



EMBL-EBI Industry Programme workshop

Initiating Linked Public Data Sets for Agriculture and Food Hackathon

// Challenge:

- // Connect **traits**, **genes**, and **GM events** (if possible)
- // See relation to yield and quality
- // Identify which genes have a role, cross trait data and genes:
 - // How are wheat yield traits connected to genes?
 - // In which GM events are these traits and genes present? Databases?

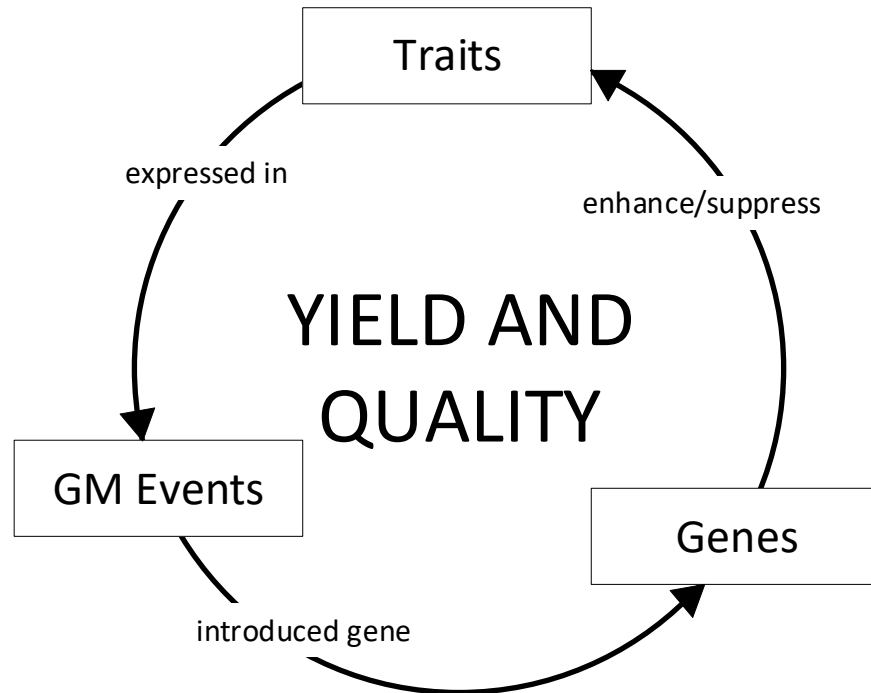
// Focus on different grain yield traits:

- // **Grain number** (e.g. # spikes per plant, # grains per spike, # tillers bearing fertile spikes, # spikelets per spike)
- // **Grain weight** (e.g. 1000-grain weight)
- // Expected result
 - // **Data model** intercrossing domains
 - // **RDF** → input question, given a trait which genes are implicated
 - // Some **queries** demonstrating the utility of result RDF



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// Different data bases

// Several ways to model

// Same traits, related crops (e.g. wheat, barley)

// Identify gaps, missing information (e.g. implementing constraints or rules in the data model)