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5th Agbiz Grain Symposium

"Farmer information system to identify growth opportunities for storage"

Pretoria

20 August 2018

Some of the IVIS Offerings:



- The Integrated Value Information System provides a <u>single solution</u> to <u>systemise data</u>
 <u>management</u>, <u>analyse</u> available <u>data</u> to <u>derive strategically relevant insights</u> and provide spatial visualisation of information and insights.
- A <u>real-time</u>, <u>web-based spatial information system</u>. The spatial viewer enable's effective spatial planning, monitoring and reporting of business activities.
- a Proprietary <u>software solution</u> which uses the latest internet technologies (PHP, Java, MySQL) and security protocols to offer a <u>fully customizable platform</u> and business integration to our clients

Clients / companies / organisations benefitting from IVIS products or applications:









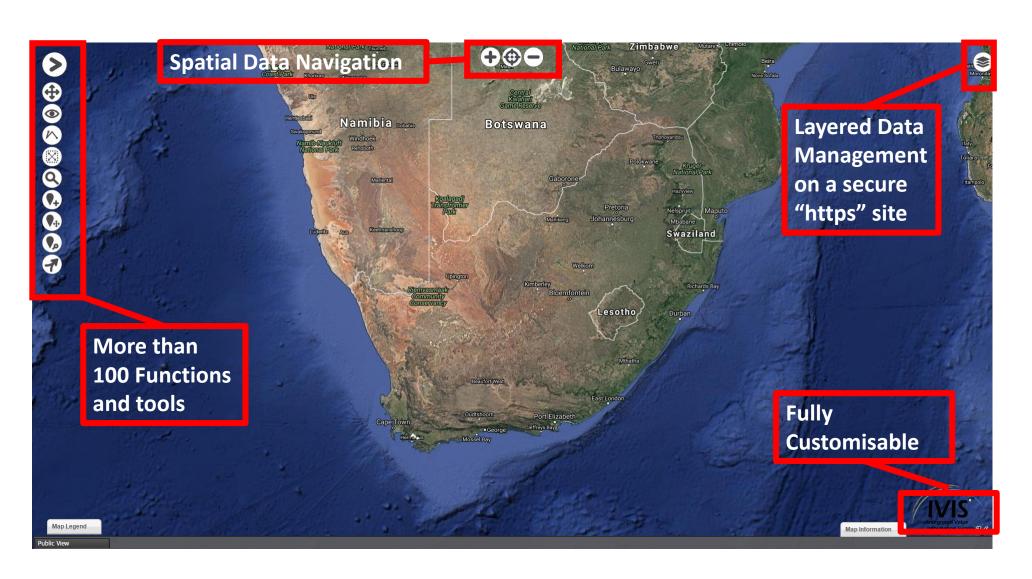






IVIS as a spatial decision support system

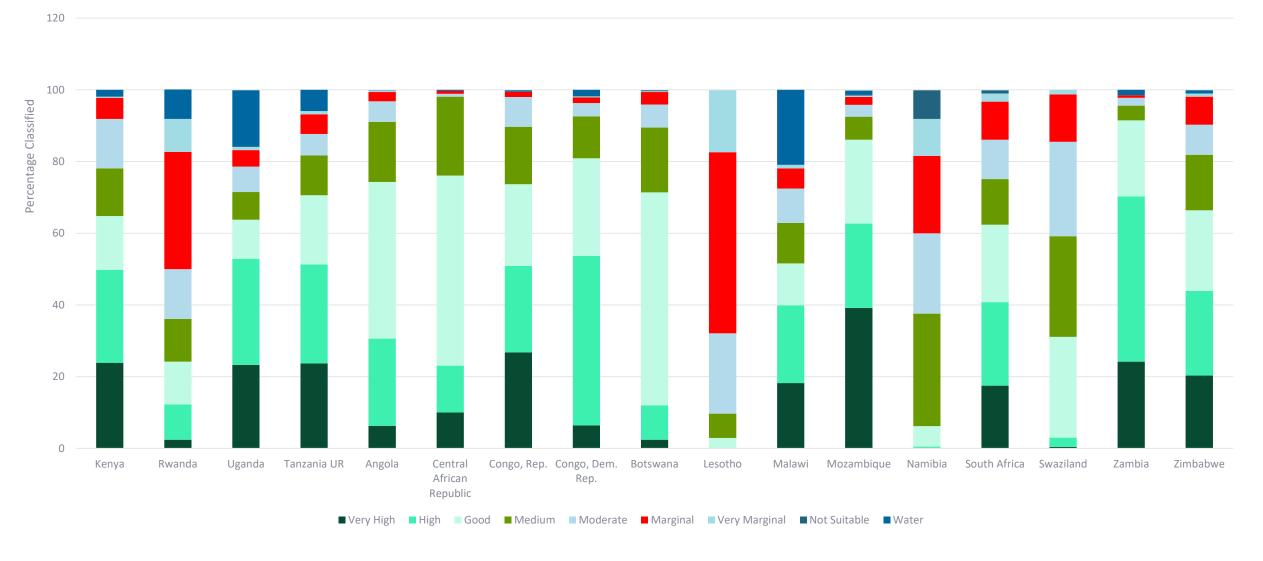




Where can we grow what?



Rain fed Soil Suitability - High-input Farming



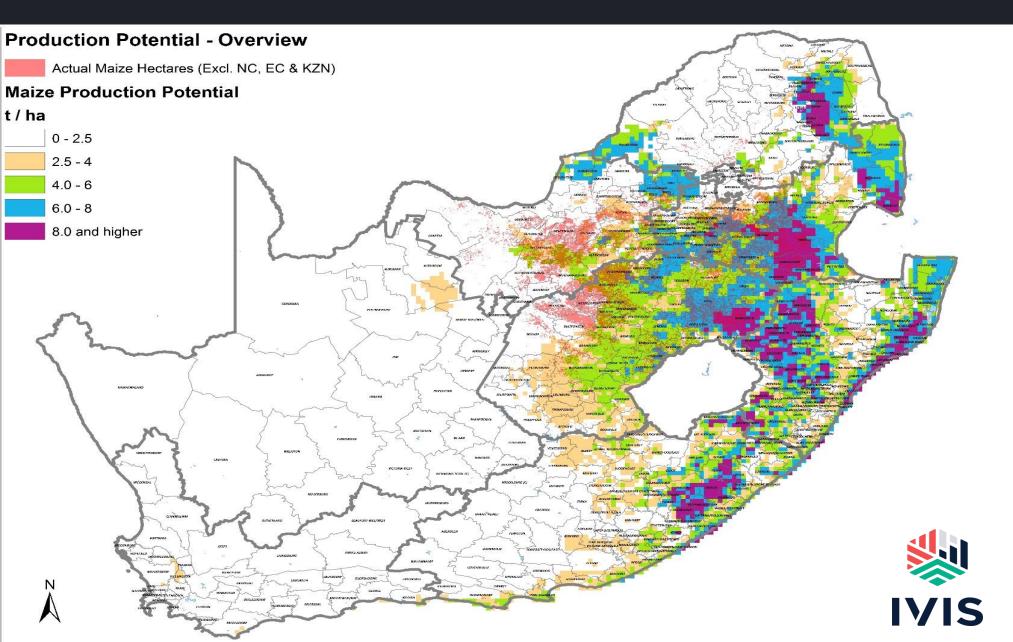
Full Value Chain Integration — E.g. Maize





Where can we grow what?



