual calendar of external strategic side-events and program activities created and used widely throughout the program; E-Monthly Update-established to disseminate program news and drive critical debate on select policy issues; Partner centers submit program research outputs and impact stories through a variety of mediums (publications, photos, written articles, etc) on a regular basis as per annual plan of communication activities defined in collaboration with Program Communications; Various Branding, Communication and Reporting templates are created, disseminated and utilized successfully by all partner centers; Identify and utilize target knowledge multipliers to help disseminate research results and best practices more widely and connect to a wider multi-disciplinary audience; Created and disseminate standard package of program promotional materials as well as targeted communications materials to promote dryland issues to potential donors and investors(animation video, infographics, etc.); Provided support and guidance to partner centers in developing appropriate activities and products to communicate the brand and impact of program to internal and external audiences; Identified list of salient policy issues and strategic side-events for strategic engagement of the program at global level; Define relevant targets and monitor and evaluate results for each stated indicator above.</p>	249.699

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
			<p>Outcomes: Dryland Systems becomes increasingly viewed as the leading source and disseminator of science-based knowledge and information on dryland agriculture development to benefit both the poor and the environment of target dryland systems through the use of innovative, relevant and appropriate communication tools and processes; Dryland Systems creates, fosters and sustains an organizational culture of knowledge sharing and learning that engages all staff and partners in the process of gathering, developing and deploying intellectual/research capital to facilitate realization of overall programmatic goals, at all levels; Dryland Systems activities and research results are effectively communicated in ways that will engage, influence and positively affect the behavior of target local, regional and global audiences to undertake policy actions and/or social mobilization on salient policy issues affecting the lives of people and communities in the dryland areas;</p>	
0.5	Capacity Development	<p>Location: Global (across the 5 Flagship regions of CRP-DS) Objectives: To develop the capacities of core individuals, organizations and systems through the dissemination and exchange of relevant quality knowledge and skills following systematic needs assessment; To maximize the potential impact of CD interventions by reaching out to stakeholders and meeting their needs through pertinent partnerships with international, regional, sub-regional and local organizations including public, private and non-governmental organizations and farmers and women associations in addition to alumni and beneficiaries of previous CD activities; To ensure</p>	<p>Outputs: Needs assessment surveys from each site; Responses analyzed, synthesized to reflect the CD needs to achieve objective 1; Descriptions developed for all CD initiatives including goals and expected outcomes; ICT used in CD to respond to needs of remote stakeholders. At least one course of MOOCs on a theme identified in the needs assessment is piloted using internet and satellite broadcasting; Priority given to those who can transfer the knowledge and skills they acquire to further populations “train the trainer”; CD interventions developed, delivered to farmer communities (themes: Sustainable intensification and agro-biodiversity, nutrition & health, sustainable natural resources management, communication and negotiation skills, foresight studies, innovation platforms formation); Selected stakeholders participate in CD intervention allowing them to access and share available agricultural knowledge; Core CRP-DS scientists, center representatives and site coordinators participate in a minimum of three central-level interventions a year on the outlined subjects. Learning, documenting learning and sharing learning across teams is an integral part of the project cycle; QA and M&E Systems developed, piloted and approved for full application by the end of 2015; Common data base of beneficiaries developed and used for M&E follow ups and update on new initiatives using web-marking; Core local researchers, women and youth identified and join CD intervention on engendering research and communications; Core research and innovation coordinators identified and join CD intervention on ARI4D platforms formation; Core stakeholders identified to participate in the GCARD3 dialogue process and provide them with the necessary knowledge and</p>	141.750

