New crops in harsh environments?

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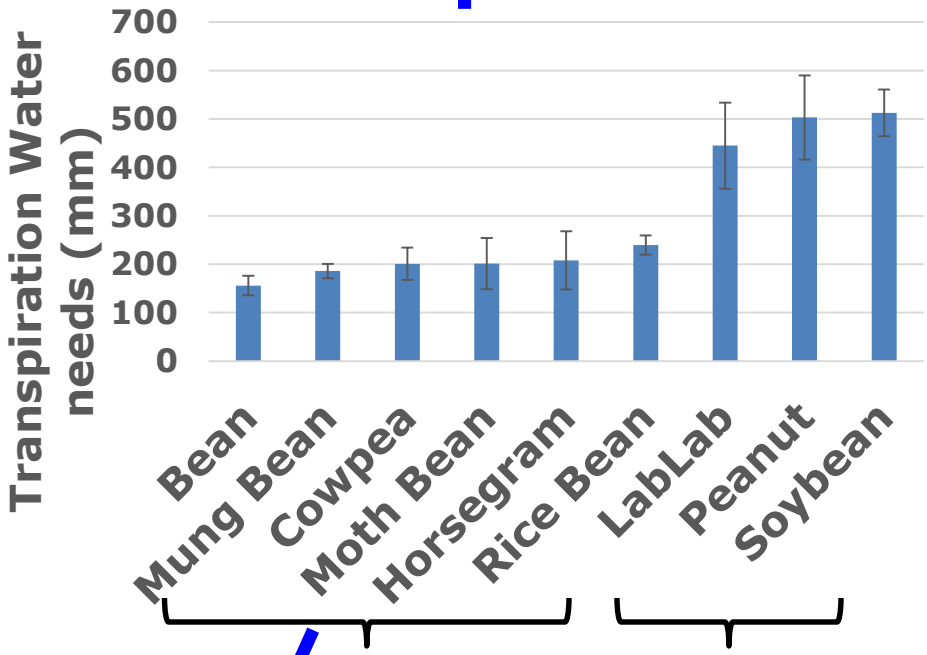
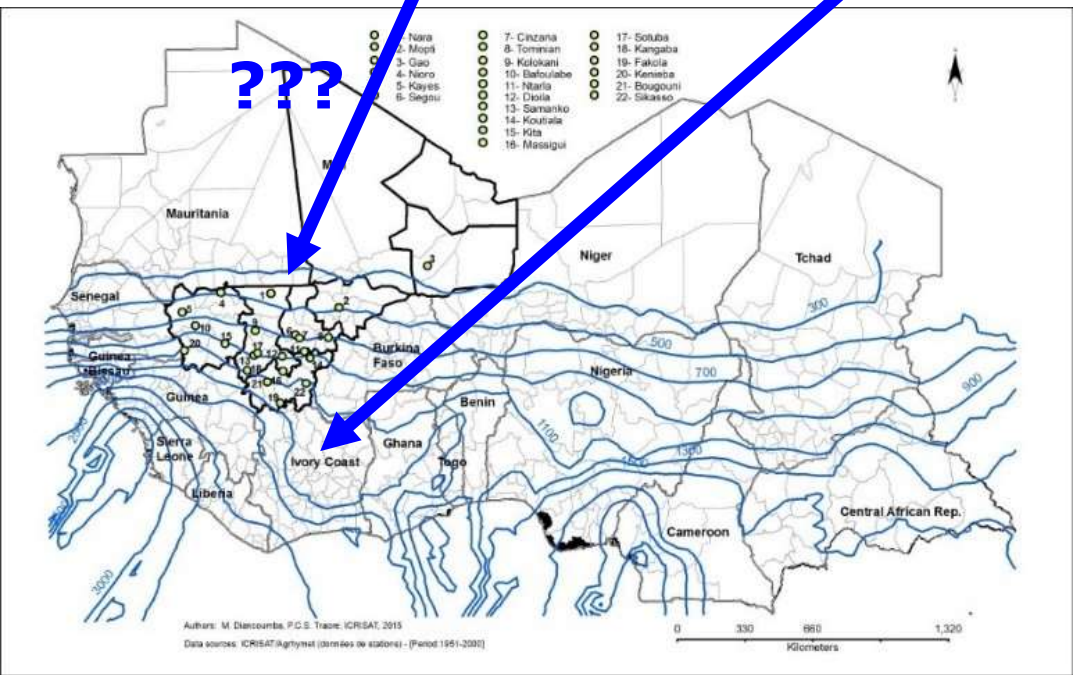
New crops in harsh environments??

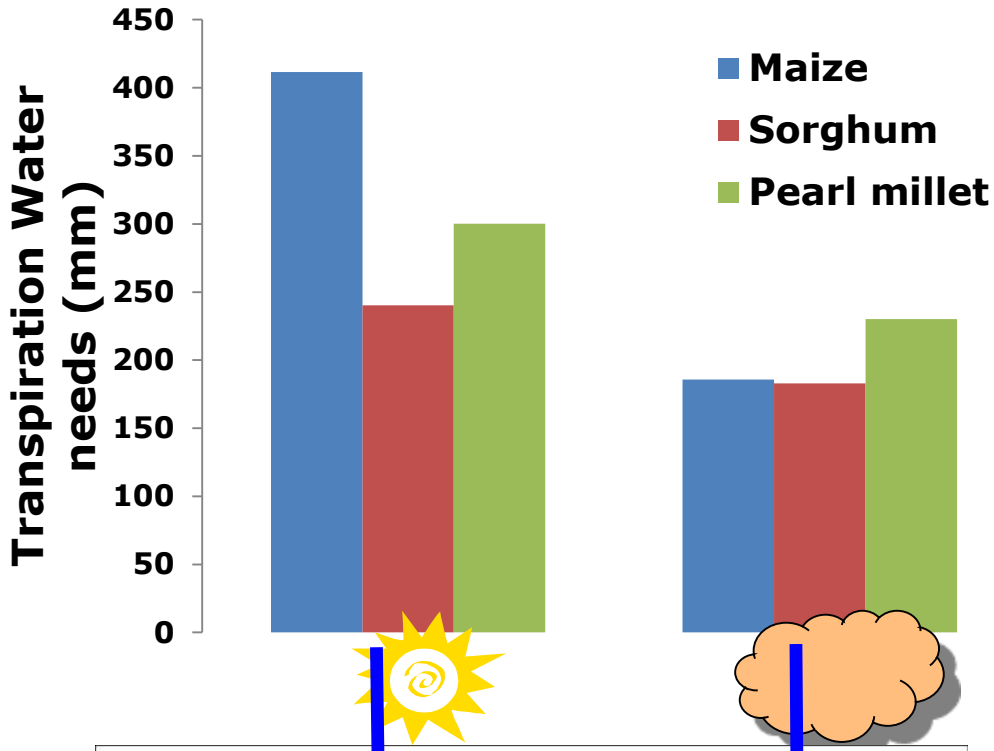


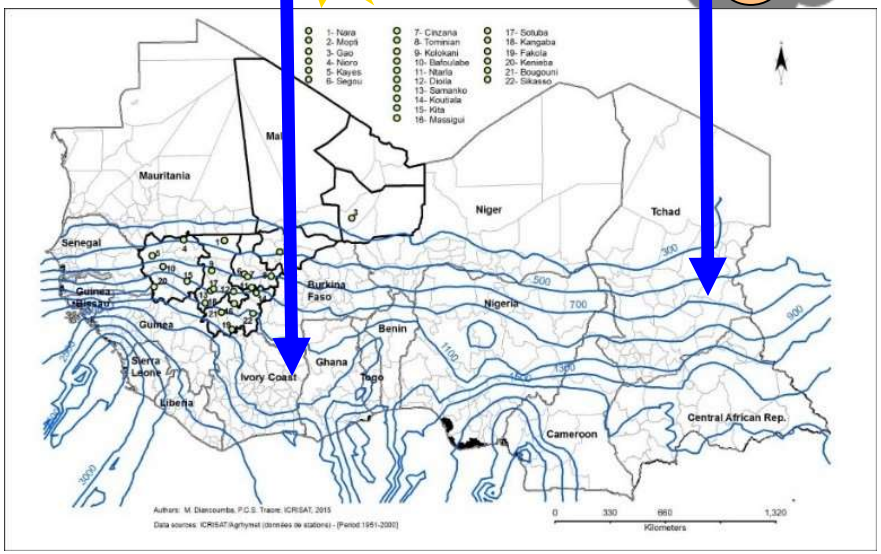


Challenges/Opportunities:

- Soil fertility
- "Atmospheric drought"
- Seeds
- T°C speeding crop cycle

Crops moving up/down isohyets?





- What crop where?
- Risk vs opportunity
- New millet/sorghum crop type?

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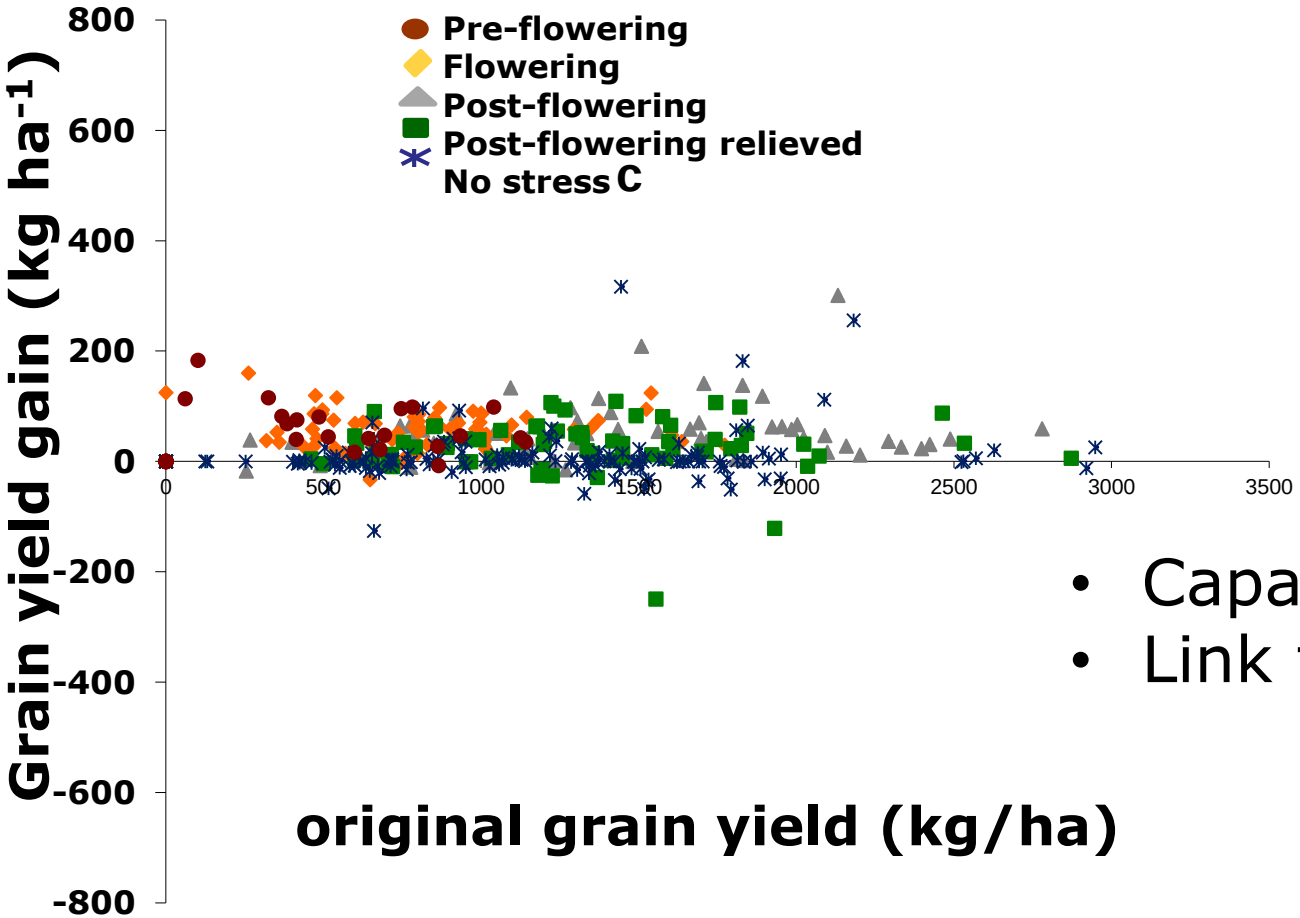
Crops with new traits?

Simulation of yield changes across stress scenarios of a water-saving trait



- Capacity to simulate
- Link to breeding

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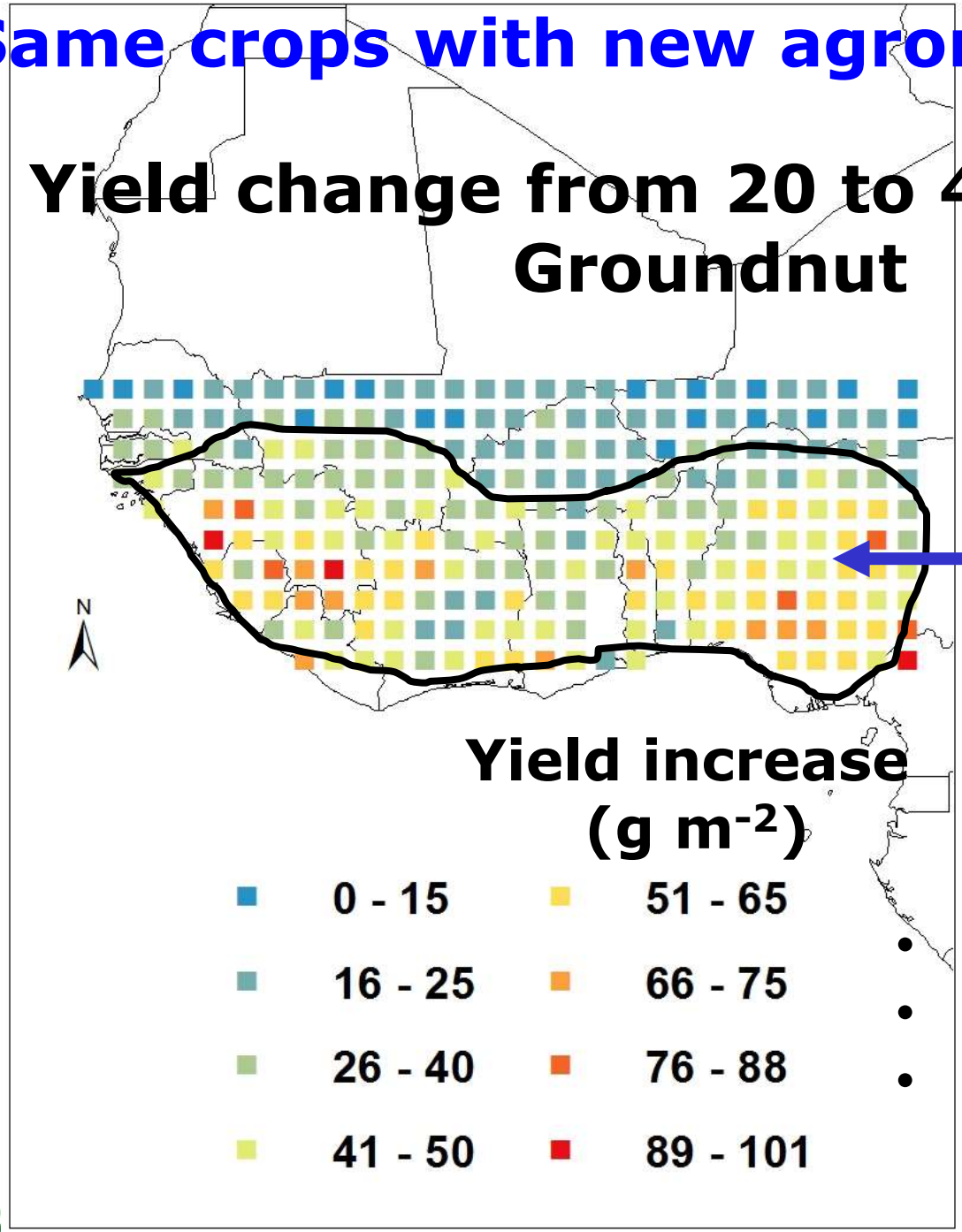
Same crops with new agronomic manag^{t}?



Major yield benefits

- Extension
- Seeds
- Investment vs return

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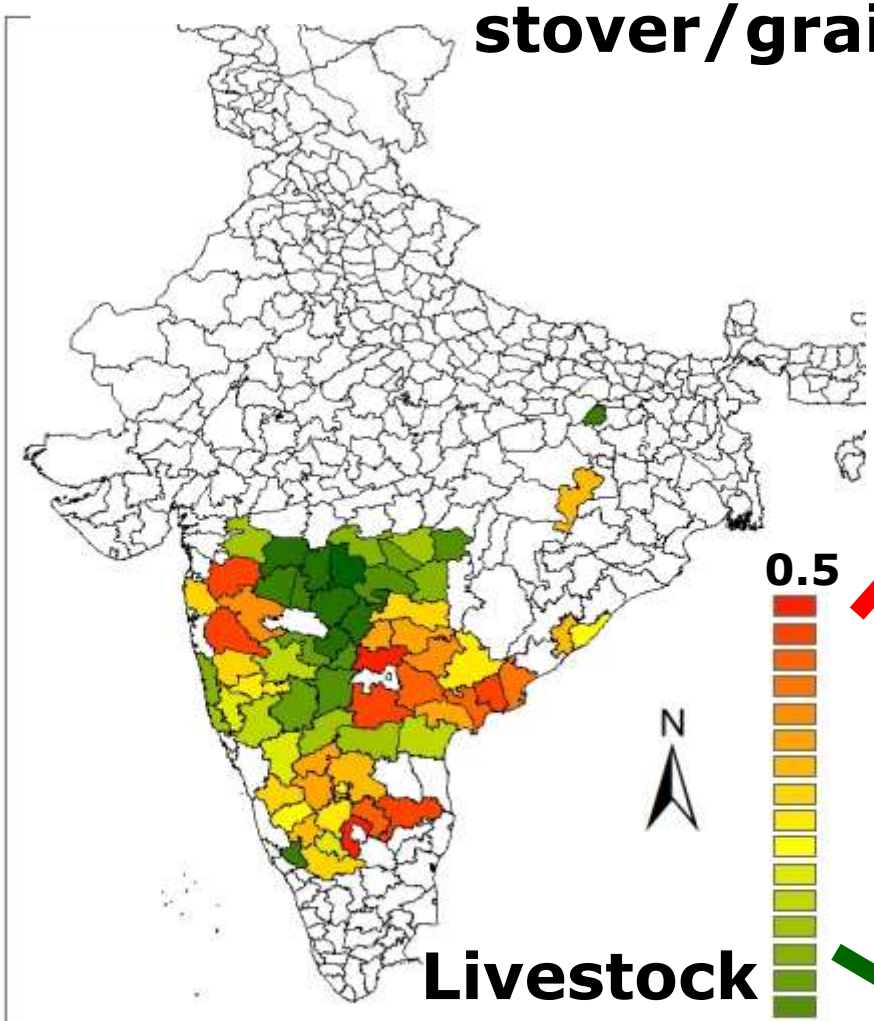
Dual purpose crops?

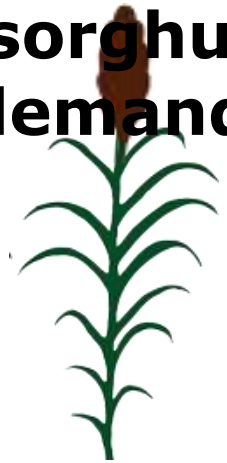
Dual purpose sorghum; stover/grain demand



Livestock per capita

0.5

12.3



"GRAIN type"

Sorghum bread

"STOVER type"

Livestock feed

Vikraman et al., in prep