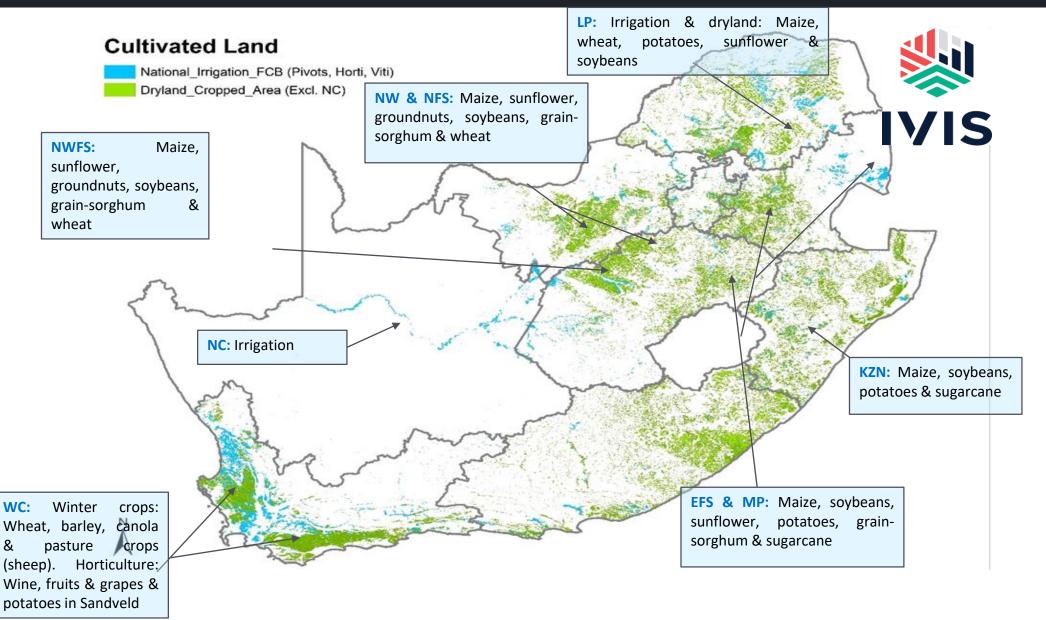


rom the 15.8 million hectares of capable arable land in South Africa, only 1.8 million is considered high potential (11.8%)



Where do we cultivate?

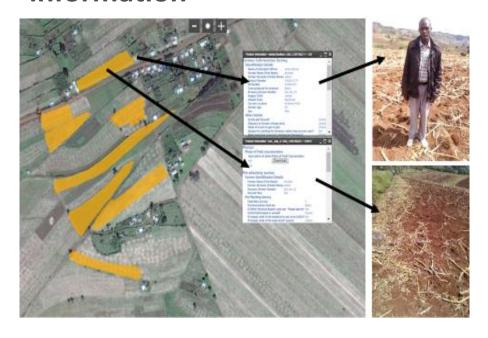




Gathering and Distributing Information using an the IVIS Off-line APP



Summary of field and farmer information



Detailed questionnaire designed to address client needs



The app is designed to work in remote locations (without reception).

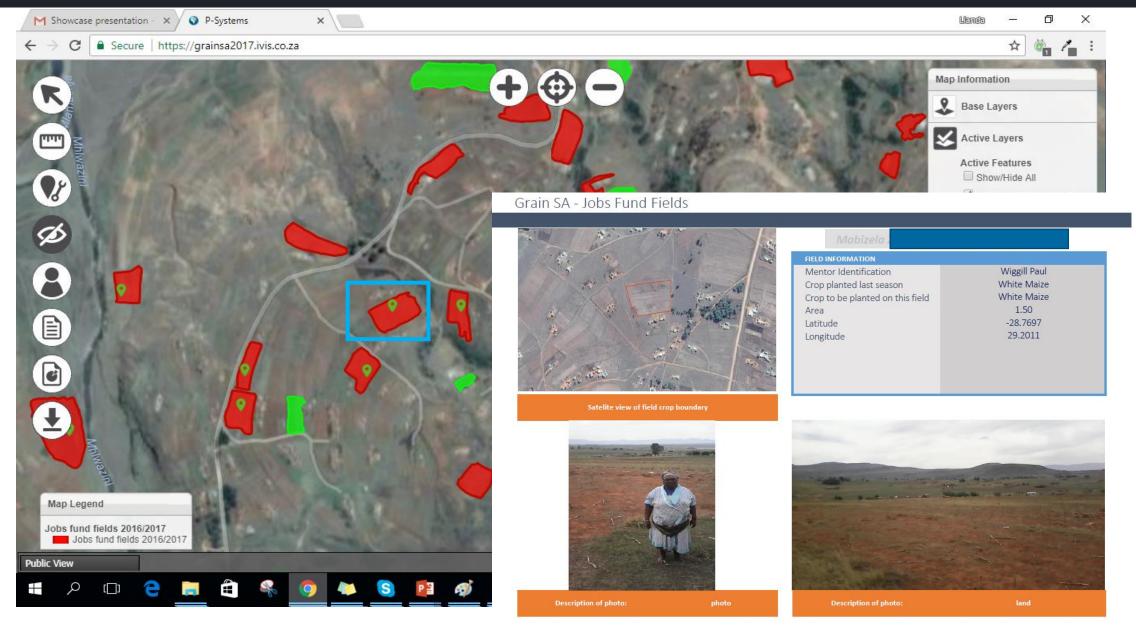
Each offline-app project can be monitored "hands-on" by the client and data can be verified as it is uploaded.





Grain SA Jobs fund Project

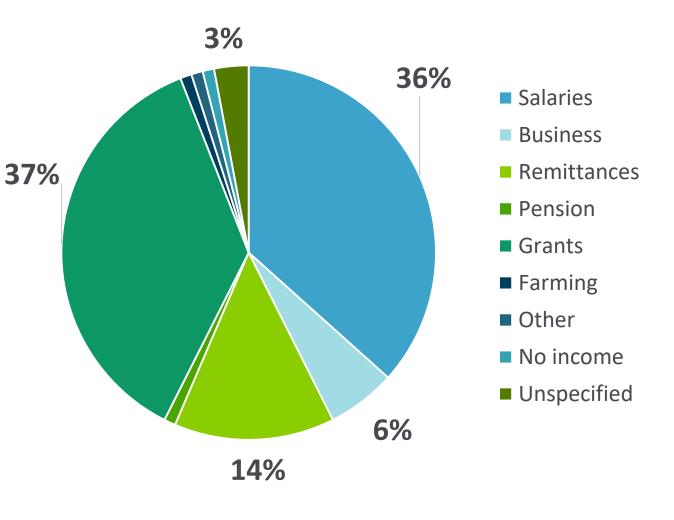




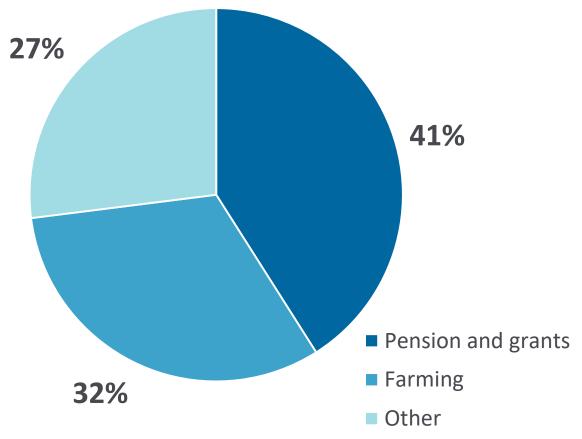
Farming as a source of income



StatsSA 2015 Household survey

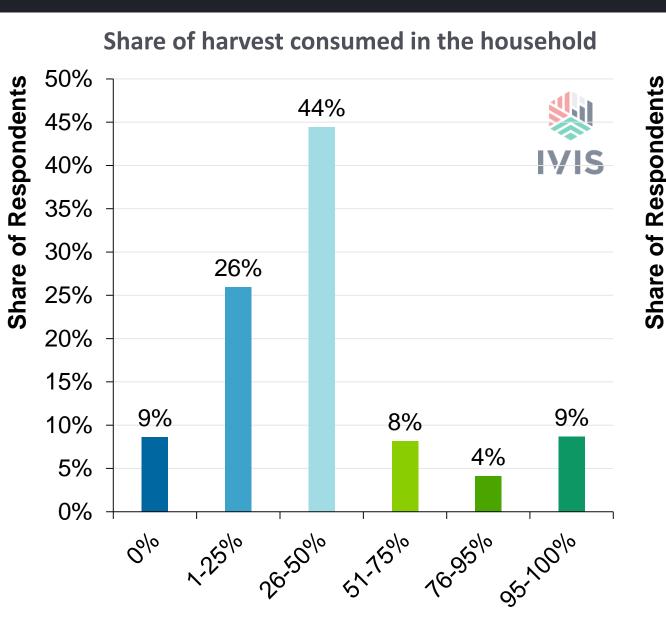


2016/17 Jobs Fund - GrainSA supported developing farmers