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
		<p>sustainability of CD efforts through improved focus on resource mobilization at the international, regional and local levels, diversifying and funding modalities, and improving donor relations;</p> <p>Methods: Training needs assessment; Internal and external expertise and diversified tailored CD modalities and delivery mechanisms while applying quality assurance and monitoring and evaluation throughout the process; Participatory partnerships development analysis</p>	<p>skills preparation to effectively contribute to the process; Impacts' M&E mechanism developed at the CRP-DS central level to apply to system-level CD interventions; At least one course on a theme of shared importance; At least one example of collaboration with a university or informal learning center at local level; Existing private sector engagement analyzed and fruitful ones strengthened; Collaborate with GFAR Facility on CD in countries that are targeted by CRP-DS; At least one pilot intervention per site; Resource mobilization as relevant is included in the performance appraisal of CRP-DS staff members;</p> <p>Outcomes: Local stakeholders in each site including small-holder men and women farmers possess the needed knowledge, skills and attitudes that enable them to better discuss and decide their own agricultural futures with their research and policy making counterparts and shape CRP-DS pathways to achieve impact on the ground; Institutional policies at the local/national level have changed to further target the poor through policies such as including agricultural research and innovation as a priority in rural development agendas, improved land allocation and improved market systems; Accountability and impact in national research and innovation systems increased through development towards more strategic coherence & transparent stakeholder involvement; Mechanism for developing, maintaining and strengthening partnerships in CD is developed and applied; Collaborative initiatives strengthened to realize stronger capacities of local agricultural innovation systems empowering them to achieve impacts at scale; Investments in CD increased to better meet the needs of the local stakeholders.</p>	
0.6	Integrated System Analysis and Modelling	<p>Location: Global (across the 5 Flagship regions of CRP-DS)</p> <p>Objectives: To develop an up-to-date, effective framework for researching transitions of agricultural livelihood systems (ALS) capturing grand challenges in dryland development; To create a functioning, well-connected DS working group for</p>	<p>Outputs: CRP-DS's Integrated Systems Analysis and Modelling Group (iSAMG) formulated (mandates, structure, functions, responsibilities, activities identified); Consolidated generic integrated systems framework for researching ALS transitions; One case study site in each DS study region identified for focal integrated system research. Narrative-based system analyses, and context-option matrices implemented in these sites. At least two sites applied quantitative integrated system modelling and provide pilot results; At least one CRP-level integrated systems research workshop organized and the results documented for support further research activities; Systems methods/tools used by partner centres/NARS coherently catalogued and reviewed for methodological potentials, gaps across organizations and sites; List of individuals, groups in NARS identified for enhancing their systems research capacities; One CRP-level training of</p>	245.500

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
		<p>enhancing co-learning and delivering IPG in integrated systems analysis and modelling; To improve systemic understandings and identify systemic intervention strategies for improving ALS performances; To provide guidelines for regional development of impact pathways, SLM options-by-context and system tool option-by-context matrices; To build research and educational capacities on integrated system research in CRP-DS's partners;</p> <p>Methods: Complex adaptive human-environmental system approach; Tool box approach that identifies, verifies relevant methods of systems analysis/modelling (ranging from narrative-based systems analyses to quantitative integrated systems modelling) and provides guidance of context-relevant, complementary uses; Context- SLM option matrix approach as a system method; Context - modelling tool matrix as a system method; standard protocols for comprehensive describing used systems methods/tools; System-structured narrative synthesis framework for integrating</p>	<p>trainer (ToT) organized for relevant junior scientists (12-15) from partner centres and NARS;</p> <p>Outcomes: Adopted frameworks for guiding systems analyses and purpose-driven selection of system modelling methods/tools; Functioning iSAMG regarding effective co-learning and delivering IPG in integrated systems research; Systemic understandings and identify systemic intervention strategies obtained across CRP-DS's study regions towards achieving its IDOs; Accessible databases on SLM option-by-context and used systems methods/tools; Research and educational capacities of relevant, junior scientists in NARS, Centres and their connection to international peer community improved</p>	

Level	Level of organization within the CRP	Description of planned key activities at each level of internal organization	Expected results of planned key activities	Planned Budget (\$ 000s)
		impacts, lessons learned across CRP-DS Flagships.		


Table 3. Share of W1/W2 Funds in Management and Governance by Partner Center

Level	Flagship/Management/ Support	Cluster of Activities	Share of W1/W2 Budget Funds by CRP-DS and Partner Centres					Dryland Systems Total Budget (USD)	
MANAGEMENT & GOVERNANCE SUPPORT			ICARDA	ICRISAT	ICRAF	IWMI	CIAT	TOTAL	
0	Director's Office		974,336	-	-	-	-	974,336	
0.1	Coordination	<i>Personnel and Operations of Program Management Office</i>	564,336	-	-	-	-	564,336	
0.2	Research Support	<i>Meetings and Workshops</i>	335,000	-	-	-	-	335,000	
0.3	Research Support	<i>M&E and Risk Management</i>	75,000	-	-	-	-	75,000	
1	Evaluation and Task Force		920,000	-	20,000	20,000	20,000	1,000,000	
1.1	Research Support	<i>CRP Commissioned External Evaluation</i>	250,000	-	-	-	-	250,000	
1.2	Research Support	<i>CRP Commissioned Task Force</i>	670,000		20,000	20,000	20,000	750,000	
2	Centres' Coordination		-	40,500	40,500	40,500	8,100	194,400	
3	Contingency		282,450	-	-	-	-	282,450	
Total			2,176,786	40,500	60,500	60,500	28,100	8,100	2,451,186

