

Wheat Initiative



An International Research Initiative for Wheat Improvement

Groupe céréales-INRA, 4 avril 2013

Hélène Lucas

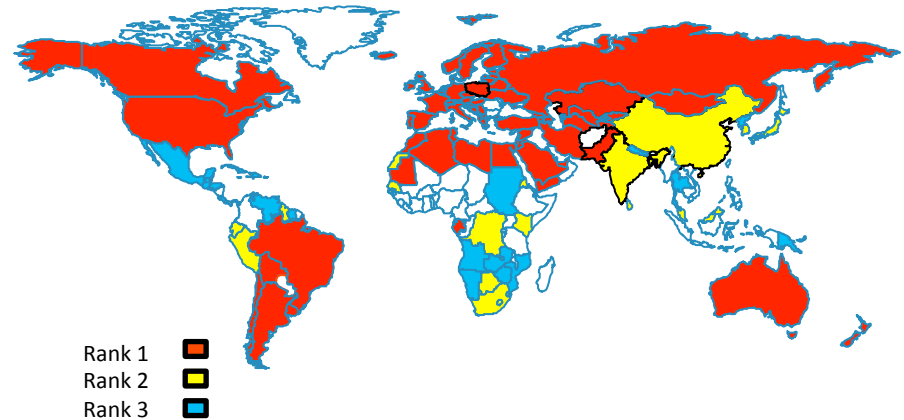
Why Wheat?

- The world's most important food crop
- Provides 20% of all calories and 20% of all protein in developing and developed countries

but

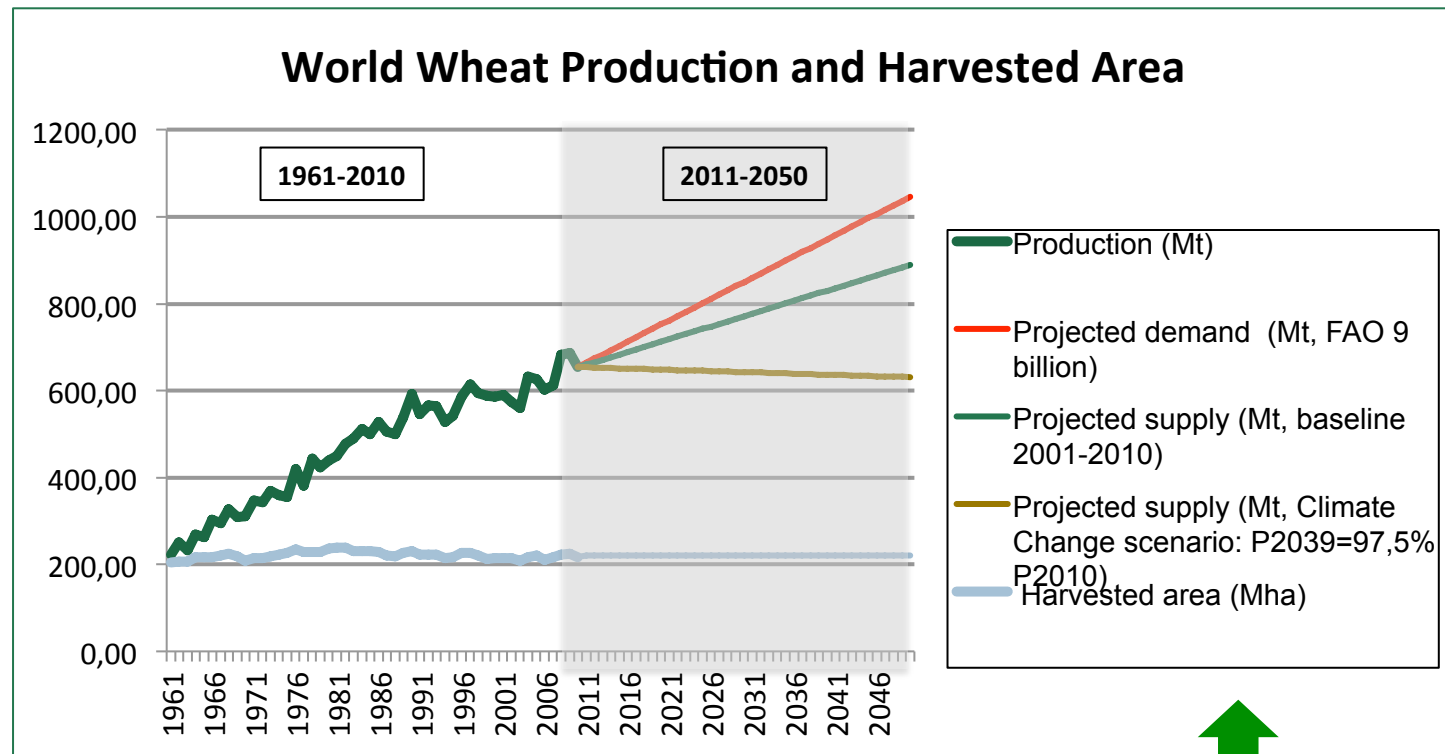
- Wheat production has not met demand in 10 of the last 15 yrs
- Demand will increase by 60% by 2050, while yields are stagnating
- Investment in wheat R&D is disproportionately low given the importance of the crop

Importance of Wheat as calorie source (2006-2008)



How to achieve the needed production increase for wheat ?

Mean annual wheat yield increases must change from currently 1.1% (2001-2010) to 1.6% (2011-2050) to meet demand trends



Need for increased coordination

Policy **Agromony** **Breeding**

The Wheat Initiative

- A mechanism to **identify synergies and nurture collaborations** for **wheat improvement**
- **Endorsed by the Agricultural Ministries from the G20** member states to improve food security in 2011



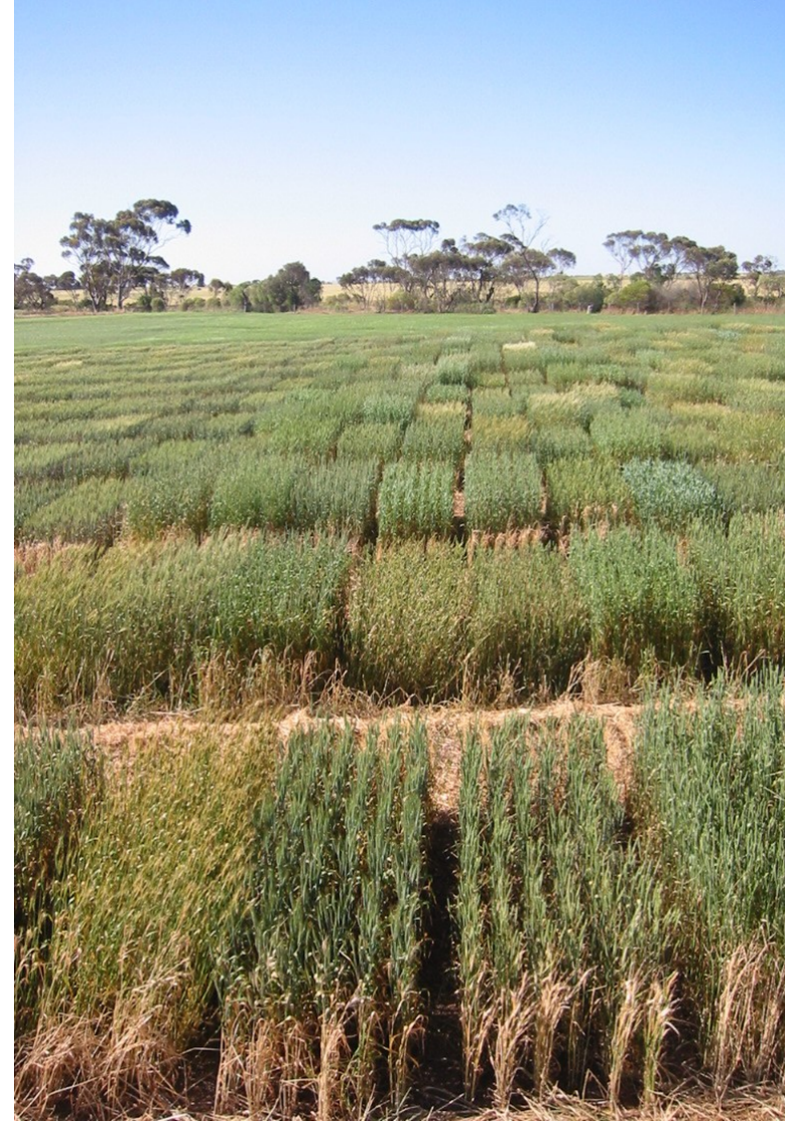
Wheat Initiative: the Vision

Encourage and support the development of a vibrant global wheat research community sharing resources, capabilities, data and ideas to improve wheat

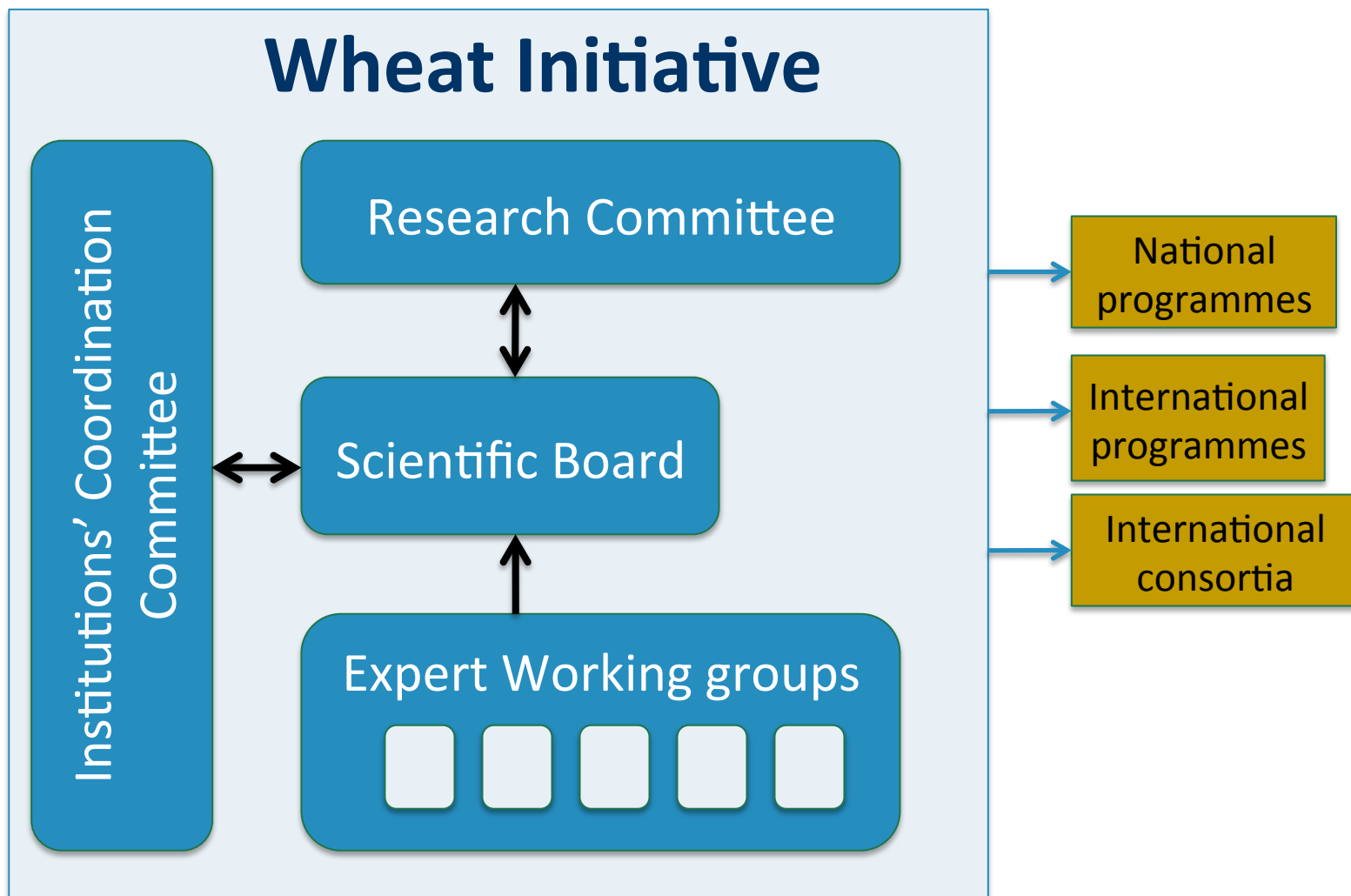


Wheat Initiative: Mission

- A global strategic agenda for wheat research
- Efficient investment in wheat research
- Collaborative programmes and coordinated actions
- Shared knowledge
- Access to resources, services and facilities
- Training and education of students, researchers and farmers



Governance framework



- **Wheat Information System**
- **IWGSC**
- **Breeding methods**
- **Durum Wheat**
- **Wheat crop model**
- **Phenotyping Platforms – standardization**
- **Raising Wheat Yield Potential ...**

What is the Wheat Initiative?

The Wheat Initiative is:

- A science-led initiative
- A way to bridge national and international programmes
- A mechanism for the wheat community to define and update research priorities
- A information platform for institutions to establish investment priorities
- Self-funded through members

The Wheat Initiative is not:

- A competing program with national or international existing initiatives
- A funding entity



Wheat Initiative activities 2011-2012

- Launch of the Wheat Initiative, Paris, 15 Septembre 2011
 - 125 participants, 24 countries (57 scientists, 46 country/institutions representatives, 22 private companies/stakeholders)
- Draft Consortium Agreement
- Governance establishment (Charter)
- Memberships
- Vision Document
- Website (www.wheatinitiative.org)
- Survey & Concept note on Wheat Information System
- Setting up Expert Working Groups
- 1st ICC meeting : November 14, 2012, Mexico
- 1st RC meeting: January 14, 2013, San Diego

Wheat Initiative Members 02-2013

Public Sector

Country	Organization
Argentina	CONICET
Australia	GR&DC
Brasil	EMBRAPA
Canada	AAFC
China	CAAS
Czech Republic	
France	INRA
Germany	BMELV
India	ICAR
Ireland	Teagasc
Italy	MiPAAF
Japan	JIRCAS
Mexico	SAGARPA
Spain	INIA
Turkey	GDAR
UK	BBSRC
Uruguay	INIA
USA	USDA
International	CIMMYT
International	ICARDA

Private Sector

Name
Florimond Desprez Veuve & Fils
Syngenta
KWS UK LTD
Monsanto Company
DOW
Limagrain
RAGT

Signed agreement

Expressed interest / in process

Le groupe Céréales

- **Un groupe « miroir » national pour la Wheat Initiative**
 - Participation à la réflexion sur les priorités de recherche
 - Participation aux EWG...
- **Les « national representatives » porte-parole du groupe céréales**
 - S'appuyant sur les animateurs de thématiques

Animateurs thématiques

- **Evolution, gestion de la diversité : F Balfourier et J David**
- **Génomique : E Paux et H Berges**
- **Développement, reproduction (modélisation) : V Allard et J Enjalbert**
- **Réduction des intrants et stress abiotiques : J Le Gouis et P Roumet**
- **Stress biotiques : MH Lebrun et T Langin**
- **Bioinformatique : M Alaux et F Choulet**
- **Qualité des produits : F Guillon et V Lullien-Pellerin**
- **Systèmes de culture et sélection : MH Jeuffroy et G Charmet**
- **Partenariat (y compris ASP): L. Garmendia et P. Le Crenn-Brulon**



ENREGISTREZ-VOUS SUR LE SITE!

www.wheatinitiative.org