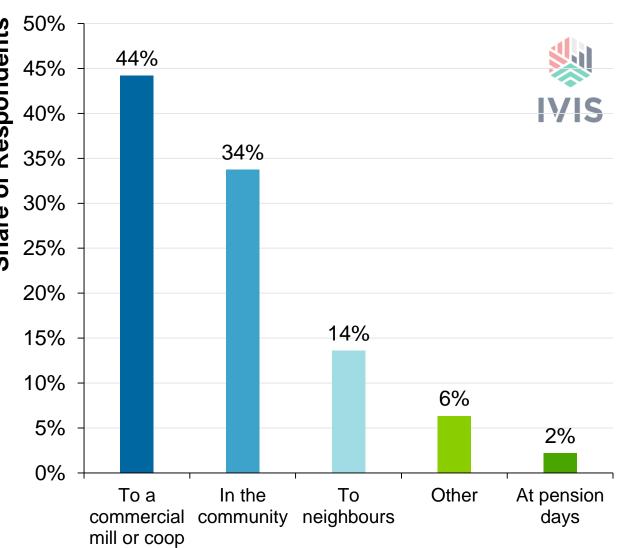


Maize consumption & marketing





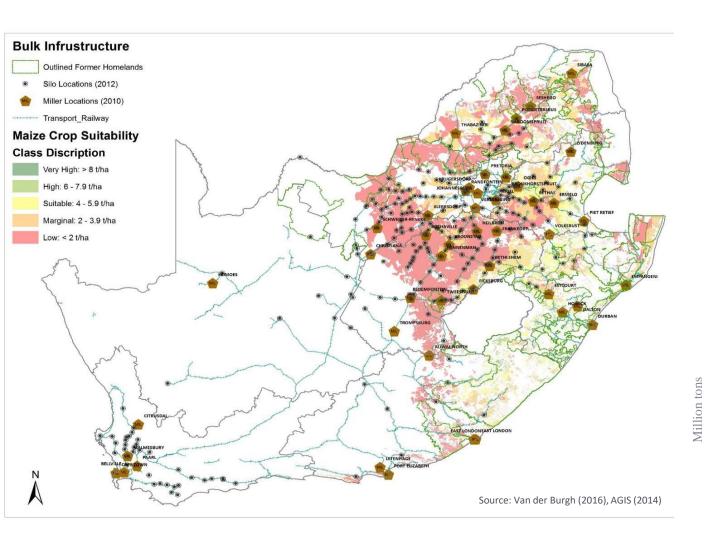
Where farmers sold their 2016/17 grain





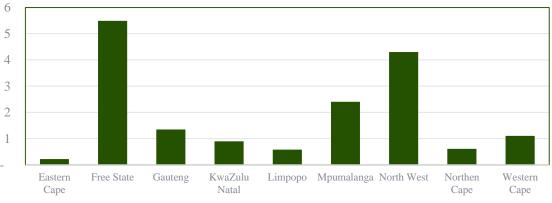
Bulk Infrastructure – Location of silos, rail & millers





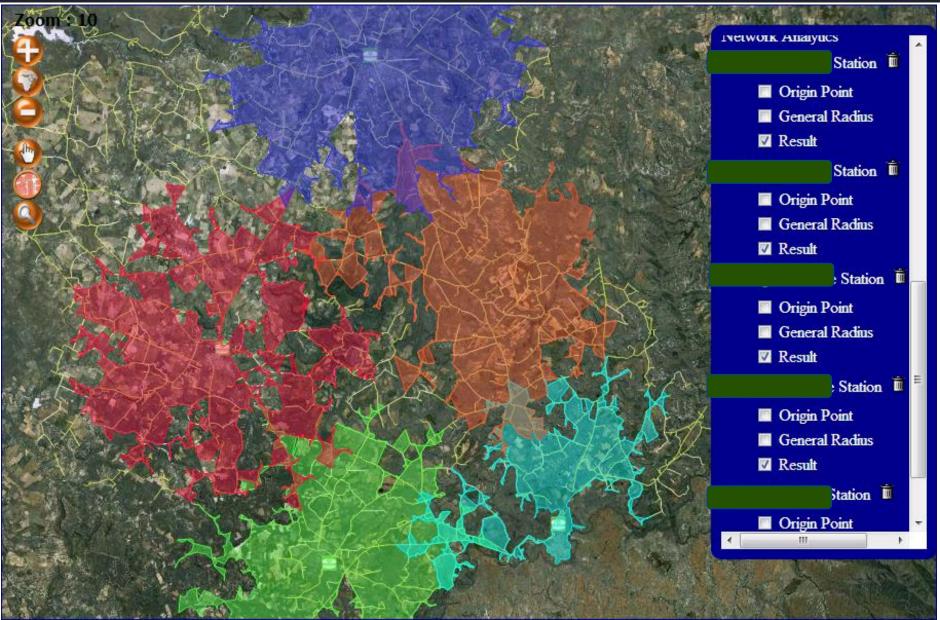
- In 2010, there were 684 commercial storage sites and 146 non-commercial storage sites (Agbiz, 2016). Numerous consignments are also loaded directly from the land to the processor during the harvesting season.
- Millers are concentrated in the areas surrounding Gauteng where the largest consumer base is located.
- There exist potential for infrastructure development such as storage facilities and millers in the Eastern Cape and Kwa-Zulu Natal informal regions which are suitable for maize production. This however is largely dependent on the supply of critical mass production in the regions.
- The problem of post-harvest losses as a result of proper storage techniques remains a key issue in the informal grain producing sector.
- The use of rail in the transportable economy over the past 70 years has decreased signficantly in mining, agriculture and manufacturing sectors (Transnet, 2014). In 2014, approximately 10.8 million tonnes of grain were transported by road oppose to 2.5 million tons by rail.

Storage capacity per province



Where is the optimal / most economic route?

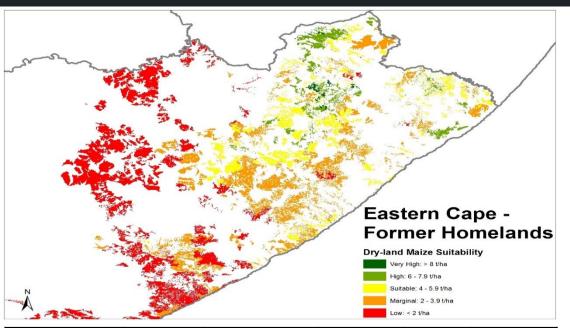




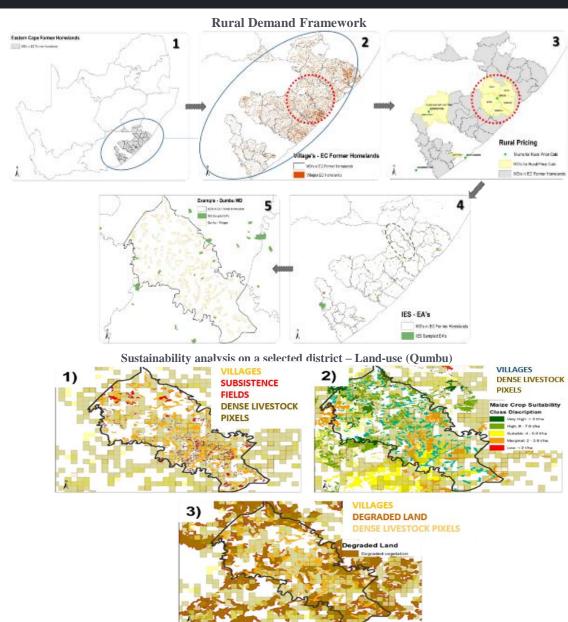


E.g. Opportunities in the Eastern Cape





		(1)	(2)	(3)	(4)	(5) = (4)*(3)
Maize Suitability Class		Maize Suitable Land within (FCB)	Potential/ Allocated Dryland Grain & Oilseed from Maize Suitable Land	Potential Dryland Maize Hectares	Potential (t/ha) – Lower yield	Average Production Potential (tons)
н	High	91 642	31 015	16 533	5.9	97 548
s	Suitable	169 404	124 892	93 813	3.9	365 871
М	Marginal	319 612	201 490	146 988	2.9	426 264
L	Low	114 282	64 144	41 033	2	82 066
Total		694 940	421 540	298 367	3.7	971 750







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Thank You





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