Table 4. Share of W1/W2 Funds in Overarching Flagship Activities

Level	Flagship/Management/ Support	Cluster of Activities	Share of W1/W2 Budget Funds by CRP-DS and Partner Centres						Dryland Systems Total Budget (USD)	
			CRP-DS	ICARDA	ICRISAT	ICRAF	IWMI	CIAT	TOTAL	
0. OVERARCHING FLAGSHIP ACTIVITIES		LOCATION	753,430	277,561	161,750	123,747	74,840	25,000	1,416,328	
0.1	System Research	Gender and Youth	<i>W1&2: Kano-Katsina-Maradi Transect (Mali and Niger); Saiss (Morocco); Nile Delta (Egypt); Chinyanja Triangle (Changara-Ntcheu/Dedza); Fergana Valley (Kyrgyzstan, Tajikistan and Uzbekistan); Jodhpur, Barmer and Jaisalmer districts, Rajasthan (India); Bijapur district, Karnataka (India); Anantapur and Kurnool districts, Andhra Pradesh (India);</i>	205,660	55,000	35,000	50,000	74,840	25,000	445,500
0.2	Research Support	Geoinformatics, Data Management and Intellectual Property	Global	52,601	207,561	-	73,747	-	-	333,909
0.3	Research Support	Communication and Knowledge Sharing	Global	249,669						249,669
0.4	Research Support	Capacity Development	Global	-	15,000	126,750	-	-	-	141,750
0.5	System Research	Integrated System Analysis, Modelling and assessment	Global	245,500	-	-	-	-	-	245,500

Table 5. Gender (and Youth) Research Budget

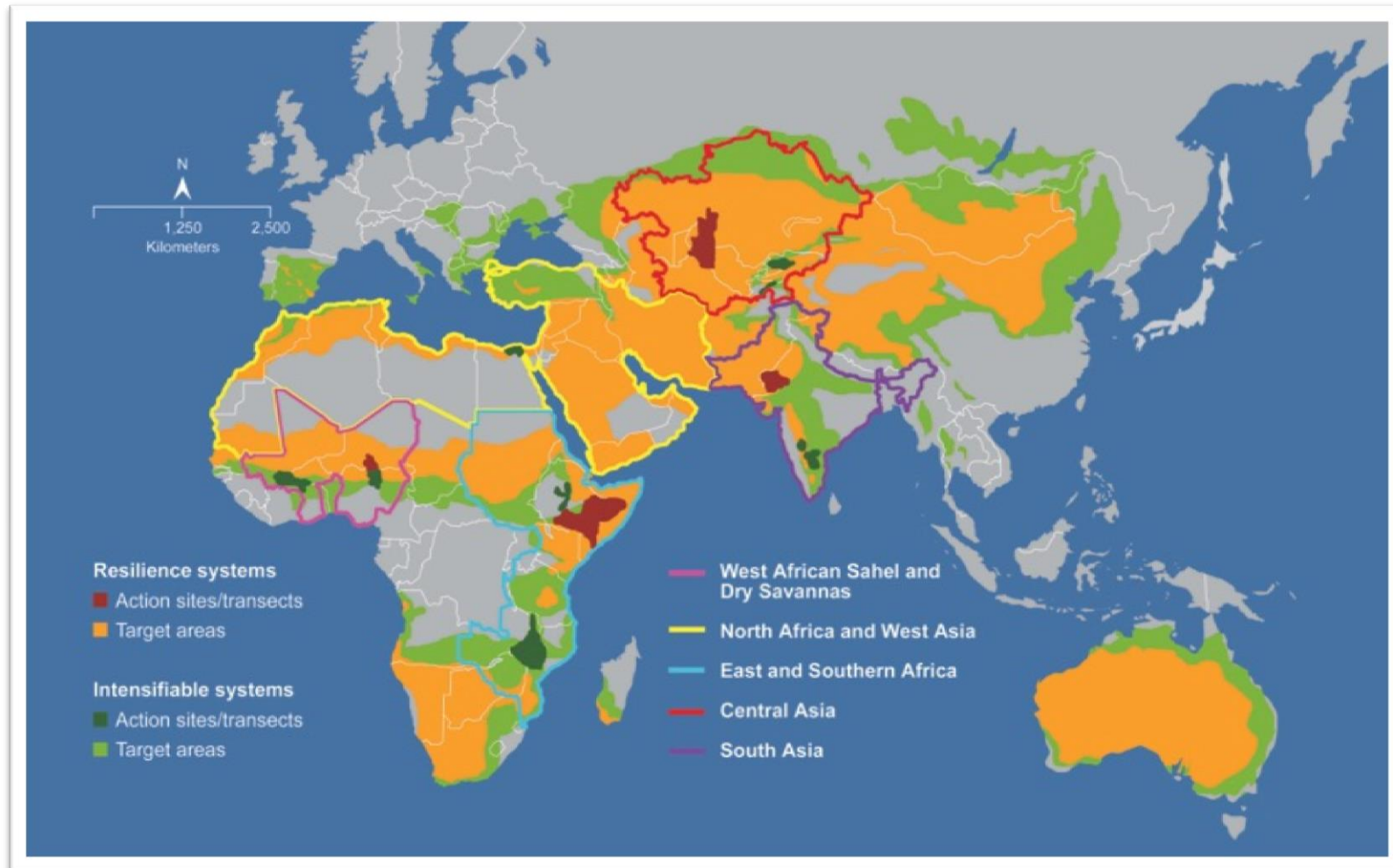
	2015 Gender Activities	Amount (US\$)
	Gender Mainstreaming Activities	2,365,869\$
	Gender Research Activities <ol style="list-style-type: none"> 1. Gender Strategic Research 2. Gender Tools Development (from systems perspective) 3. Gender Quality Assurance 4. Gender Knowledge Creation 	445,500\$
	Total 2015 Gender Budget	2,811,369\$

Gender concerns are mainstreamed into all aspects of 2015 research and work plans of Dryland Systems in order to ensure that all stakeholder and actor relevant activities are gender-responsive and gender-sensitive. This will enhance the quality and development impact of research activities as the perspectives of all stakeholders, including women and men, the young and the old, are taken into consideration and the participation of all, women, men, young and old youth in research, trials, innovation and policy planning is ensured. Ultimately, the aim is to ensure equitable access to the benefits generated through Dryland Systems research and interventions into value chains and agricultural livelihood systems to both women and men, in order to improve gender equality and contribution to overall development goals, such as poverty reduction. Where possible, the innovative capacity and livelihood aspirations of youth will be harnessed as part of the gender research, by including young women and men in relevant biophysical research projects, and by carrying out youth-specific research in agricultural livelihood systems.

Specific gender research activities have been designed in order to achieve gender-specific IDOs and related outcomes, as well as activities to define methods and approaches of gender analysis from a systems perspective including social, economic and cultural systems. Gender specialists at the five Drylands Systems flagships in collaboration with the Gender Expert Coordinator at Overarching program level coordinate activities amongst themselves to conduct research on a number of issues, such as gender-responsive agricultural extension services, gender norms affecting the gender wage gap and youth aspirations, decision making, etc.. In 2015, three (3) policy briefs, two (2) databases, three (3) papers, four (4) reports and one approach will be the international public goods output of this research.

Due to a budget cut in March 2015, the preparation and testing of approaches of gender-responsive systems research in pilot research studies will take place in 2015, with a view to full implementation of successful approaches in 2016. Activities for gender knowledge creation and sharing are also budgeted in order to ensure high quality of gender research work across Dryland Systems. Gender will be a key subject in work of all Interdisciplinary Research Team (IRT) and other relevant coordination bodies. It will also be a focus of five (5) gender-specific training events, and it will receive specific attention in all virtual and physical meetings of the Dryland Systems Gender Working Group.

Map 1. Dryland Systems Flagships





RESEARCH
PROGRAM ON
Dryland Systems

The CGIAR Research Program on Dryland Systems aims to improve the lives of 1.6 billion people and mitigate land and resource degradation in 3 billion hectares covering the world's dry areas.

Dryland Systems engages in integrated agricultural systems research to address key socioeconomic and biophysical constraints that affect food security, equitable and sustainable land and natural resource management, and the livelihoods of poor and marginalized dryland communities. The program unifies eight CGIAR Centers and uses unique partnership platforms to bind together scientific research results with the skills and capacities of national agricultural research systems (NARS), advanced research institutes (ARIs), non-governmental and civil society organizations, the private sector, and other actors to test and develop practical innovative solutions for rural dryland communities.

The program is led by the International Center for Agricultural Research in the Dry Areas (ICARDA), a member of the CGIAR Consortium. CGIAR is a global agriculture research partnership for a food secure future.

For more information, please visit
drylandsystems.cgiar.org

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In partnership with:

