

HOW DO WE INCREASE AG PRODUCTION?

IN THE NWMP TO CREATE
SIGNIFICANT NEW EMPLOYMENT

Presentation to the NWMP Stakeholder Advisory
Committee; Mt. Isa, Queensland; *Monday, 17 June 2019*

AGENDA

WHY ARE WE HERE?

WHAT PROBLEM ARE WE TRYING TO SOLVE? WHY AGRICULTURE?

WHAT DO WE HAVE TO WORK WITH?

HOW DO WE FIND NEW IDEAS BEYOND CATTLE?

WHAT IS THE SOLUTION?

HOW DO WE IMPLEMENT?

This research emerged from the North West Minerals Province Taskforce and the Strategic Blueprint for North West Queensland

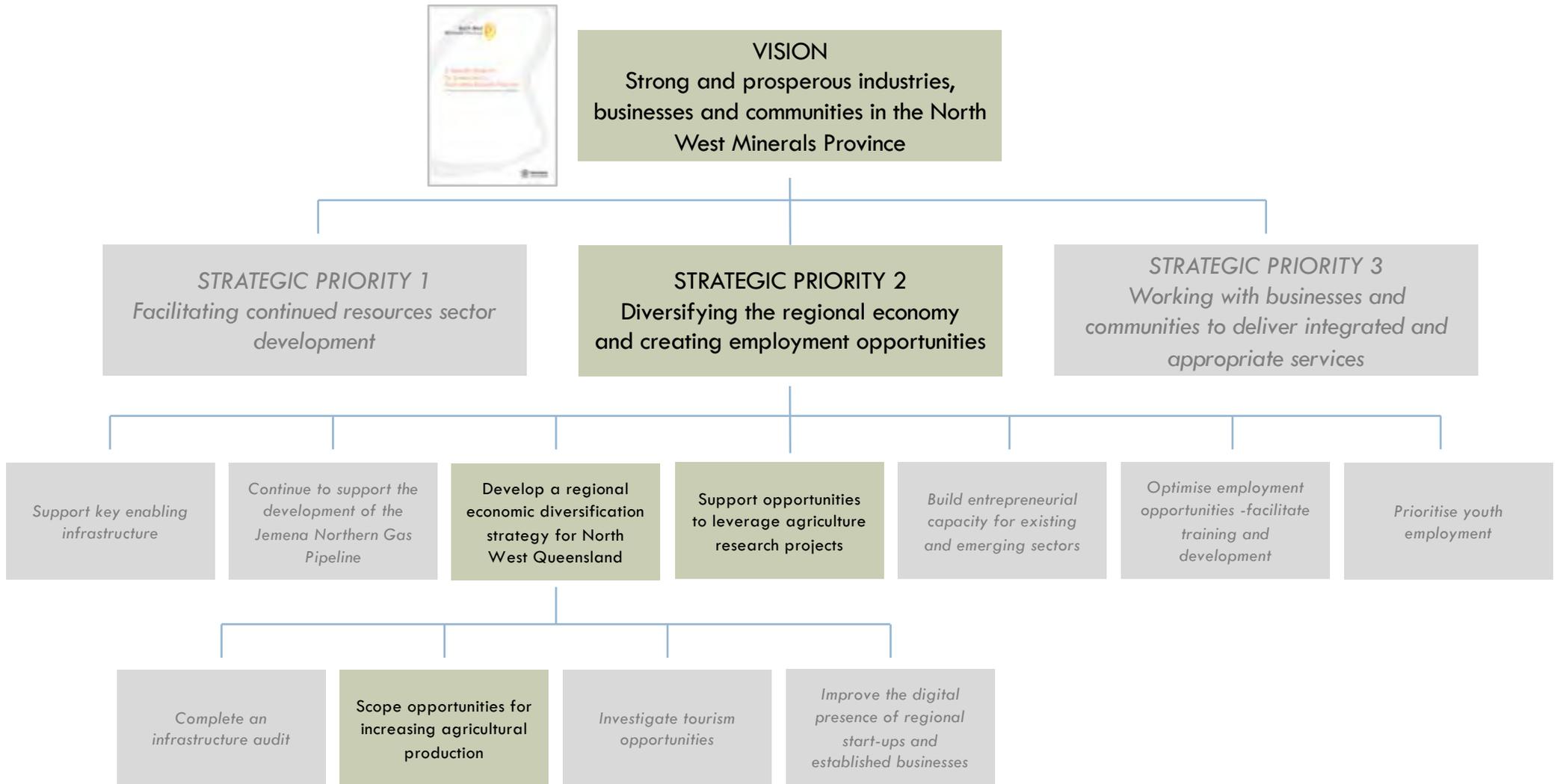


NOV 2015



JUL 2017

The Strategic Blueprint for North West Queensland identifies agriculture as having potential to grow and diversify the economy



This research seeks opportunities for increasing agricultural production in the region to create significant new employment



Key actions to be delivered in developing the strategy include:

DEVELOP A REGIONAL ECONOMIC DIVERSIFICATION STRATEGY FOR NORTH WEST QUEENSLAND

The Queensland Government will develop a long-term regional economic diversification strategy to leverage and identify development opportunities in key sectors including resources, agriculture, enabling infrastructure, tourism, and business and industry...

SCOPE OPPORTUNITIES FOR INCREASING AGRICULTURAL PRODUCTION

The state's North West presents unique prospects for further agricultural development. In recognising these opportunities across the Province, the Queensland Government will be developing an integrated North West Queensland agriculture plan. The plan will focus on continuing to grow a sustainable and diversified agricultural sector, and will be developed in collaboration with key stakeholders across the supply chain and linked with the broader regional economic

diversification strategy.

...

SUPPORT OPPORTUNITIES TO LEVERAGE AGRICULTURE RESEARCH PROJECTS

The Queensland Government has already committed \$1.5 million over three years to stimulate research activity to progress the development of new agriculture opportunities across North Queensland.

This funding will support opportunities to leverage industry-led research and development being undertaken through the Cooperative Research Centre for Developing Northern Australia for increased agriculture production across the Province and other parts of North Queensland.

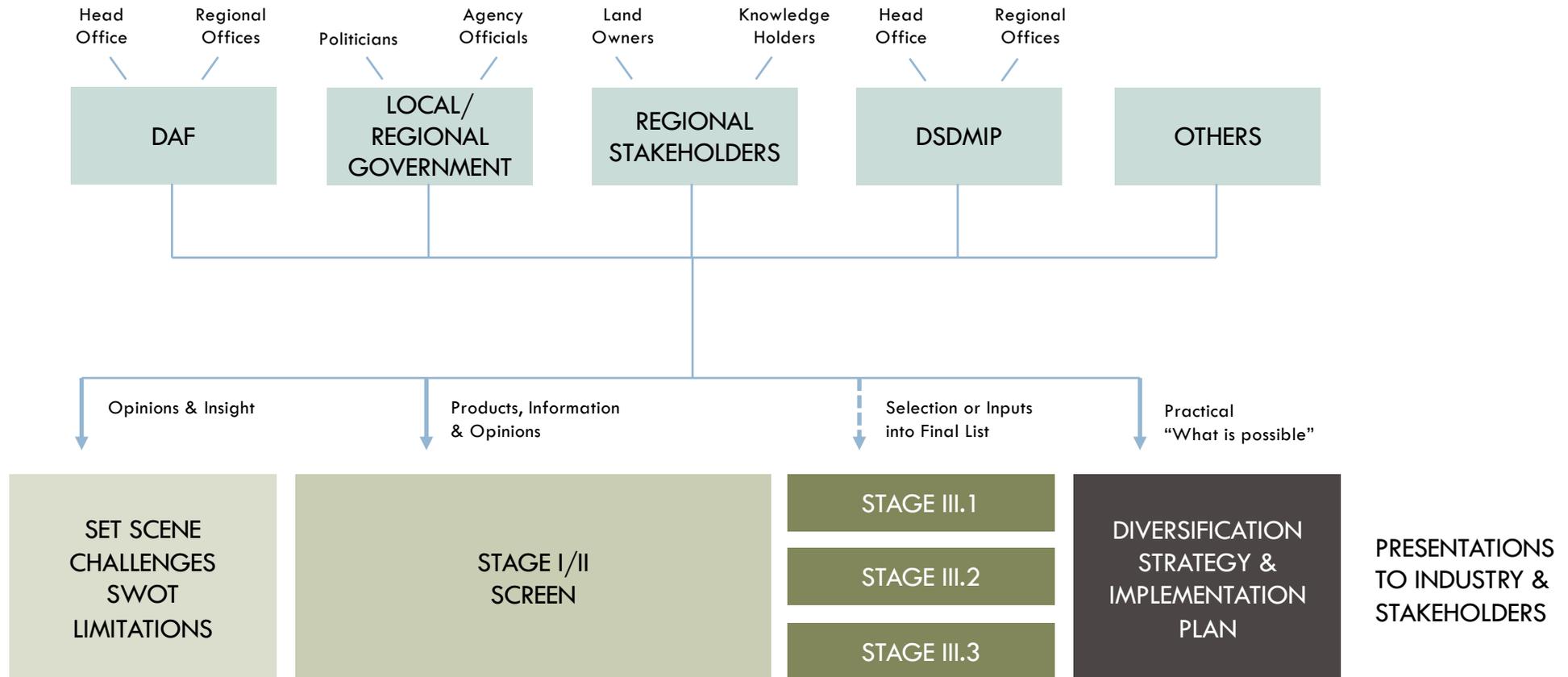
The Cooperative Research Centre for Developing Northern Australia, currently being established in Townsville, is intended to provide a collaborative research platform to address challenges that have constrained agricultural and broader development in the north and includes a \$75 million commitment over 10 years from the federal government.

p17-19

The province covers ten local government authorities in North West Queensland and associated linkages and supply chains



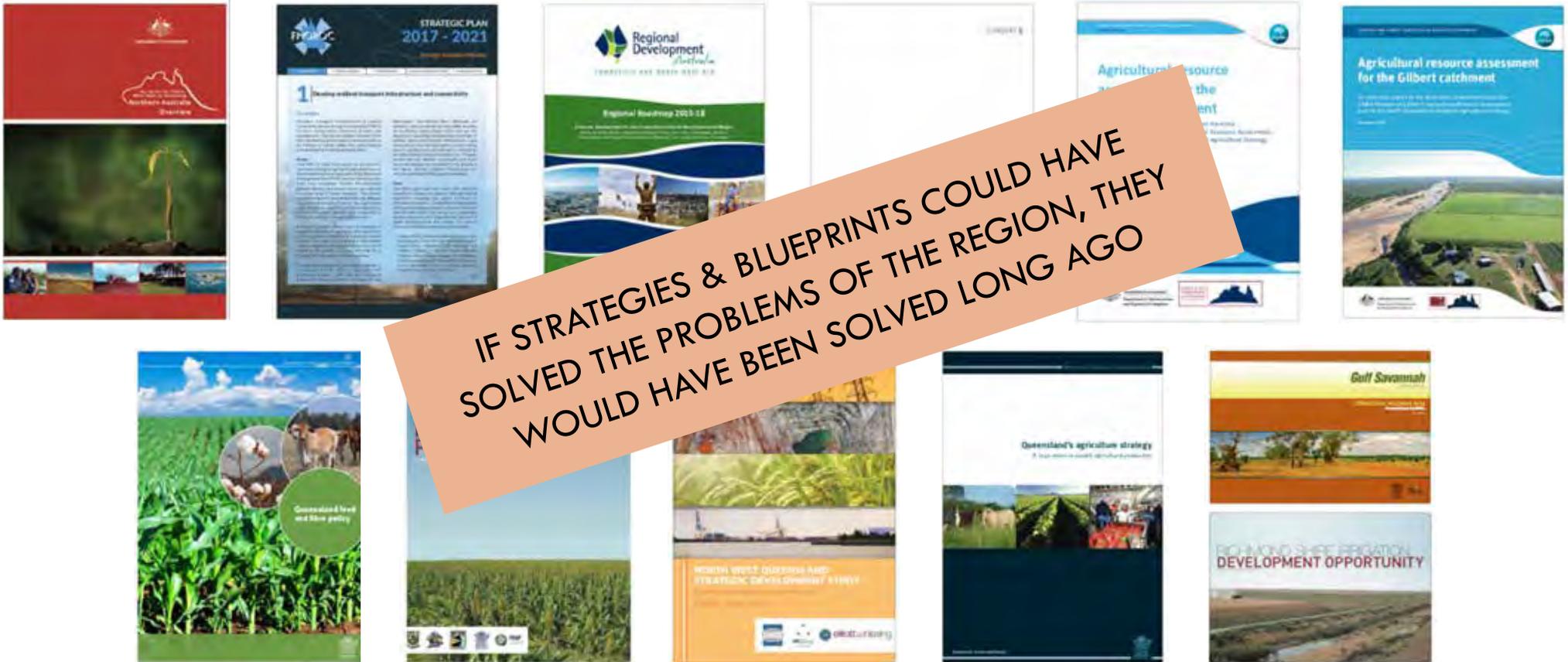
We have conducted a robust, multi-stage process, including significant stakeholder engagement



This work builds on past government strategies, reports and blueprints covering part or all of the region

EXAMPLE STRATEGIES AND PLANS

Select recent strategies; last ten years



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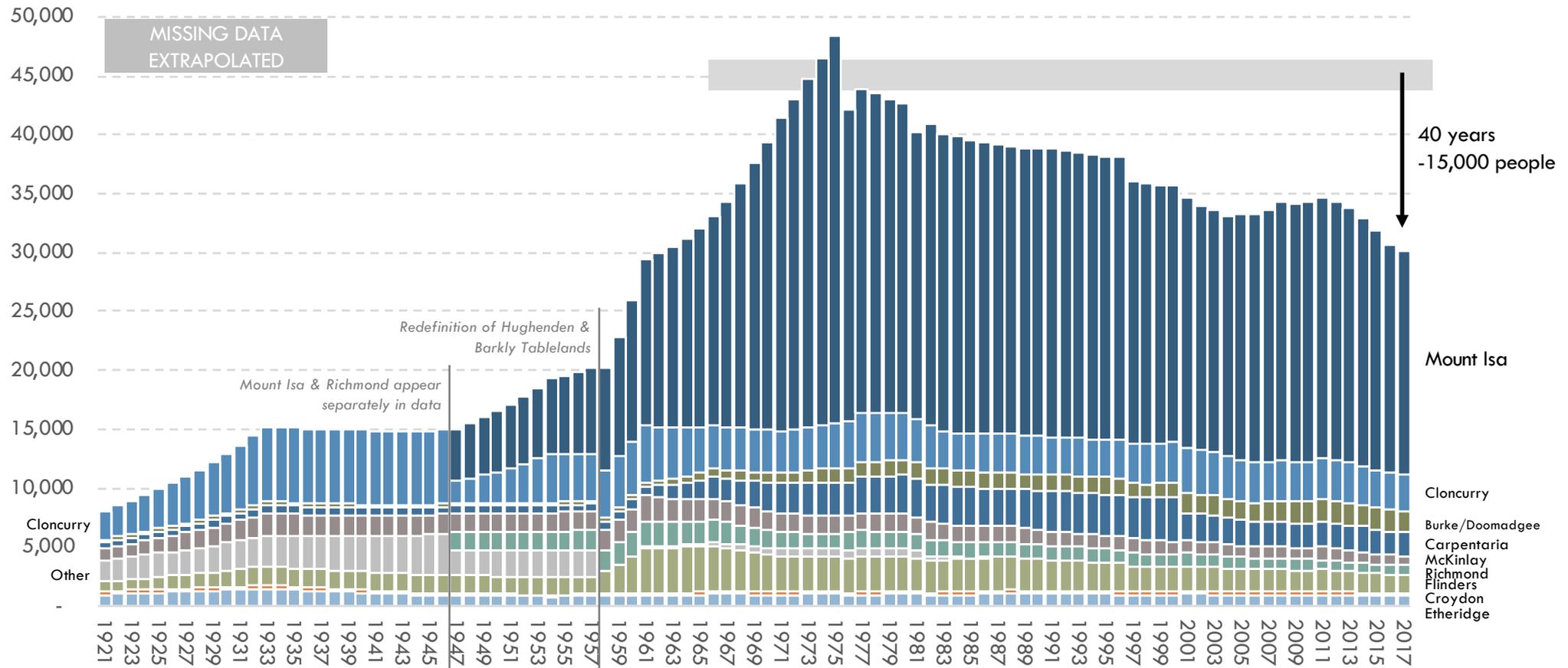
WHAT IS THE SOLUTION?

HOW DO WE IMPLEMENT?

Total regional population has been declining since the mid 1970's; longer for some areas

REGIONAL POPULATION IN NORTH WEST QUEENSLAND

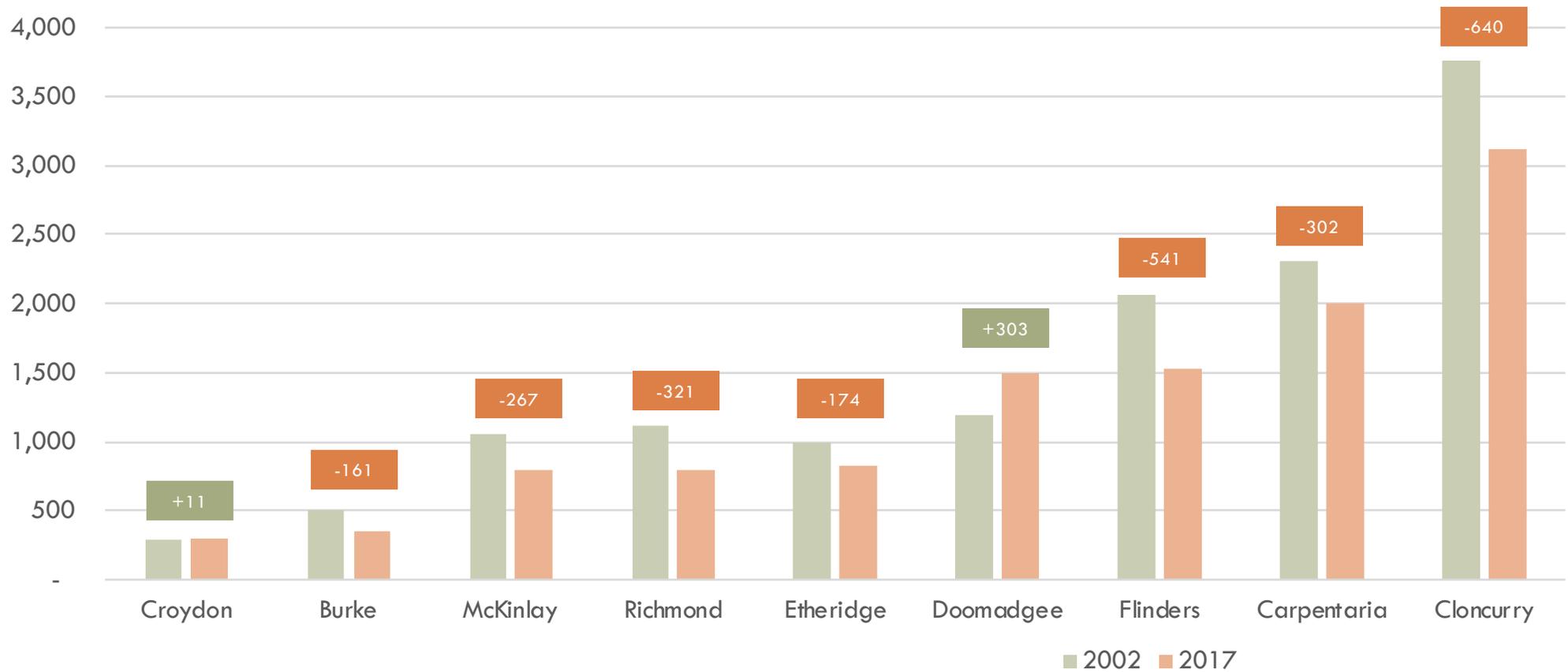
People; 1921-2017



Regional population is trending down across most regions

REGIONAL POPULATION IN NORTH WEST QUEENSLAND EXCLUDING MOUNT ISA

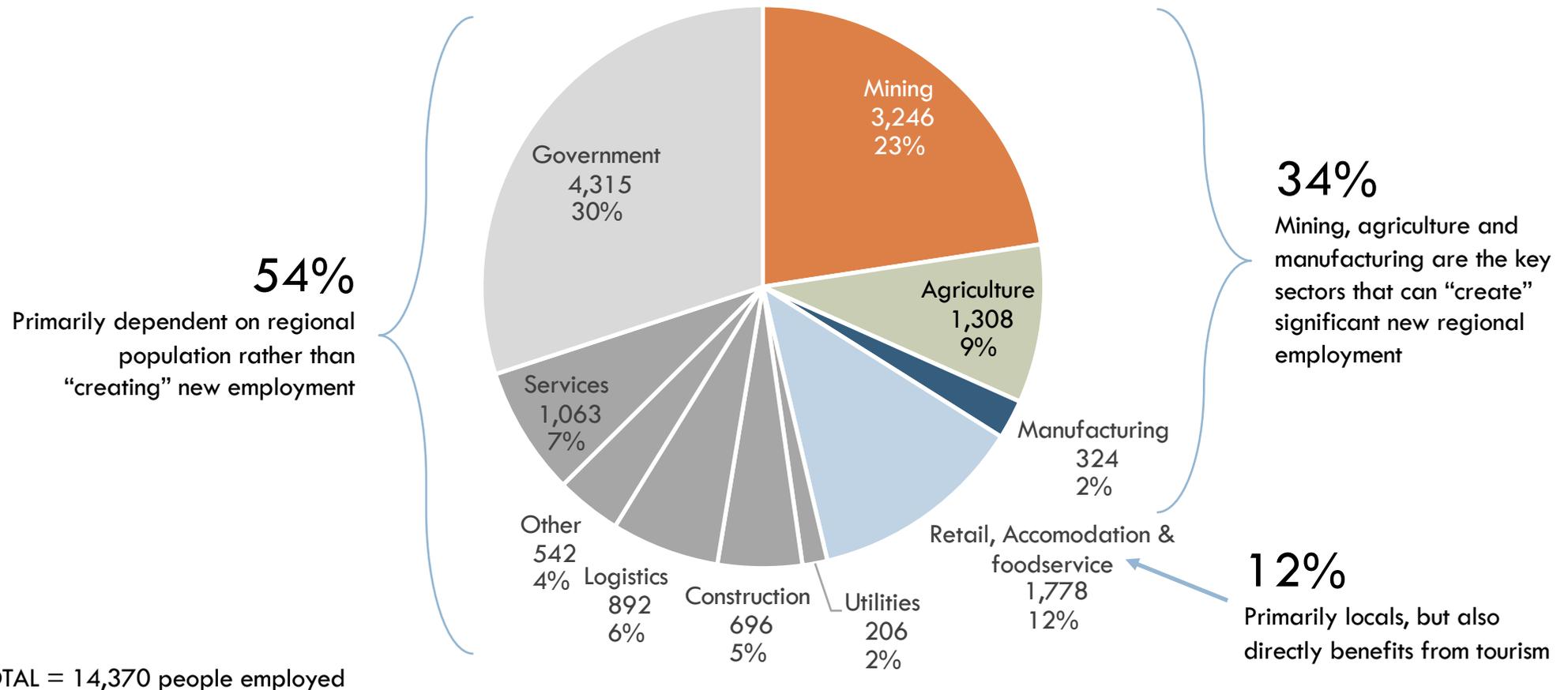
People; 15y change; 2002 vs. 2017



Why agriculture? Agriculture has the potential to “create” significant new employment

REGIONAL EMPLOYMENT IN NORTH WEST QUEENSLAND BY SECTOR

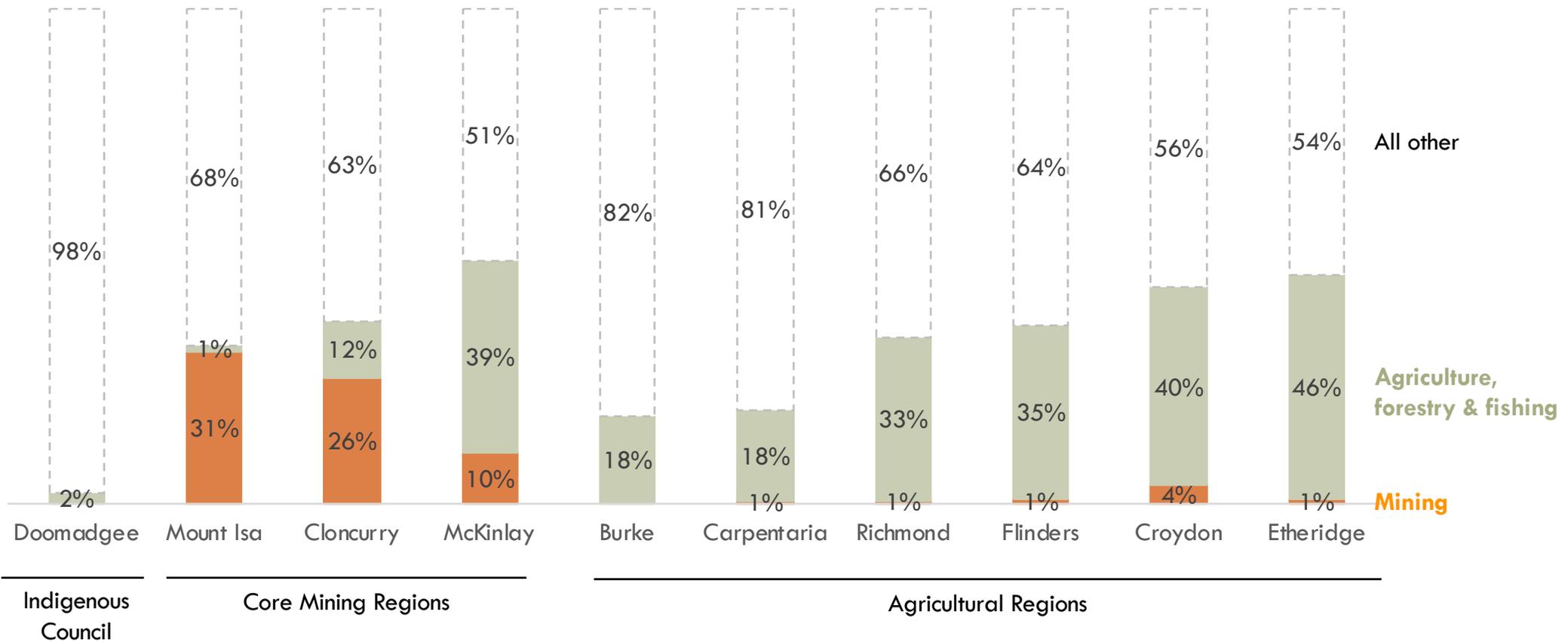
People; 2016



Agriculture is the major employer outside Mount Isa/Cloncurry

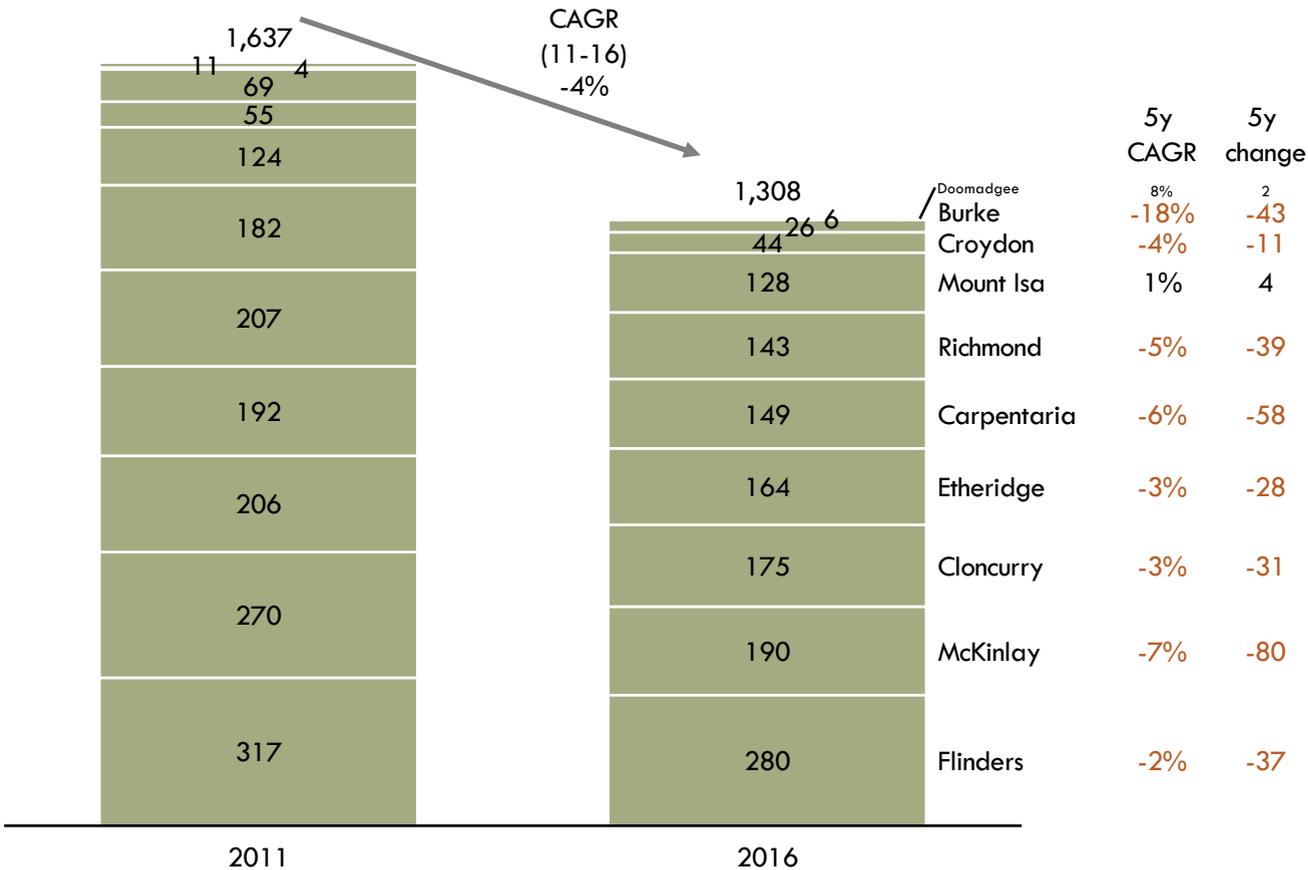
SHARE OF TOTAL REGIONAL EMPLOYMENT IN MINING & AGRICULTURE

% of employed persons; 2016



Unfortunately regional agricultural employment has been falling at 4% per year, primarily due to changes in the cattle sector

EMPLOYMENT IN AGRICULTURE, FORESTRY & FISHING IN NORTH WEST QUEENSLAND People; 2011 vs. 2016



KEY DRIVERS

- Drought
- Consolidation
- Productivity
- Changing Activities
- Changing Land Use

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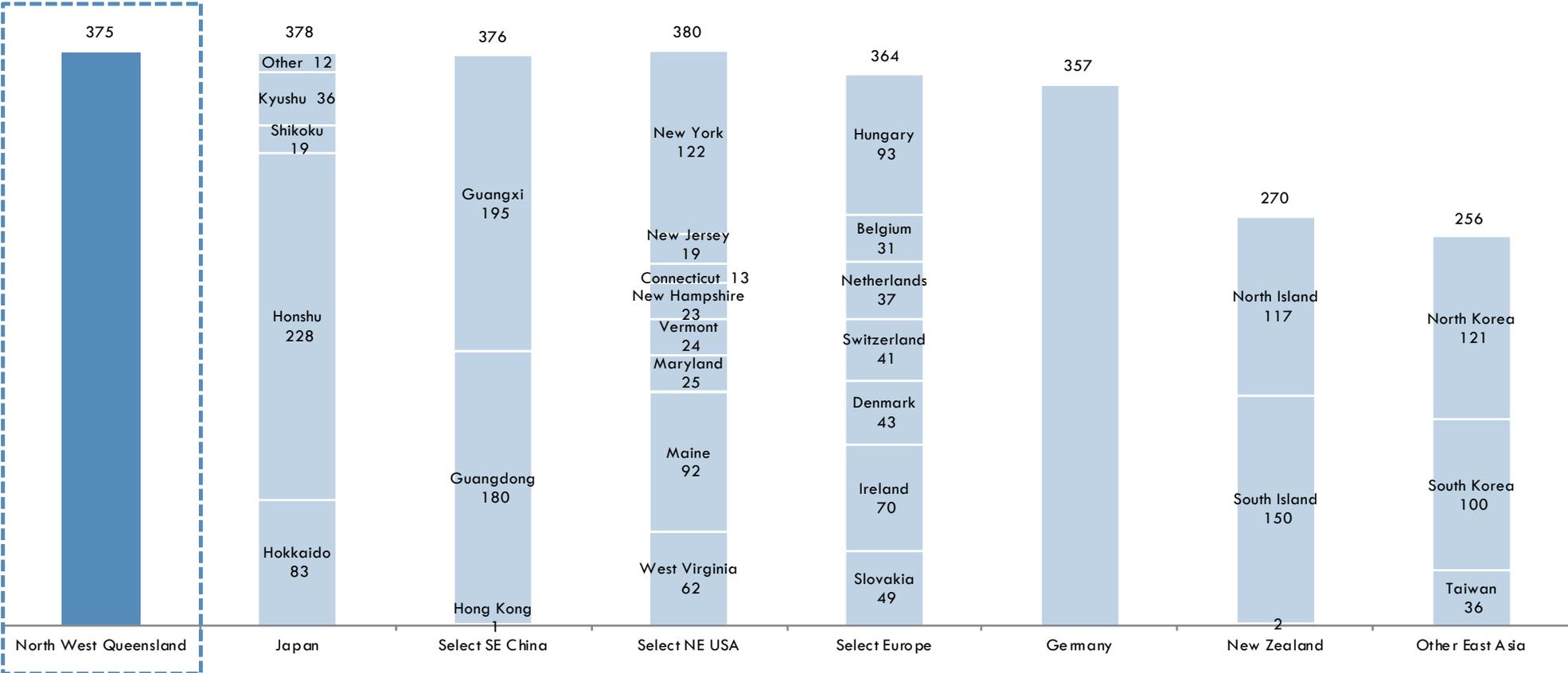
Only North West Queensland can deliver a region that combines a modern, developed economy with African climatic conditions



North West Queensland covers a vast area the size of Japan or Germany

TOTAL AREA: NORTH WEST QUEENSLAND VS. SELECT REGIONS

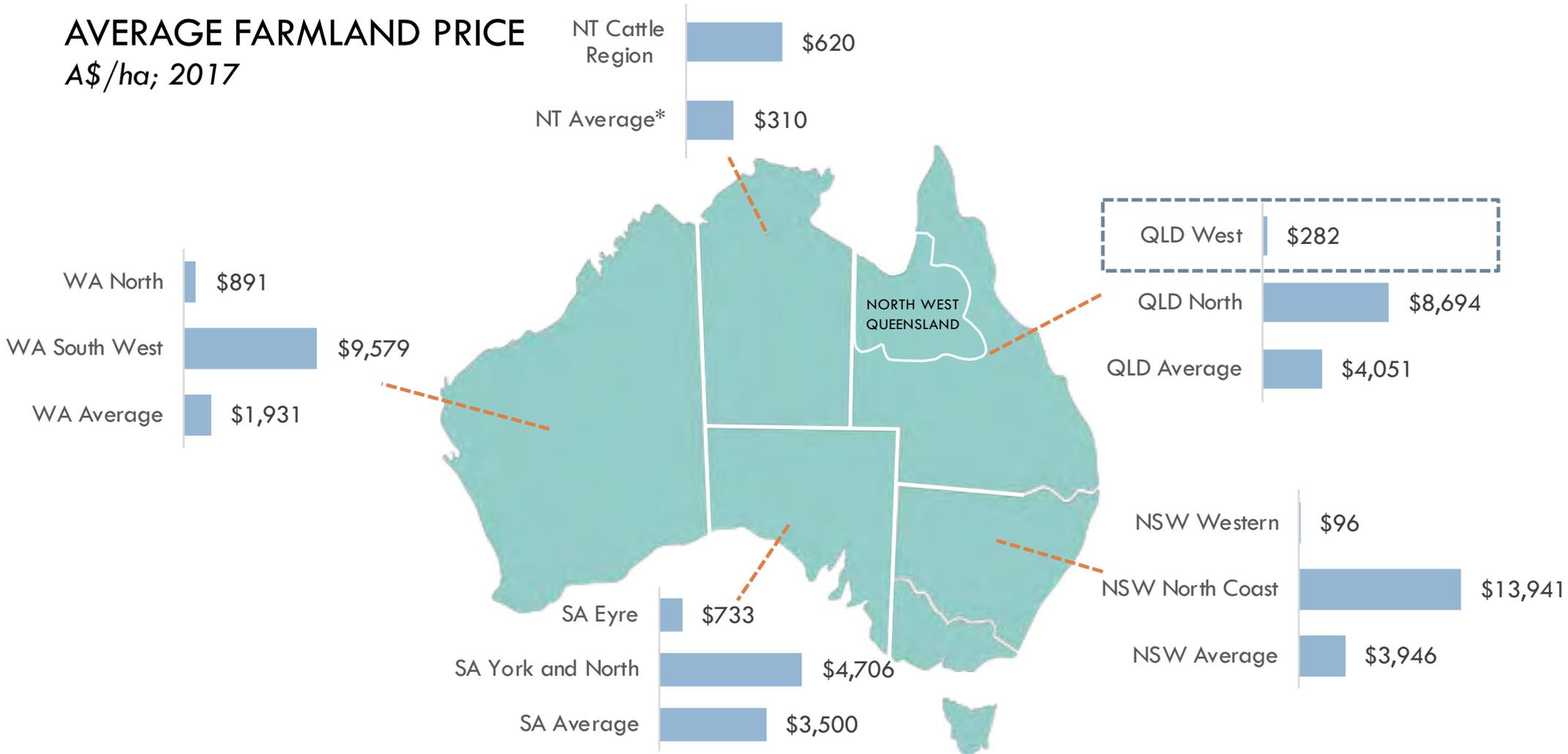
Km²; 000; 2018



Source: CIA World Fact Book; Wikipedia; Coriolis analysis

Land is cheap compared with other parts of Australia

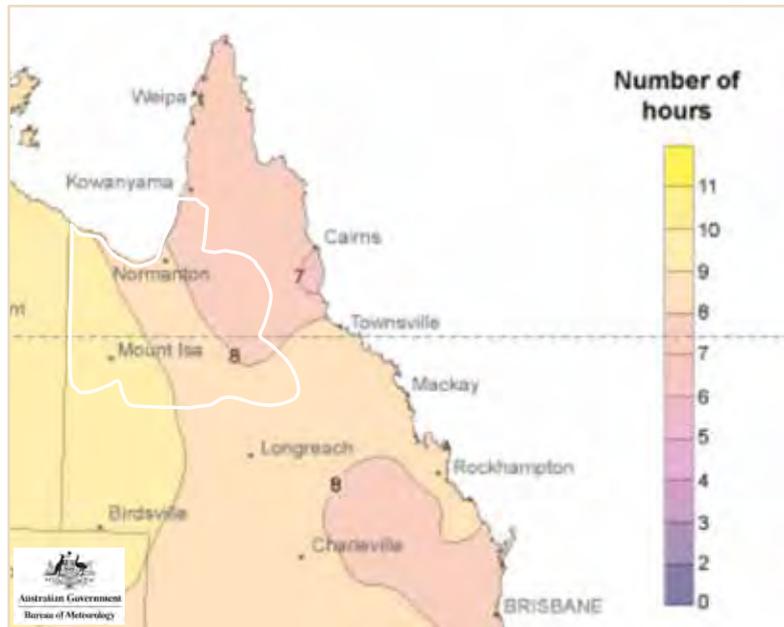
AVERAGE FARMLAND PRICE A\$/ha; 2017



*NT Median Indexed; Source: Rural Bank, Australian Farmland Values; Coriolis analysis

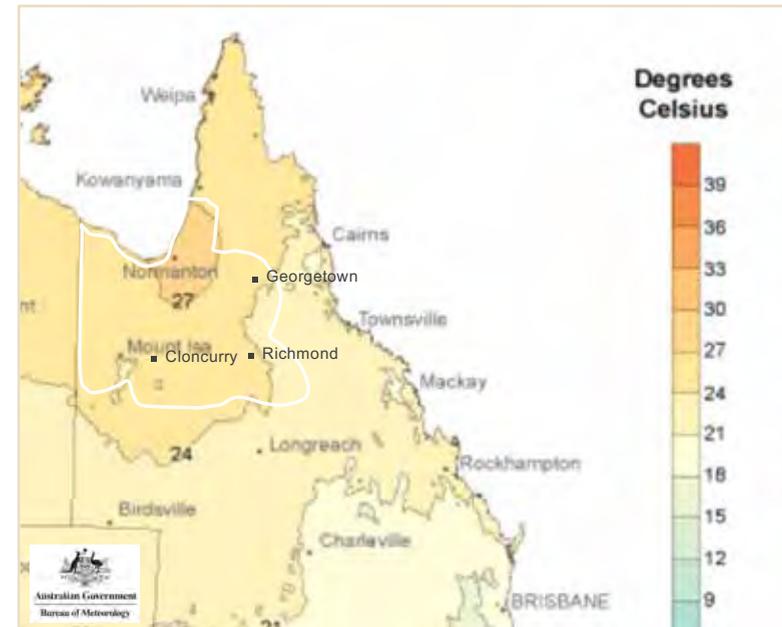
The region gets high sunshine hours and has warm average temperatures

AVERAGE DAILY SUNSHINE HOURS
Annual, 2018



Average 7-9 hrs

AVERAGE DAILY MEAN TEMPERATURE
Annual; temperature; °C

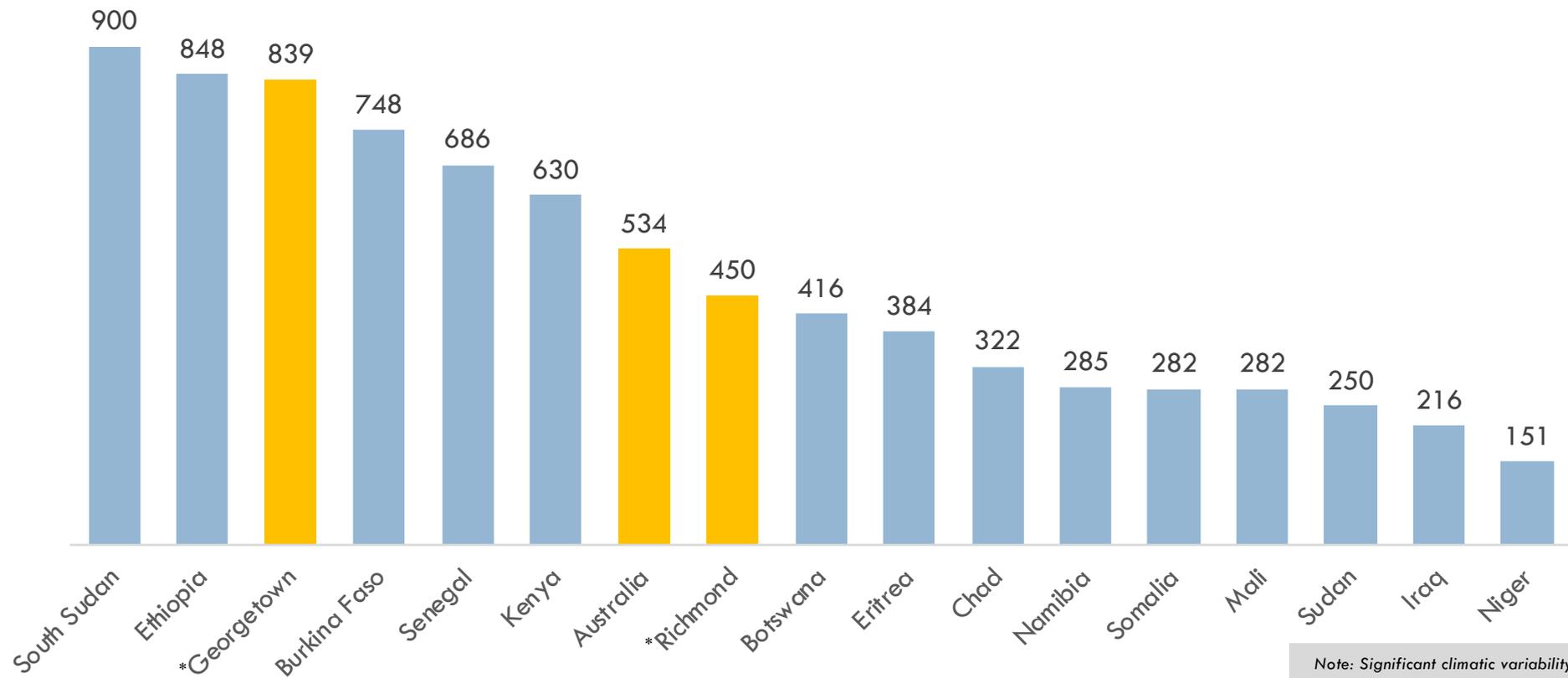


	Max.	Min.	Over # years
Normanton	42.9	6.7	18
Cloncurry	46.9	2.9	25
Richmond	45	-1	21
Georgetown	42.8	0.5	14

While the area is not a tropical paradise, it does receive more rain than many climatic peer group countries

TOTAL AVERAGE ANNUAL RAINFALL NORTH WEST QUEENSLAND VS CLIMATIC PEERS

Average precipitation in depth; mm/year; 2014

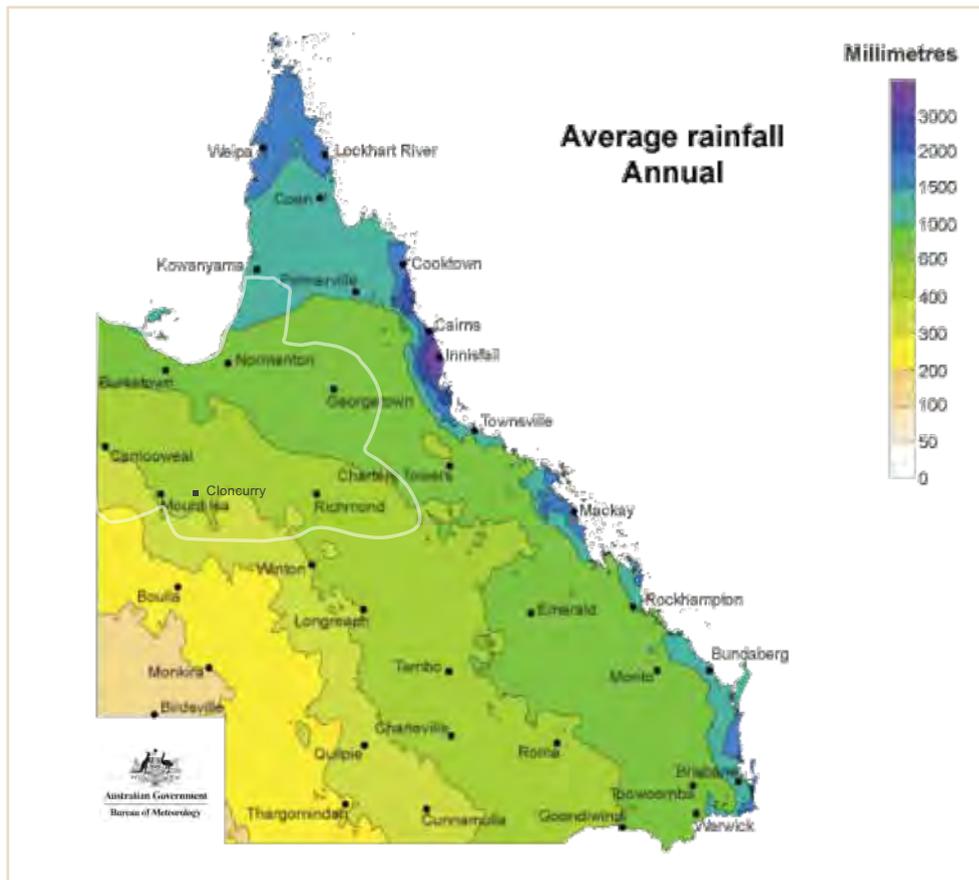


Note: Significant climatic variability apparent within the season and between seasons

However, rainfall varies significantly by location, by season...

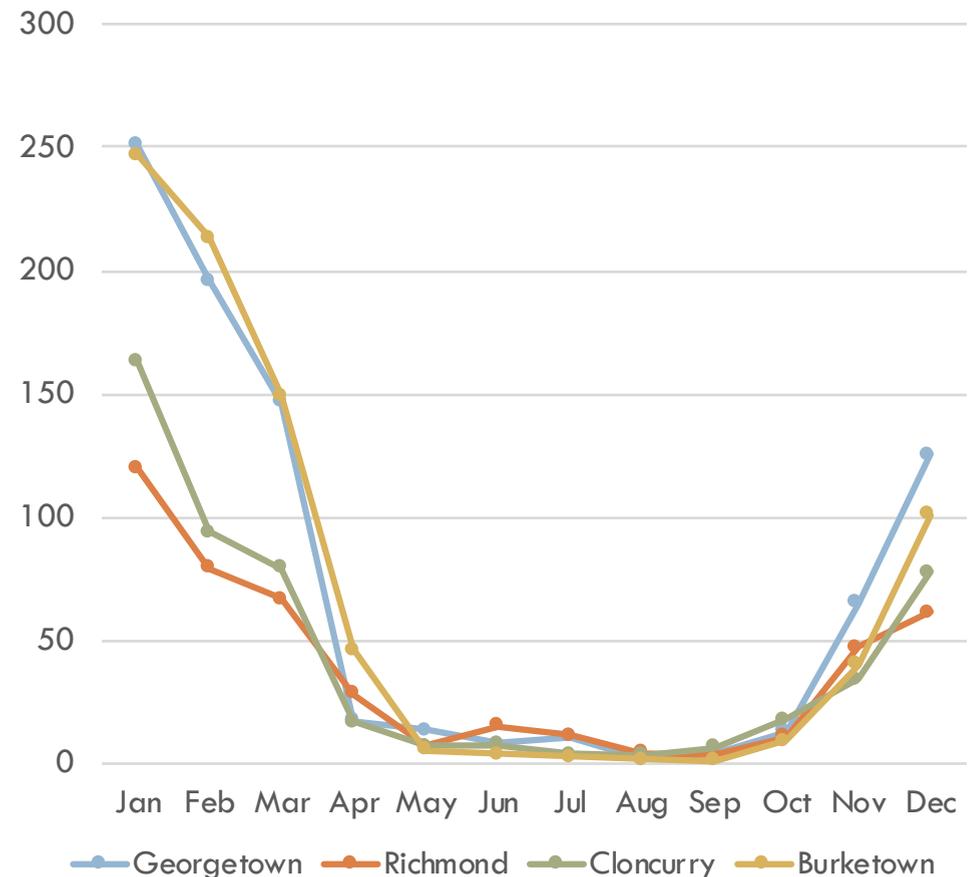
AVERAGE ANNUAL RAINFALL

Annual; average over 30 years



MEAN MONTHLY RAINFALL BY AREA

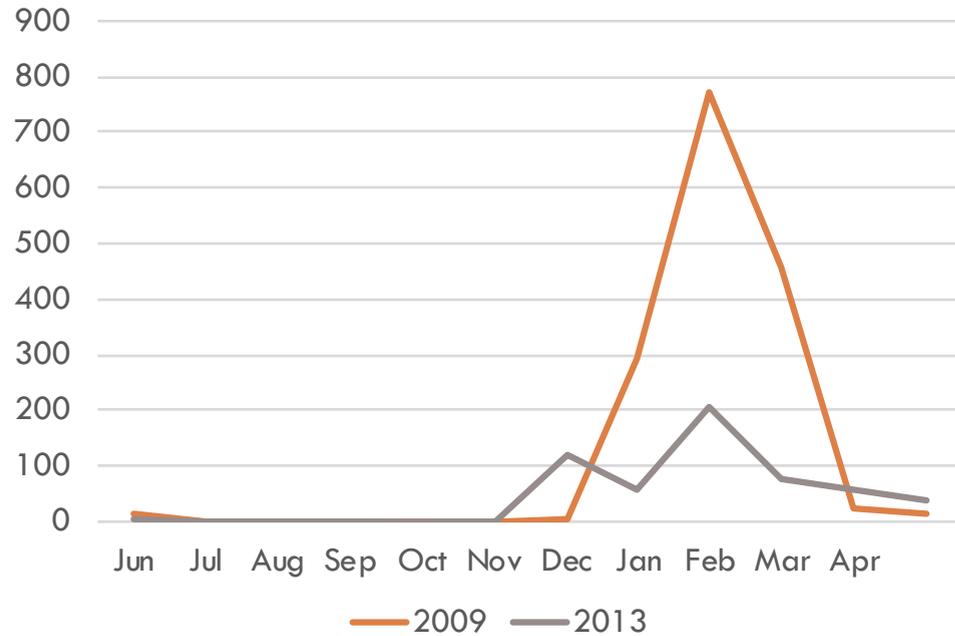
mm; long term*



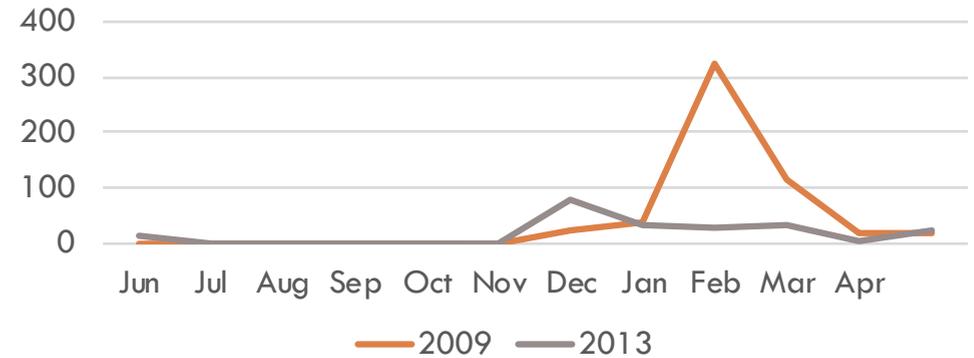
* Georgetown 14 year average, Richmond 21 year average; Cloncurry 25 year average; Burketown 17 year average; Source: Commonwealth of Australia - Bureau of Meteorology; CC3.0; modified by Coriolis; <https://creativecommons.org/licenses/by/3.0/au/>

...and year to year

GEORGETOWN TOTAL MONTHLY RAINFALL
mm/total rainfall* 2009vs2013

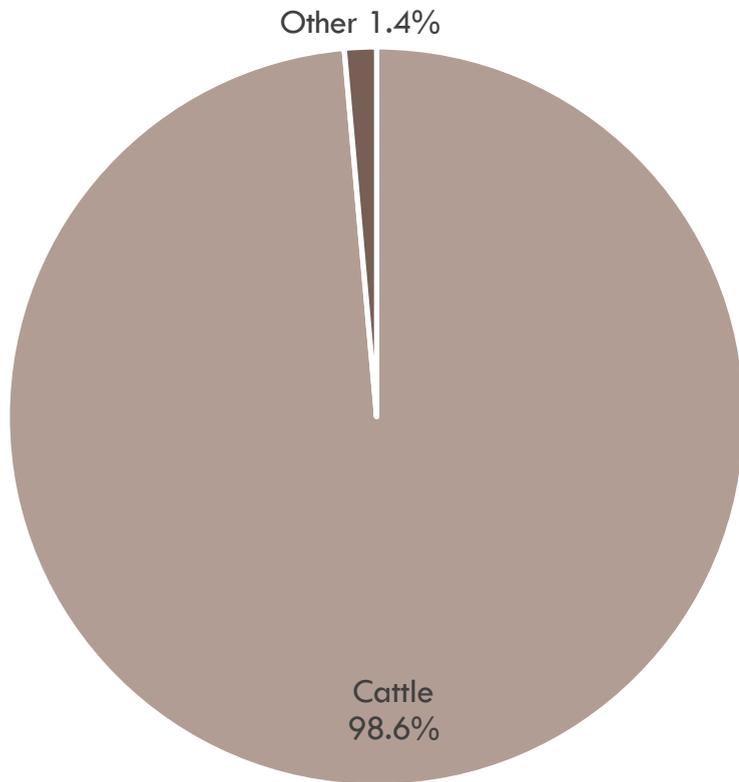


RICHMOND TOTAL MONTHLY RAINFALL
mm/total rainfall* 2009vs2013



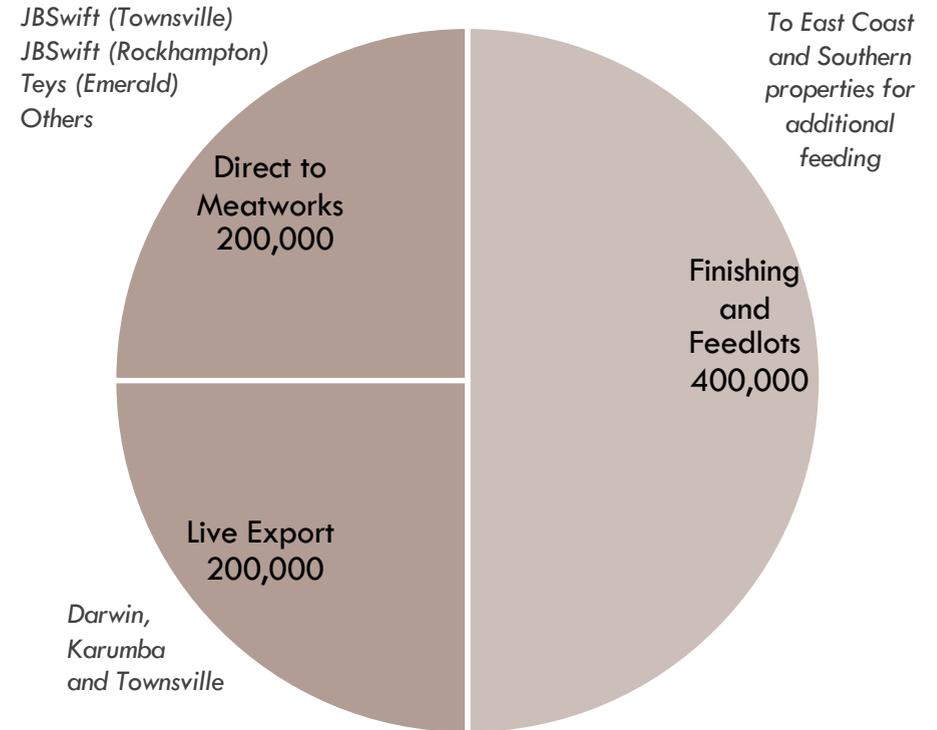
99% of regional agricultural production currently comes from cattle, with a regional turnoff of around 800k head/year

VALUE OF REGIONAL AGRICULTURE
GVP; 2016/17



TOTAL VALUE: A\$780m

REGIONAL CATTLE TURNOFF BY DEST.
Head of cattle; 2017



TOTAL = 800,000 head

North West Queensland's strength in cattle is built on solid foundations



However, regional agricultural production is currently the equivalent of “large scale herding” in Africa

HERDING IN AFRICA



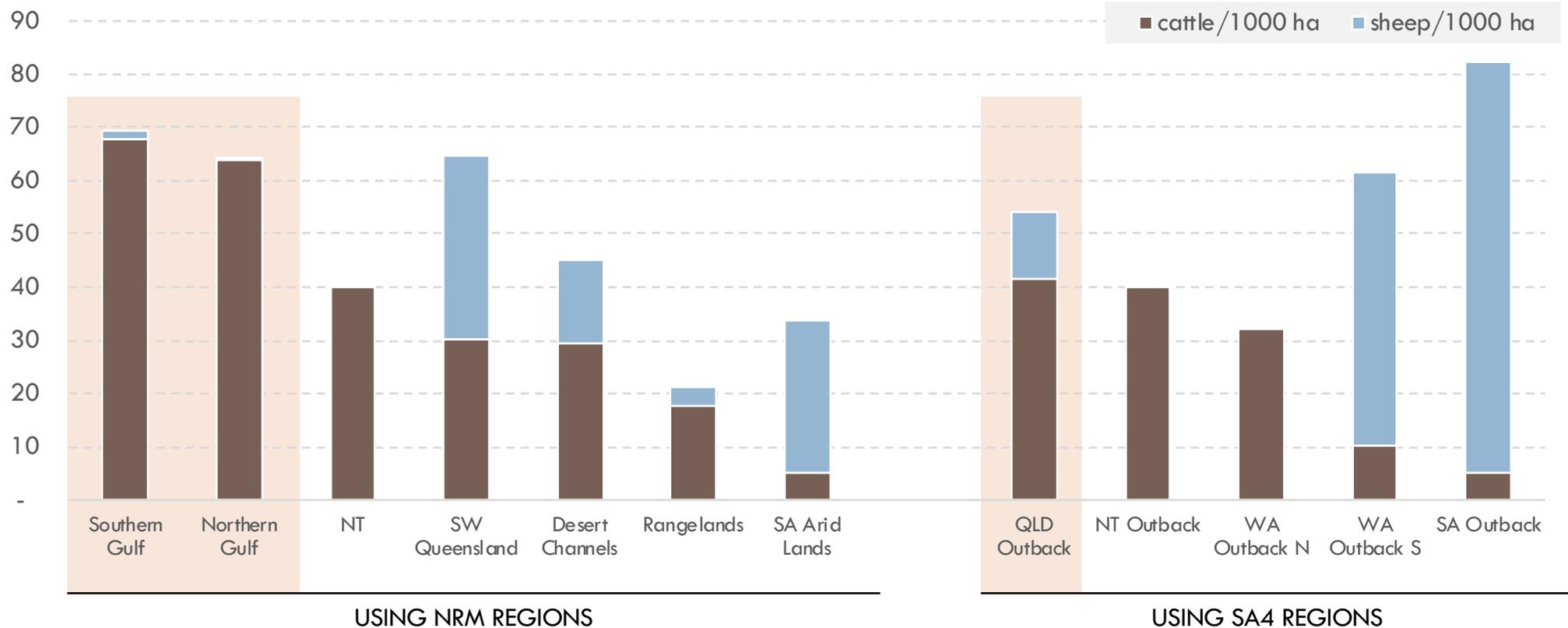
“EXTENSIVE GRAZING” IN AUSTRALIA



North West Queensland is already stocking cattle at higher densities than comparable AU regions

NUMBER OF CATTLE & SHEEP PER 1000 HECTARES OF AGRICULTURAL HOLDINGS

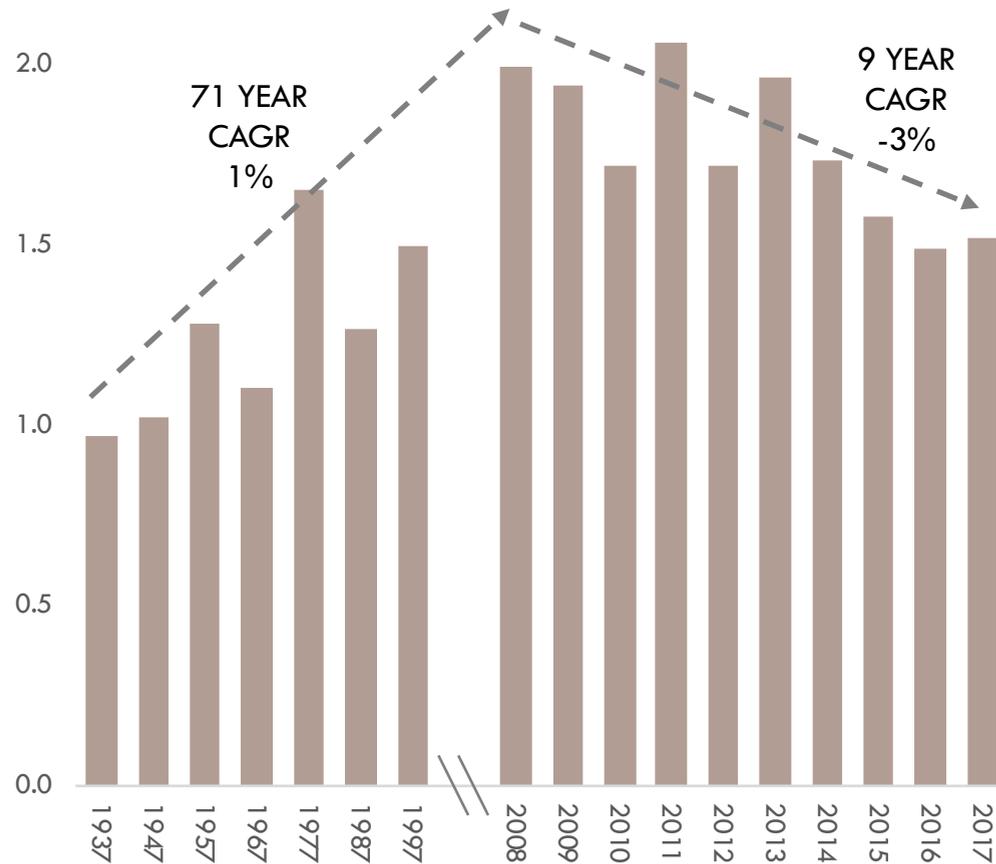
Head/1000 ha; 2017



Regional cattle numbers have stabilised recently, following a long period of growth achieved, in part, by “replacing sheep”

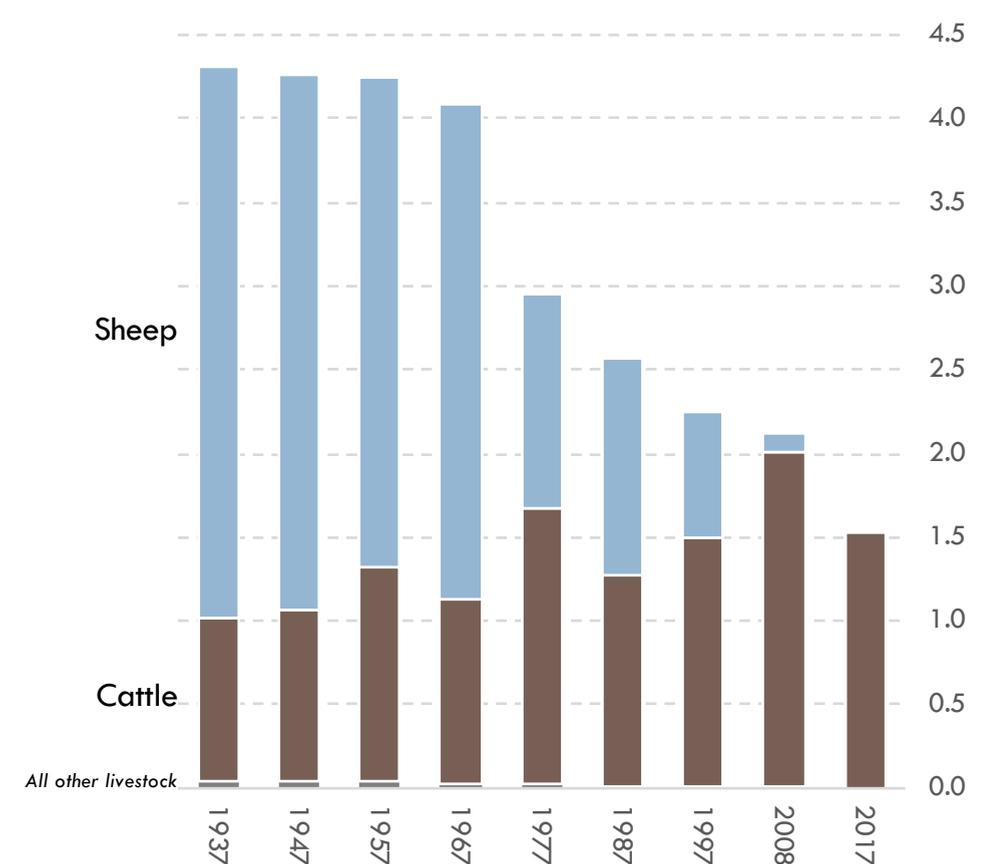
NUMBER OF CATTLE IN REGION

Head; m; point-in-time inventory; 1937-2017



OF LIVESTOCK IN REGION

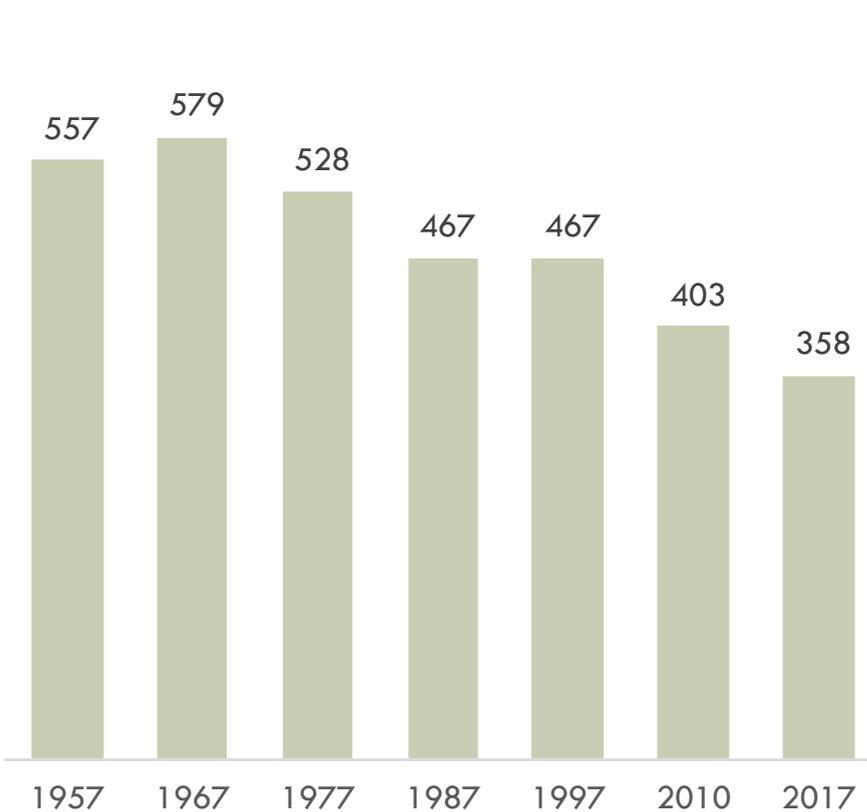
Head; m; point-in-time inventory; 1937-2017



Regional pastoral or beef enterprises are improving efficiency and productivity through consolidation into fewer, larger farms

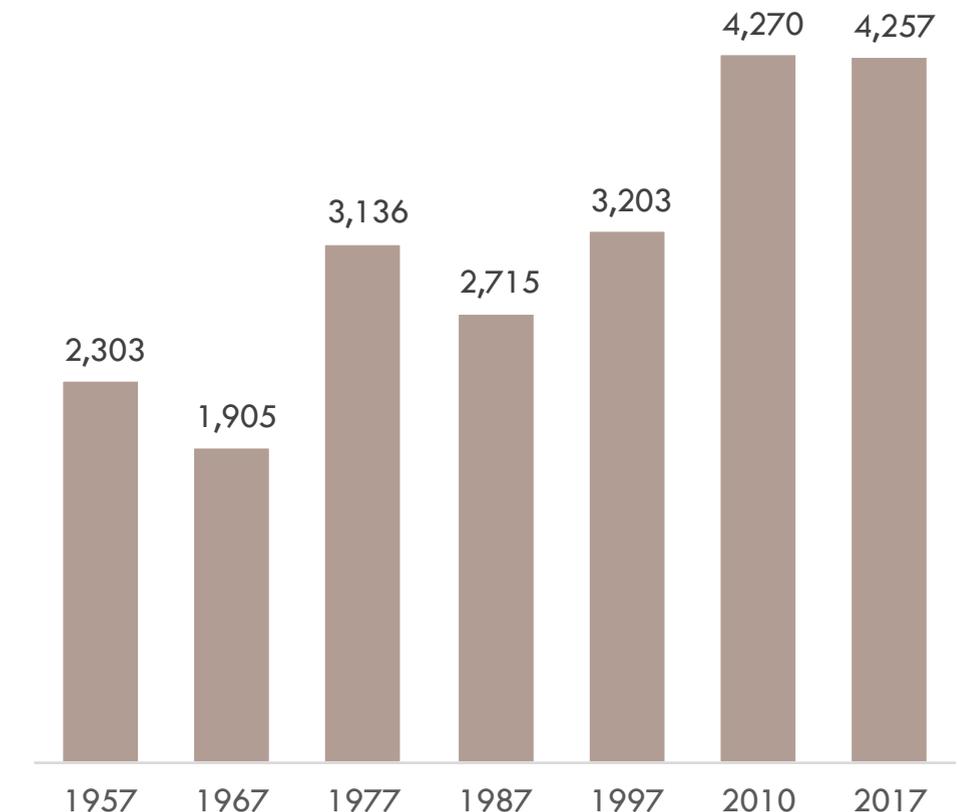
NUMBER OF FARMS WITH CATTLE

Units; 1957-2017



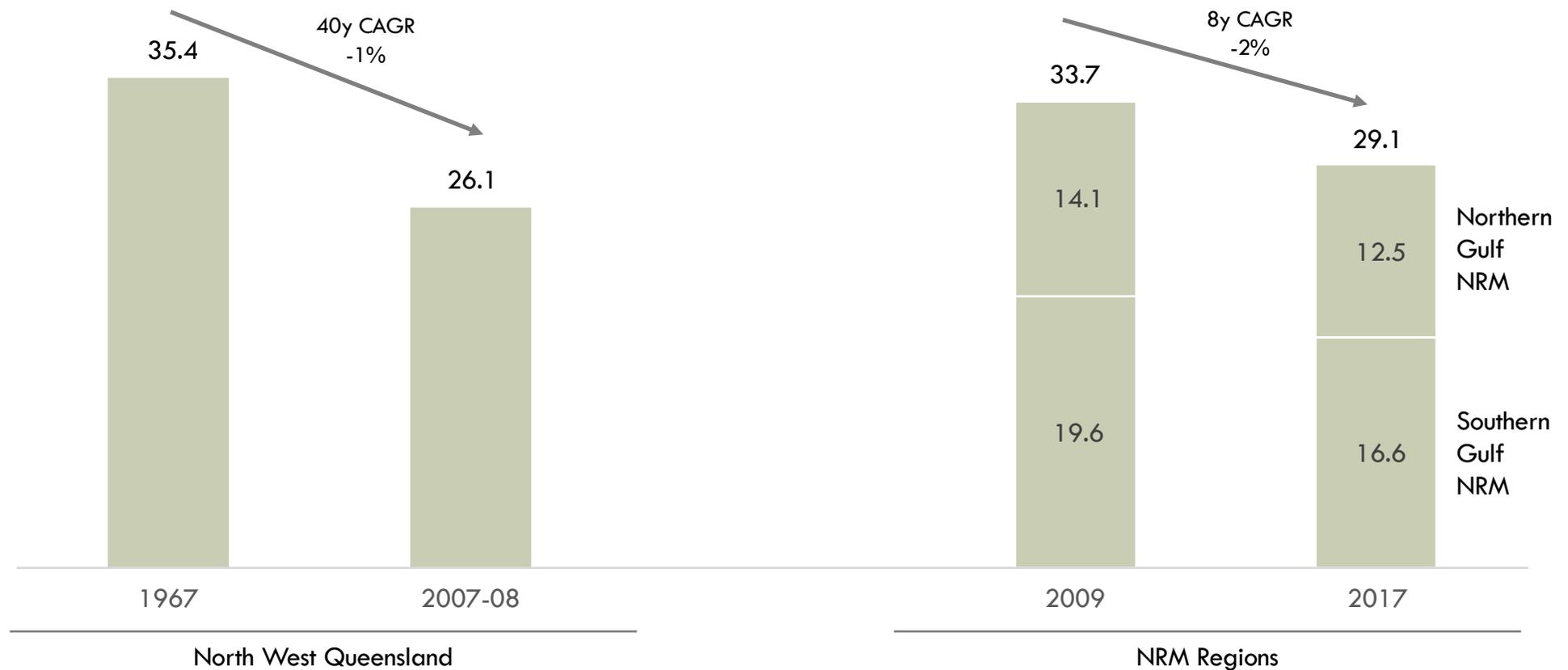
AVERAGE HEAD OF CATTLE/FARM

Head/units; 1957-2017



The total area of agricultural holdings in North West Queensland is declining

TOTAL AREA OF AGRICULTURAL HOLDINGS IN NORTH WEST QUEENSLAND REGION
Hectares; m; 1967-2017



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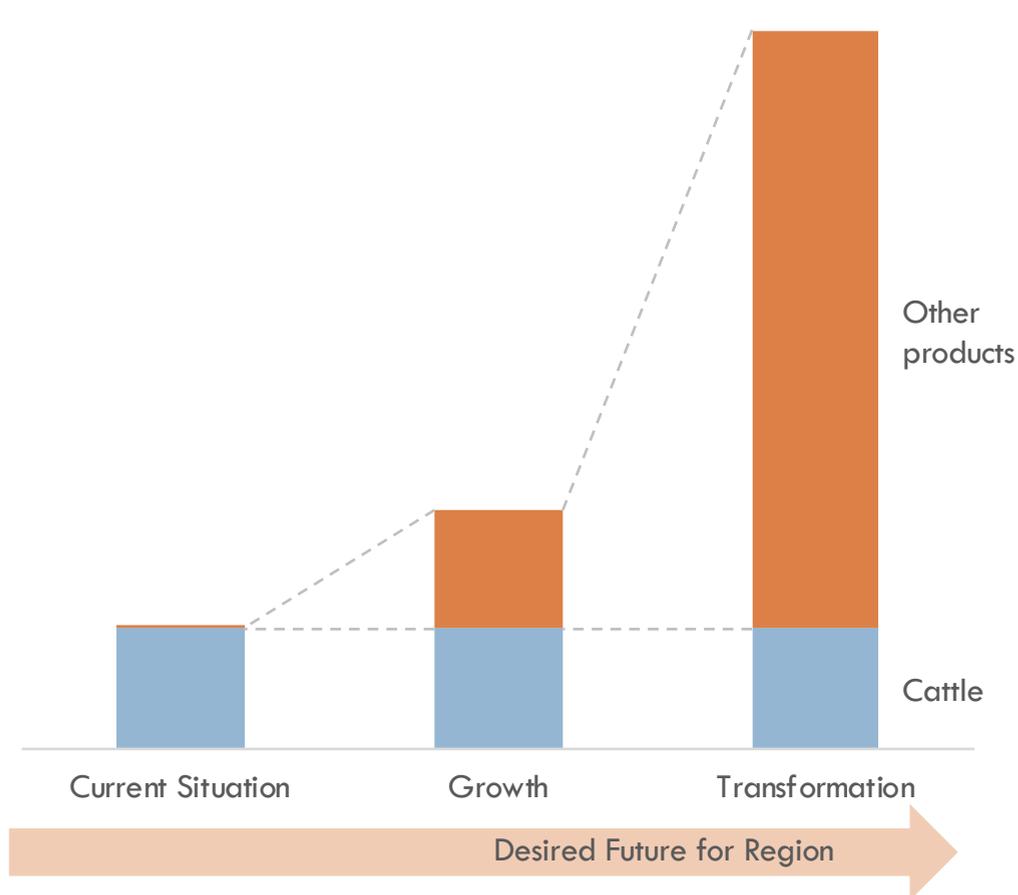
WHAT DO WE HAVE TO WORK WITH?

HOW DO WE FIND NEW IDEAS BEYOND CATTLE?

WHAT IS THE SOLUTION?

HOW DO WE IMPLEMENT?

The region needs new ideas beyond cattle



Leading to...

- Higher value per hectare
- Higher overall output
- Further processing in the region
- More diverse skills & capabilities
- Higher regional employment
- A vibrant regional economy
- People attracted to the region

However, the North is a harsh region where it is difficult to innovate

“What we grew last year we can feed a few cattle this year and we will. But we are very wary about whether the price we receive for the cattle will cover the cost of the feeding... [The station] has shifted away from its original intentions to use the feedlot as a means of fattening cattle for slaughter... We're not against the concept, **but if you spend a few years doing something that's costing you more money than you're making, it just seems silly.** We're mainly using the feedlot facility and the farm to grow and store feed ready for the next drought... We're not really intending to try and fatten a lot of cattle. The expensive side of feedlotting is trying to put the fat on the cattle, and we think other people with grain feedlots can do that a lot better and cheaper than we can.”

Michael Crisp, Station Manager,
Lorraine Station, April 2017

“Doing things in the North isn't about maximising returns...

It's about **minimising risk.**”

Station owner

Producing crops in the region is not a new idea; numerous products have been tried in the last 100 years

MAJOR/COMMERCIAL CROPS RECORDED AS PRODUCED IN NW QUEENSLAND

Select; 1930's-2010's

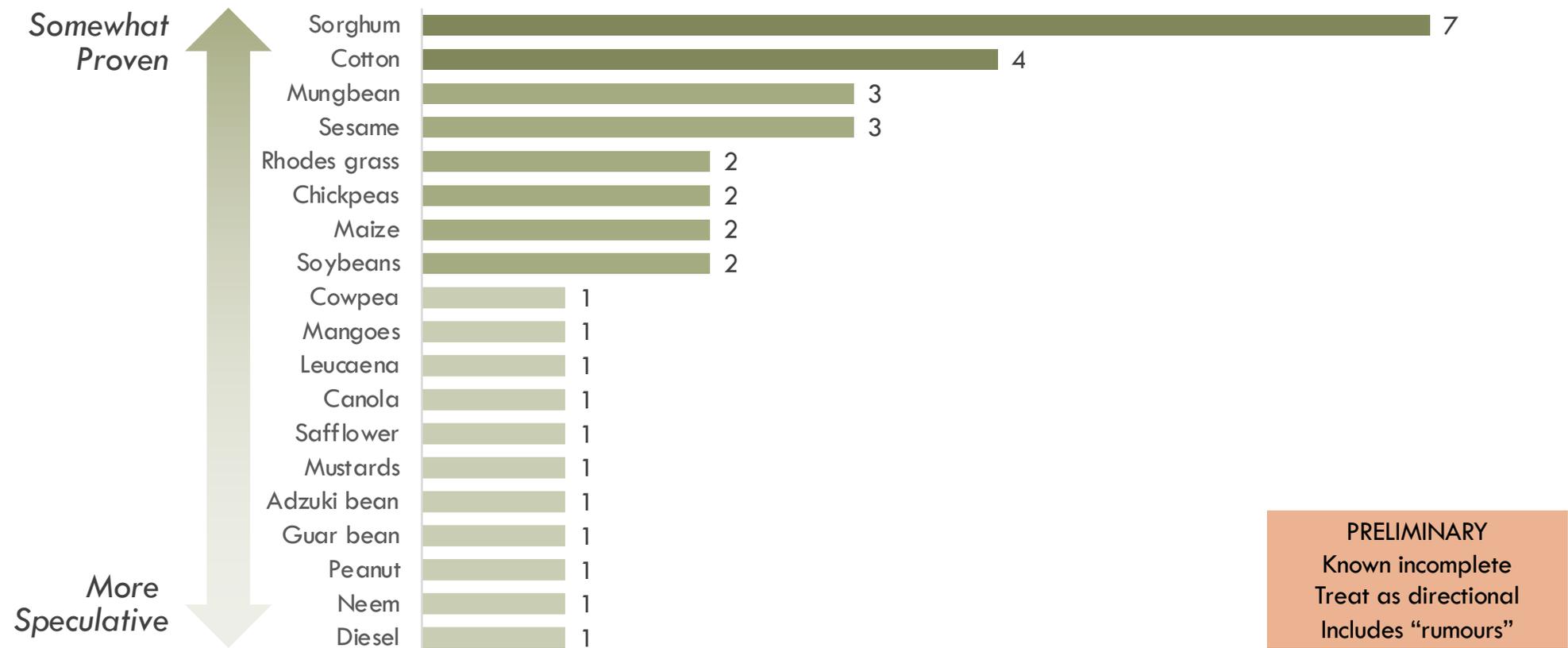
1930's	1940's	1950's	1960's	1970's
Maize	<i>No ag recorded</i>	Maize Tomatoes Tobacco	Cotton	Maize Grain sorghum Tomatoes
1980's	1990's	2000's	2010's	
Maize Pineapples Potatoes Bananas	Wheat Grain sorghum	Wheat Barley Grain sorghum	Grain sorghum Cotton Safflower Chickpeas Mangos	

If there was an easy solution, everyone would be doing it already

A wide range of crops are currently being trialed or grown in the region across a range of locations

NUMBER OF KNOWN, RUMOURED OR TRIALED PRODUCTION SITES

Separate farming operations; 2018 or recently



Crops that are – or have been – produced in the region can be triaged into three types

HORIZON 2



FEED/FODDER

Primarily fed to cattle on farm or sold locally



PROVEN CASH CROPS

Will be produced where there is water and where it stacks up economically

HORIZON 3



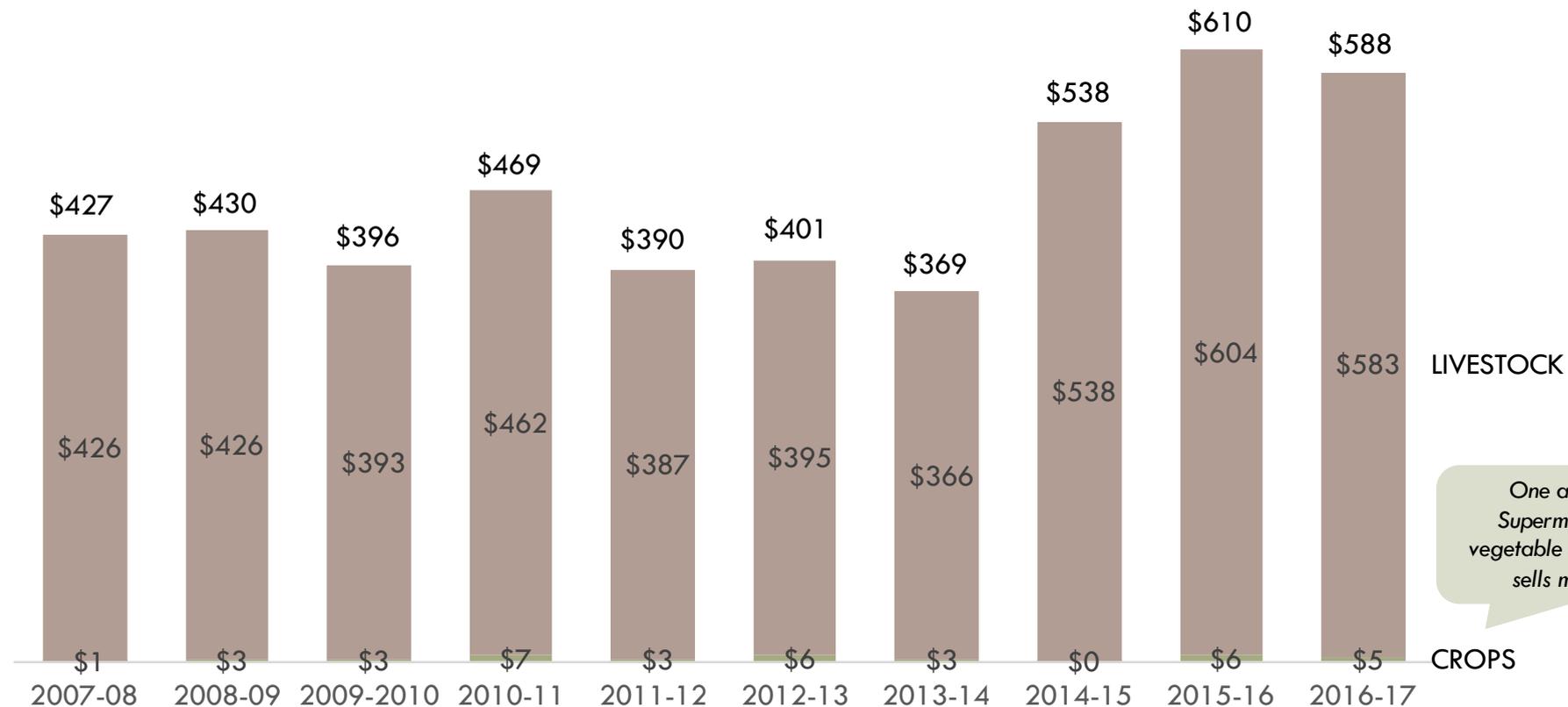
EXPERIMENTAL

Need a viable, proven farming system, regional scale, a low cost supply chain and a market

Unfortunately, diversification efforts in the region have failed to make much headway to date

GROSS VALUE OF AGRICULTURAL PRODUCTION SOUTHERN GULF

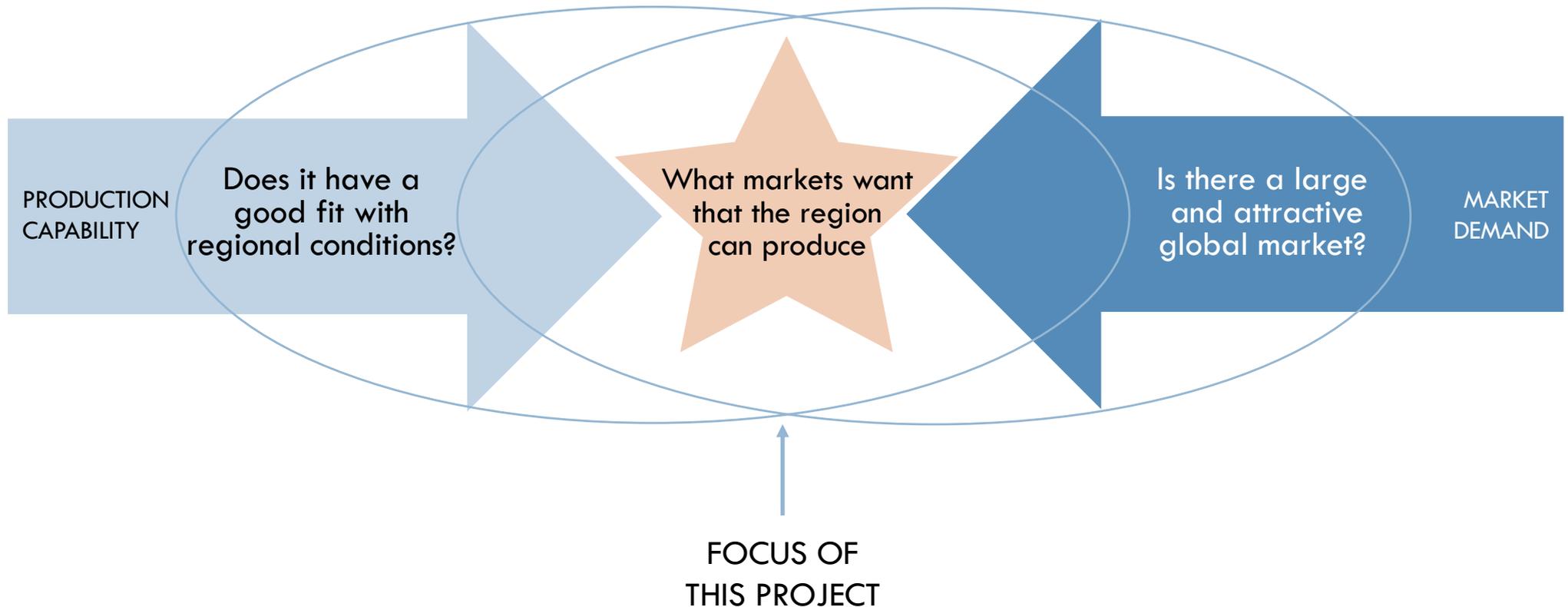
A\$; m; 2008-17; Southern Gulf NRM region



Increasing agricultural production in North West Queensland faces a range of key limitations or challenges



Research sought high potential products that **both** (1) fit regional conditions **and** (2) had large and attractive global markets

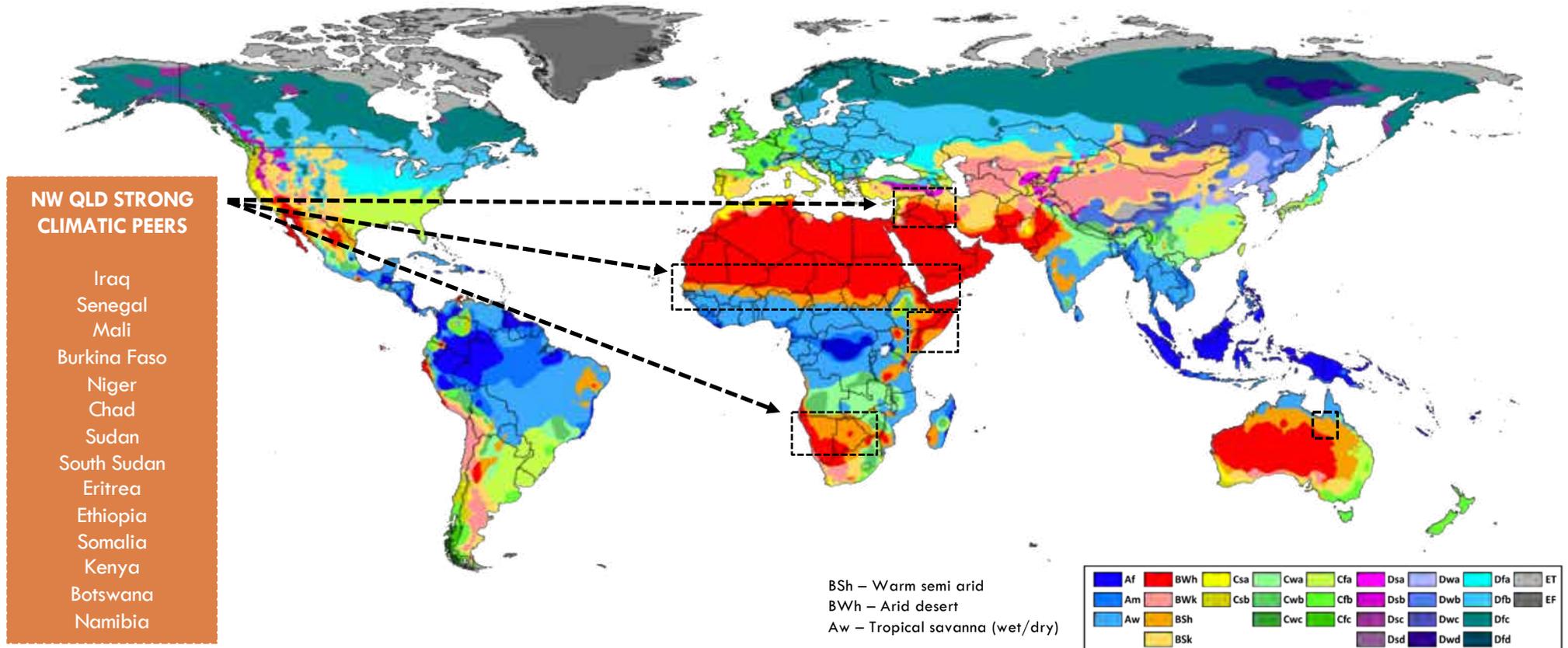


SEE RELATED REPORT FOR DETAILED ANALYSIS

Fourteen countries with a strongly similar climate to North West Queensland were identified as climatic peers

CLIMATIC ZONES OF THE WORLD – NW QLD CLIMATIC PEERS

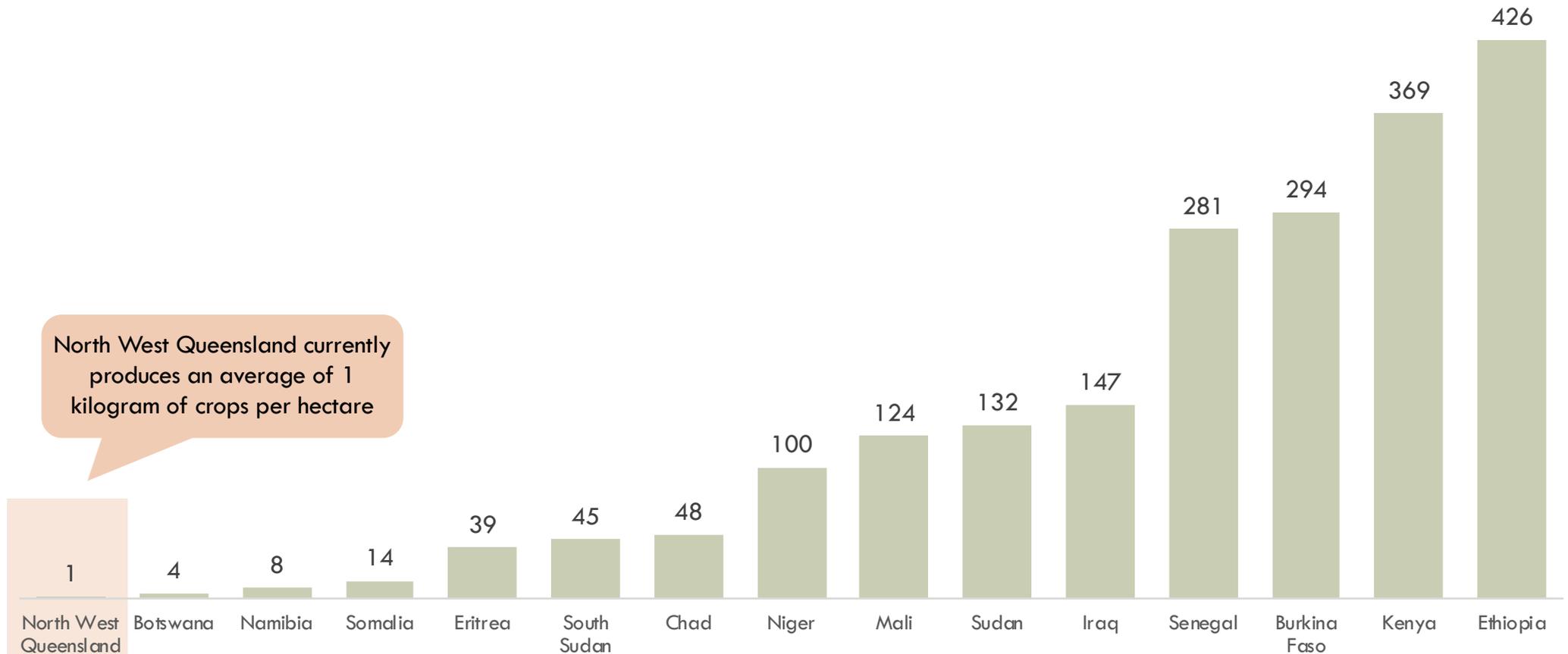
Köppen-Geiger Classification



North West Queensland is not currently intensively farmed relative to climatic peers

TOTAL CROP PRODUCTIVITY/INTENSITY: NORTH WEST QUEENSLAND VS. PEERS

Kilograms/ha; total land area; 2016 or 2016/17*

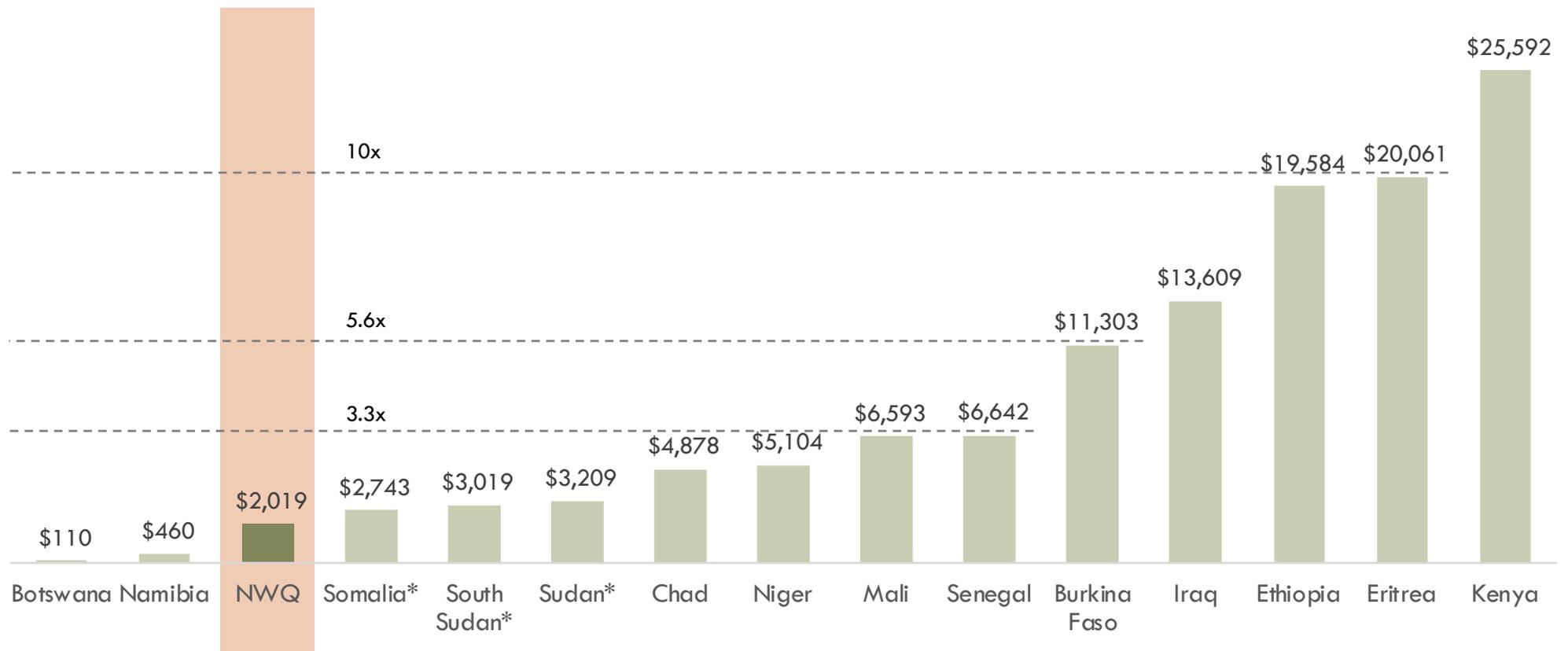


Note: includes arable crops, root crops, vegetables, tree crops and fruit; *NWQ uses 2016/17. Source: World Bank; UN FAOSTAT; ABS; Coriolis estimates and analysis

Strong climatic peers produce a lot more overall total (plant and animal) agricultural value per square kilometre

VALUE OF AGRICULTURAL PRODUCTION PER TOTAL SQUARE KILOMETRE

US\$/km²; all agriculture/total land area of country; 2015 or 2016/17[^]



[^]NWQ GVP 2016/17; *Uses International Currency; Source: World Bank; UNFAO; ABS; Coriolis estimates and analysis

Climatic peers are achieving export success by producing a wider range of products for export; products that markets want to buy

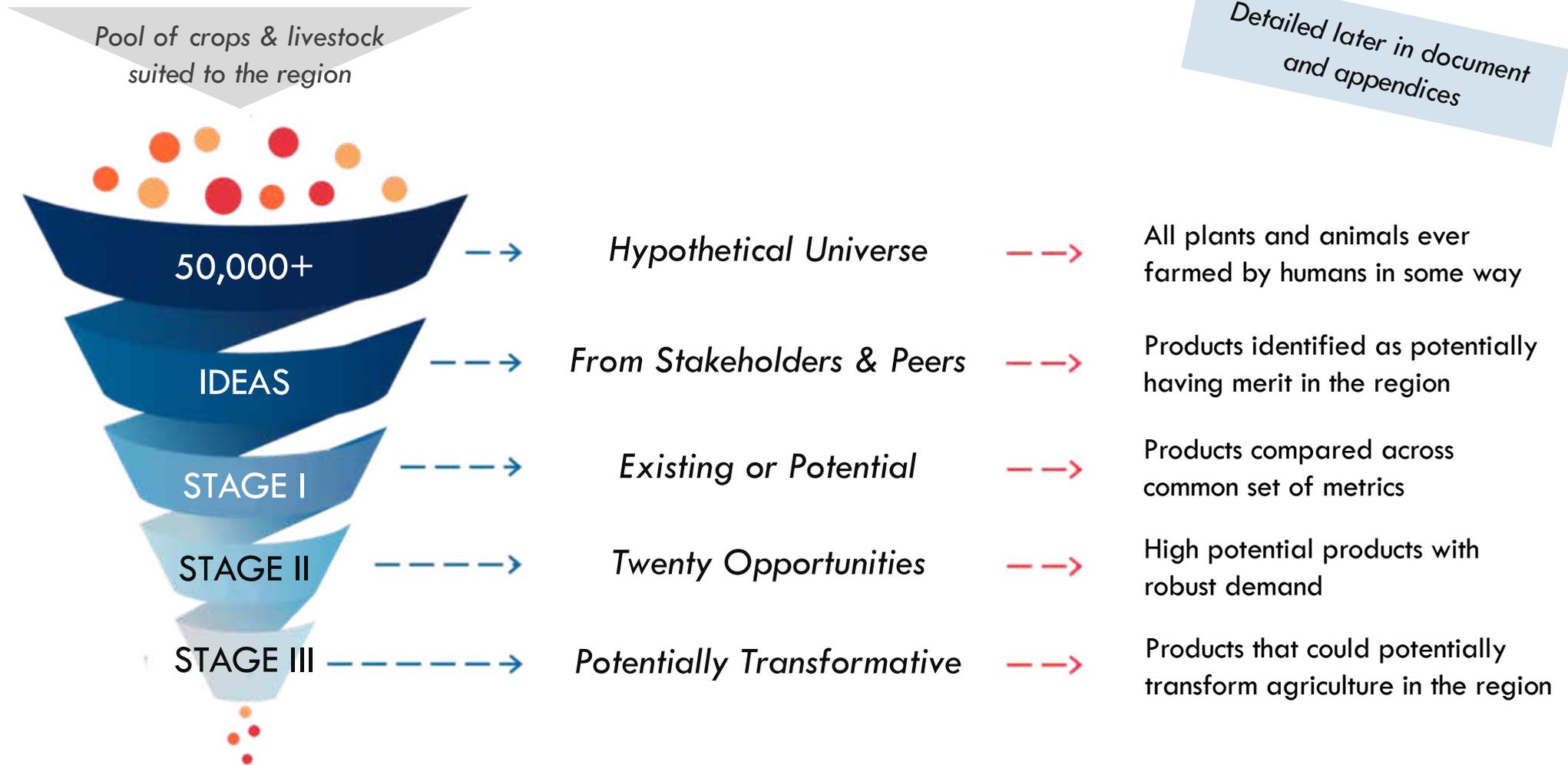
AFRICAN PEER GROUP REGIONS



NORTH WEST QUEENSLAND



The project used a multi-stage screening process to identify products with high growth potential



One hundred new and emerging products were considered for the region

SEE RELATED REPORT FOR DETAILED ANALYSIS

ANIMALS

AQUACULTURE

Barramundi
Prawn
Redclaw Crayfish
Silver Perch



MEAT

Buffalo Meat
Camel Meat
Emu Meat
Goatmeat
Kangaroo Meat
Ostrich Meat
Rabbit Meat
Wild Pig



DAIRY

Buffalo Milk
Camel Milk
Goat Milk
Sheep Milk



FIBRE/LEATHER

Alpaca Fibre
Crocodile
Goat Fibre



BROADACRE/FIELD CROPS

ANIMAL FEED

Amaranth
Bambatsi
Canary Grass
Grain Sorghum

Lablab
Leucaena
Lucerne
Maize



INDUSTRIAL

Blue Agave
Castor
Cotton
Flaxseed
Guar
Hemp
Jute
Kenaf

Mustard
Safflower
Stevia
Sugarcane
Sunn Hemp
Triodia ("Spinifex")



FOOD

Bambara
Canola
Chia
Chickpea
Coriander
Fenugreek
Fonio
Lentil
Mate
Mungbean

Native Rice
Peanut
Pearl Millet
Peppercorn
Quinoa
Rice
Sesame
Soybean
Sunflower
Teff



HORTICULTURE

Bitter Melon
Cassava
Chilli
Cucumber
Horned Melon
Melon
Okra
Onion
Pumpkin/Squash
Snake Bean
Sweet Corn
Sweet Potato
Taro
Yam



TREE CROPS

NUTS

Cashew
Coconut
Jajoba

Pistachio
Shea
Tung



FRUIT

Baobab
Custard Apple
Date
Desert Date
Jackfruit
Lemon/Lime
Mango

Marula
Pitaya
Pomegranate
Table Grape
Tamarind



NATIVE FOODS

Native Foods
(Desert limes, Davidson plum, Kakadu plum, wattleseed, caperbush, wild orange, wild passionfruit, conkerberry, ruby saltbush, desert fig, doubah, emu apple, quandong, bush tomato, parakeelya, bush potato, pencil yam, peppercreesses, large pigweed, mulga seeds, dogwood seeds, witchetty bush seeds)



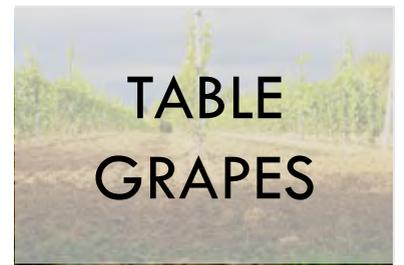
PLANTATION

African Mahogany
Eucalyptus Oil
Indian Sandalwood

Oil Palm
Pongamia
Mallee



Twenty specific opportunities emerged in Stage II of this process



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North West Queensland has three horizons for agricultural growth

THREE HORIZONS OF GROWTH FRAMEWORK: NORTH WEST QUEENSLAND

Model; 2017

HORIZON 1

Grow & build cattle



HORIZON 2

Support emerging projects & products



HORIZON 3

Discover & develop new options



Horizon 1 for North West Queensland agriculture is growing and building on the region's cattle operations

THREE HORIZONS OF GROWTH FRAMEWORK: NORTH WEST QUEENSLAND

Model; 2017



Horizon 2 for North West Queensland agriculture will be enabled by investment in irrigation infrastructure

THREE HORIZONS OF GROWTH FRAMEWORK: NORTH WEST QUEENSLAND

Model; 2017

HORIZON 1

Grow & build cattle



HORIZON 2

Support emerging projects & products



HORIZON 3

Discover & develop new options



There are significant amounts of water in the region available for agricultural development

SURFACE WATER GENERAL UNALLOCATED VOLUMES AND RELEASES

ML; Water Plan (Gulf) region; 2018

	TOTAL VOLUMES OF "GENERAL UNALLOCATED WATER" (ML) AS OF SEPT 2017*	EXISTING IRRIGATION PRIOR TO 2012 (ML)	GENERAL UNALLOCATED WATER RELEASES SINCE 2012 (ML)		
			GRANTED JULY 2012	GRANTED NOV 2015	GRANTED AUG 2017
Flinders River Catchment	239,650	17,280	80,000	92,500	7,500
Gilbert River Catchment	467,000	9,115	14,200		Process ongoing
Other Catchments	24,900			7,500	
Gulf Total	731,550		94,200	100,000	Process ongoing

PRELIMINARY
Review of secondary sources out of scope

Major proposed water projects in the region could unlock 115,000ha of productive farmland and enable strong growth

MAJOR PROPOSED WATER PROJECTS IN VARIOUS STAGES OF DEVELOPMENT

As of late 2018

PROJECT NAME	PROPOSED WATER SUPPLY	PROPOSED AREA IRRIGATED
Gilbert River Irrigation Scheme	200,000 ML	20,000 ha
3 Rivers Irrigation Project	150,000 ML	15,000 ha
Richmond Agricultural Project	100,000 ML	11,000 ha
North West Queensland Water Storage (Cave Hill Dam)	248,000ML	4,000-12,000ha
Dismal Creek Depression (Strathmore Station)	350,000 ML	35,000 ha
Other (Smaller, enterprise driven projects)		~25,000 ha
TOTAL	1,048,000 ML	~115,000 ha

PRELIMINARY
Review of secondary sources out of scope

As an example of other, smaller developments in progress, Etta Plains has 19,500 ha of potential crop land and available water

EXAMPLE: ETTA PLAINS CROPPING INVESTMENT OPPORTUNITY

Latest available

AJM Pastoral

Property 28,442ha (120km North Julia Creek)

- 19,500ha potential cropping land
- 9,500ha identified for irrigation agricultural development
- 10,000ha dryland cropping

- 39,500ML water allocation from the Flinders River

- Gravity feed irrigation, sloping land suitable for irrigation
- Opportunity for irrigation and dryland
- No clearing required (Downs Country)
- Black soil, self-cracking

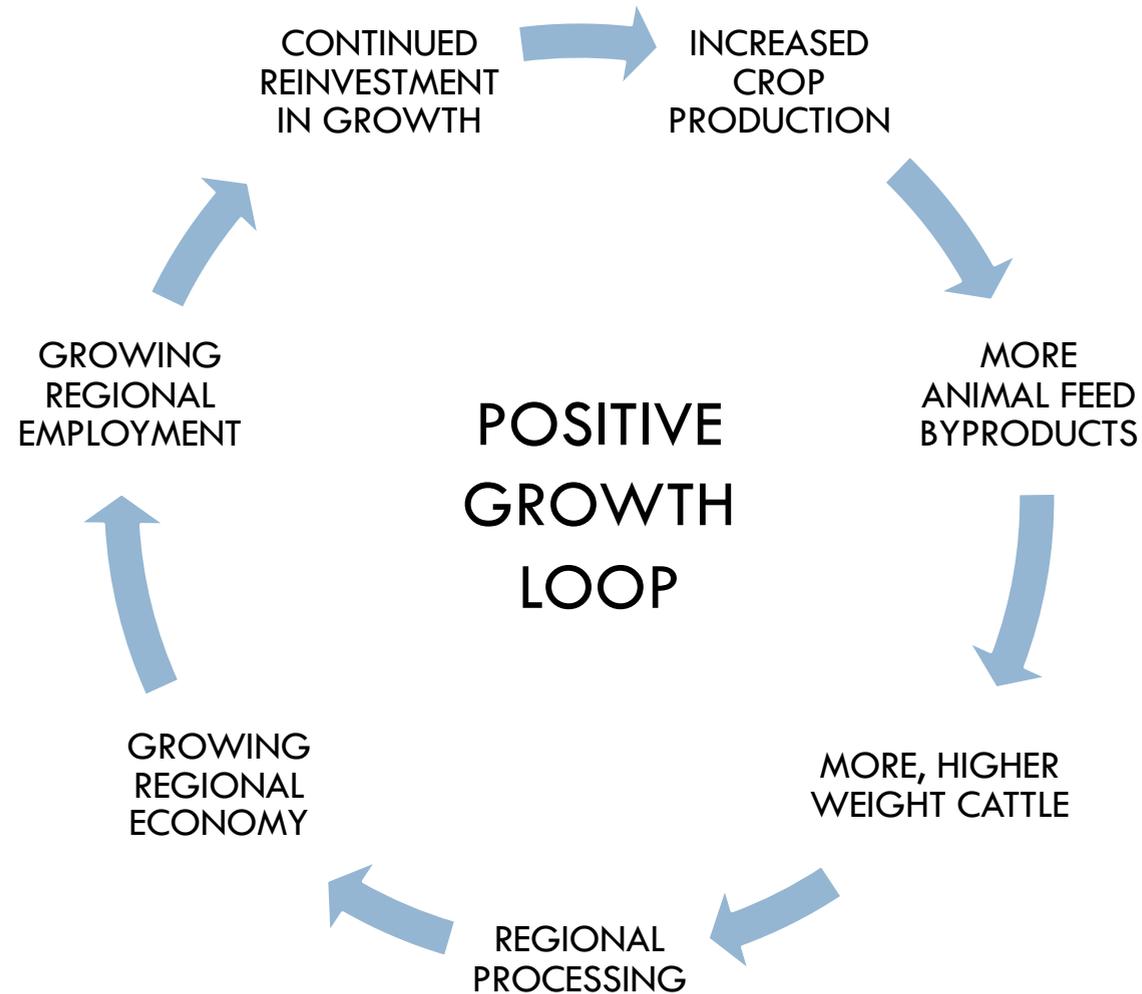
- Options for sale, long term lease, JV

- Grazing Homestead Perpetual Lease (GHPL) in conversion to Freehold on (Lot 1 on CE3, Lot2 on MF18)

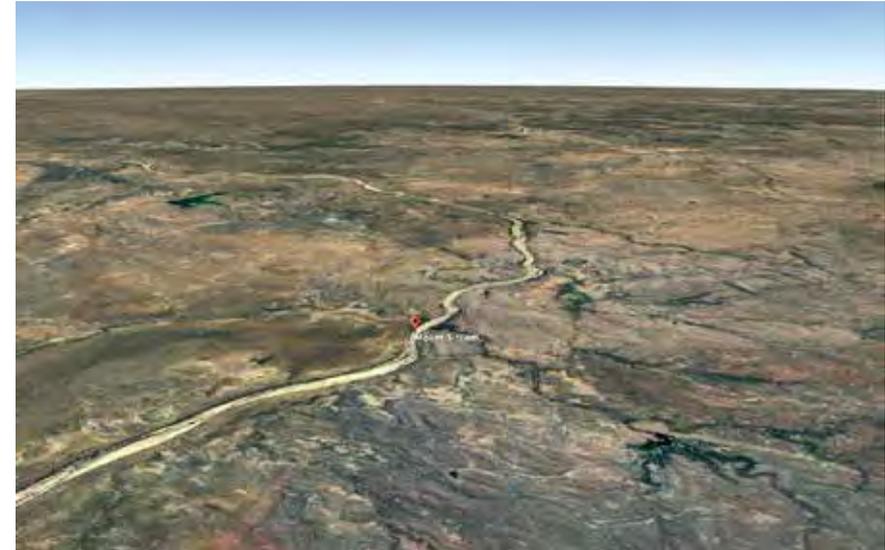
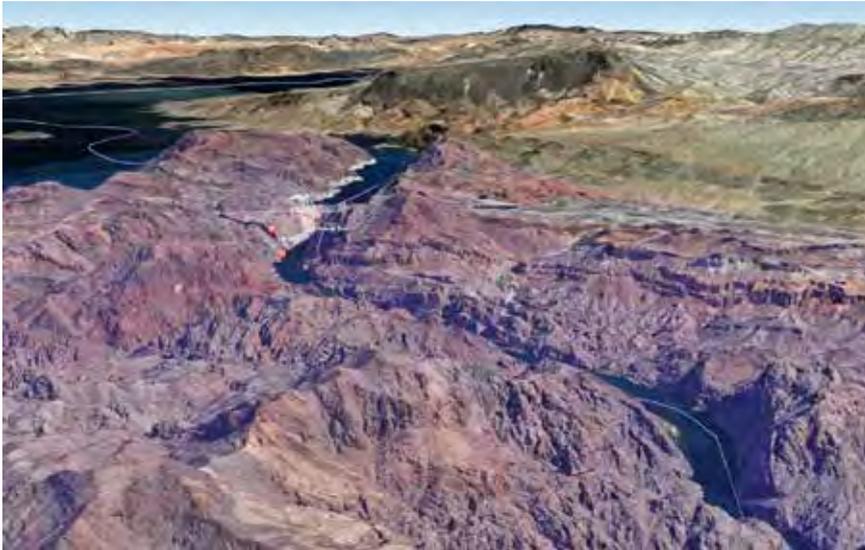
EXAMPLE CROPPING OPPORTUNITIES*

CROP	YIELD (T/HA)	PRICE (A\$/tonne); 2013	WATER USE (ML/HA)
Sorghum (grain)	7-9	220-280/t	3.5
Cotton	7-9 bales	440/bale	8-10
Mung bean	2.5-3	900/t	6-8
Sorghum (fodder)	n/a	n/a	2-4
Chickpea	2.5-3	450/t	3

Increased irrigation enables strong synergies and creates a positive growth loop for the region



*Economically, large scale irrigation projects are challenged by the region being flat, with high evaporation and high costs**



HOOVER DAM
(1936)

39,200,000 megalitres
221m high / 379m length

US\$49m (US\$510m/A\$720m today)

GILBERT RIVER IRRIGATION PROJECT
(proposed)

200,000 megalitres

A\$220-360m (capital cost estimates)

~200x

~3x

* and have a large surface area for evaporation (relative to total volume). Source: various published articles; Coriolis analysis

Research highlights seven products as opportunities for North West Queensland in Horizon 2

HORIZON 2 – CAN BE IRRIGATED OR GROWN DRYLAND



HORIZON 2 – ANIMALS



HORIZON 2 – WATER INTENSIVE CROPS



Horizon 3 for North West Queensland agriculture is new products not traditionally grown in the region and outside “comfort zone”

THREE HORIZONS OF GROWTH FRAMEWORK: NORTH WEST QUEENSLAND

Model; 2017

HORIZON 1

Grow & build cattle



HORIZON 2

Support emerging projects & products



HORIZON 3

Discover & develop new options

+\$400m
2,000+ jobs

Six new Horizon 3 products with high potential for growth were identified for North West Queensland

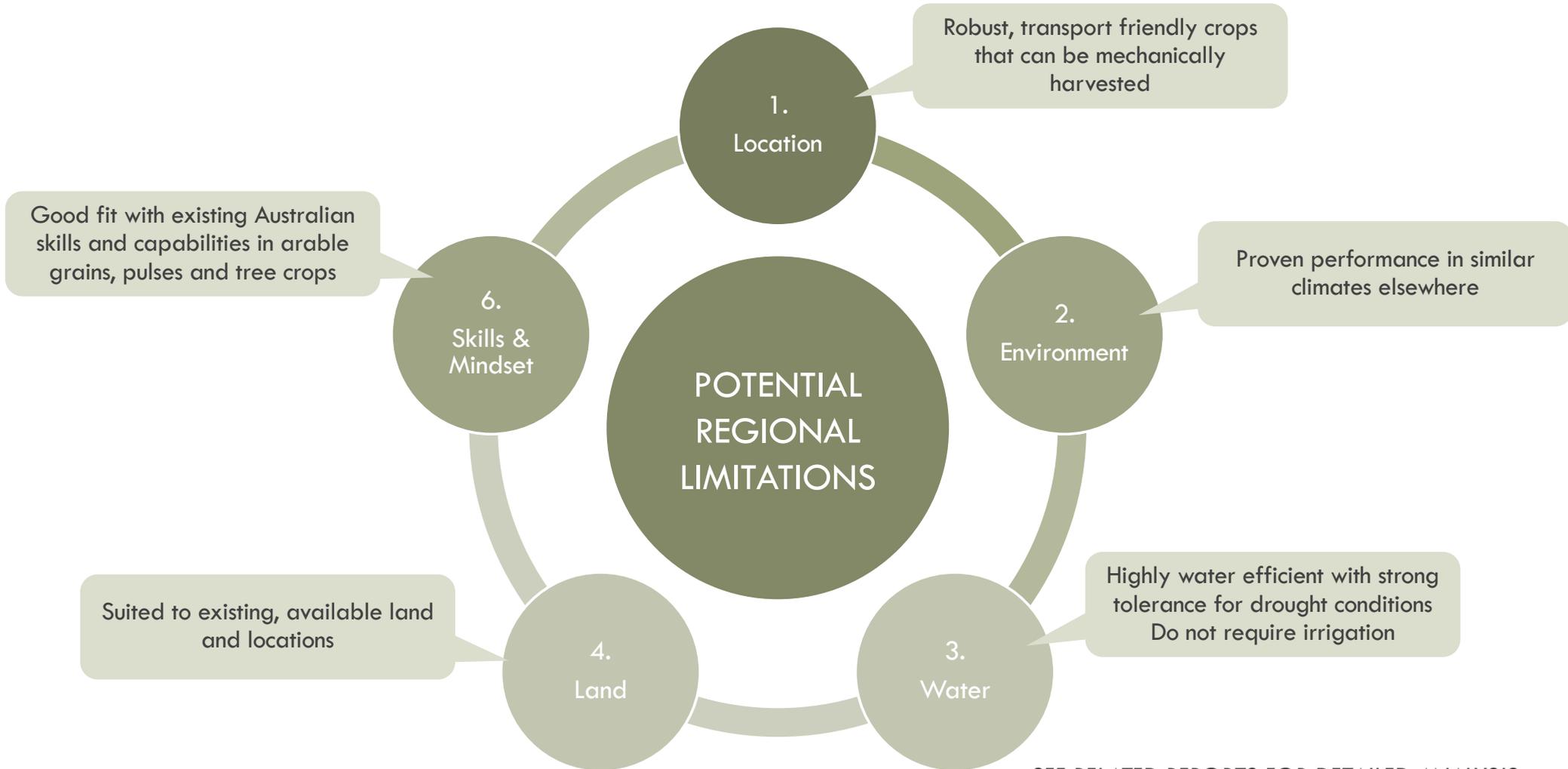
IDENTIFIED POTENTIALLY TRANSFORMATIVE HORIZON 3 OPPORTUNITIES



SEE RELATED REPORTS FOR DETAILED ANALYSIS



The identified Horizon 3 crops can progress rapidly as they overcome regional limitations



SEE RELATED REPORTS FOR DETAILED ANALYSIS

Progress is not linear; the three horizons support each other and build on growth



AGENDA

WHY ARE WE HERE?

WHAT PROBLEM ARE WE TRYING TO SOLVE? WHY AGRICULTURE?

WHAT DO WE HAVE TO WORK WITH?

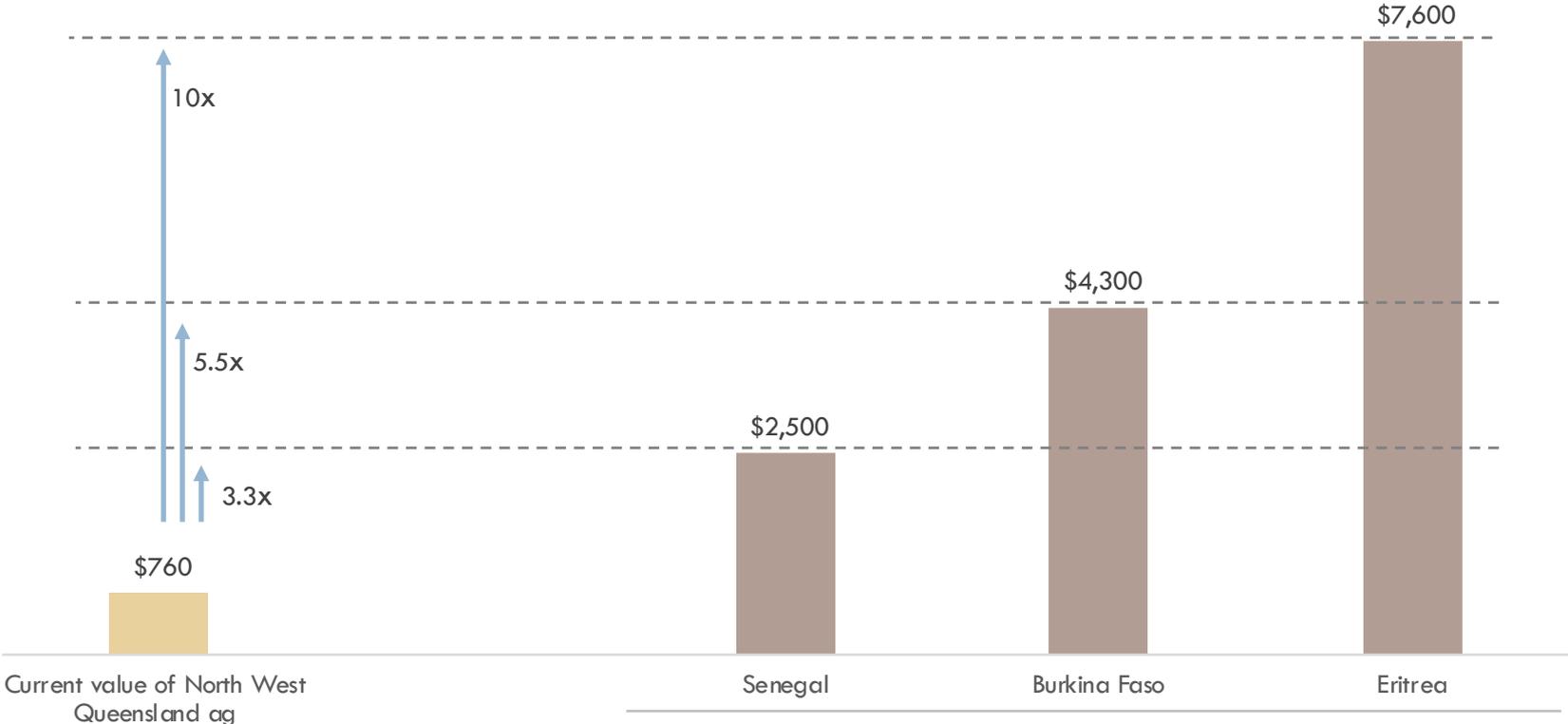
HOW DO WE FIND NEW IDEAS BEYOND CATTLE?

WHAT IS THE SOLUTION?

HOW DO WE IMPLEMENT?

North West Queensland should aspire to match the performance of African climatic peers

NORTH WEST QUEENSLAND POTENTIAL VALUE OF AGRICULTURAL PRODUCTION A\$; m; nominal 2017



How much would we produce if we could match the performance of this country? (A\$; m)

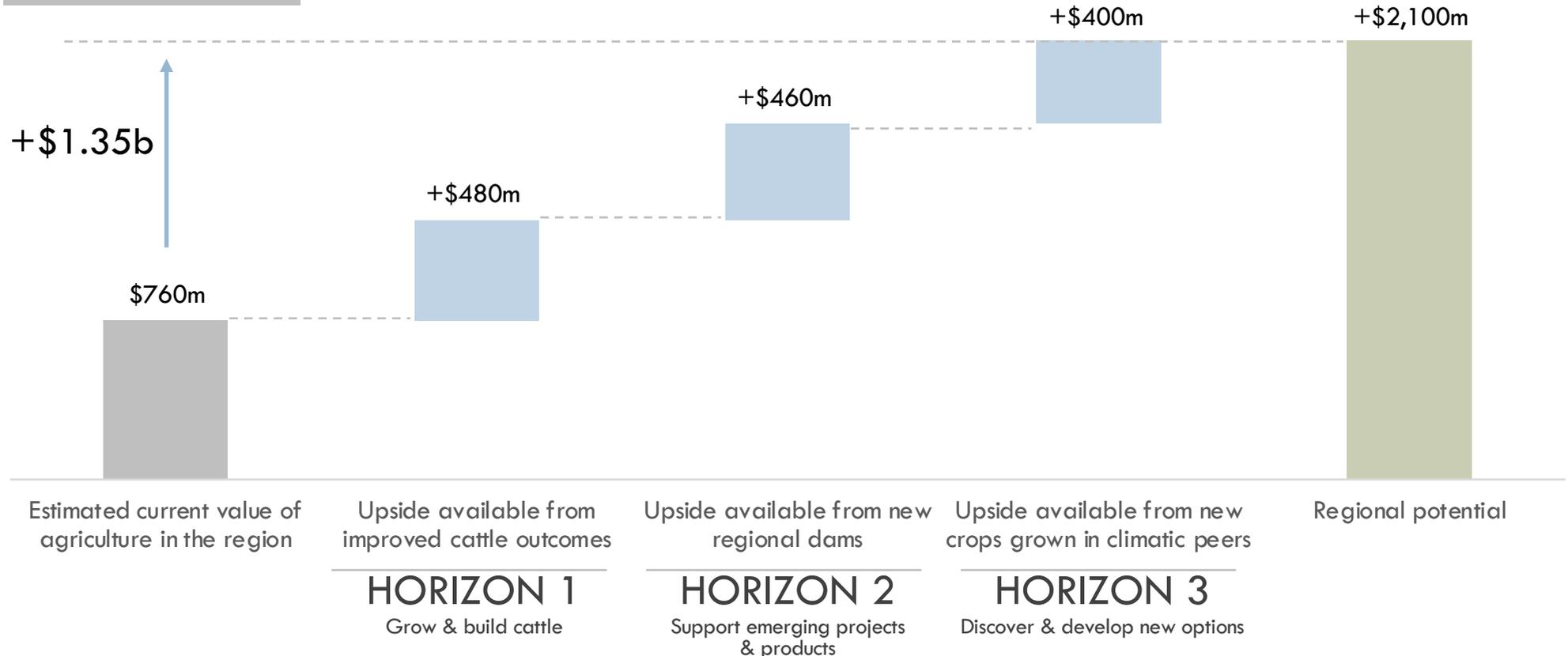
Source: UN FAOSTAT; ABS; Coriolis estimates and analysis

With investment, North West Queensland can create \$1.35b in new agricultural growth across these three horizons

GROWTH BRIDGE: POTENTIAL UPSIDE FROM THREE GROWTH HORIZONS

A\$; m; nominal 2017

INDICATIVE/DIRECTIONAL

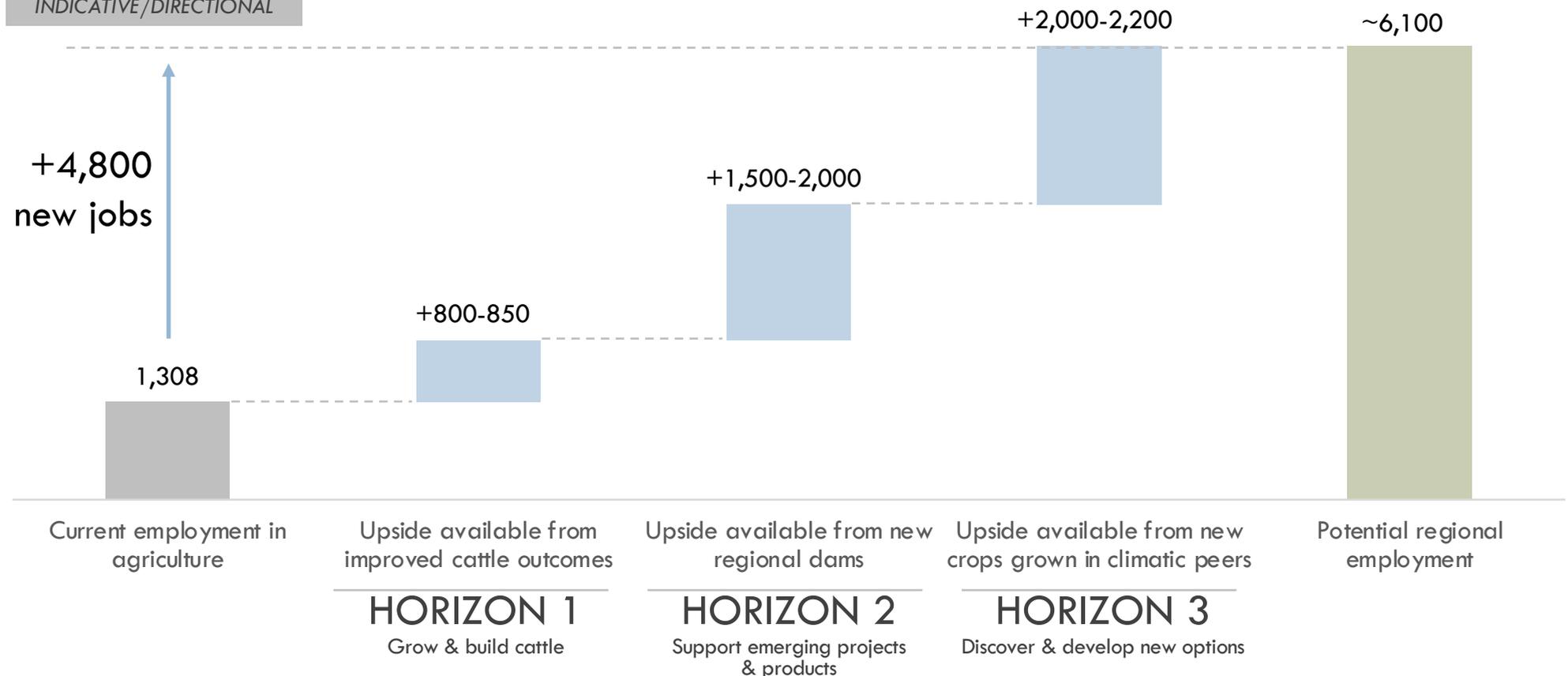


Creating this level of agricultural growth in North West Queensland could create up to 4,800 new jobs

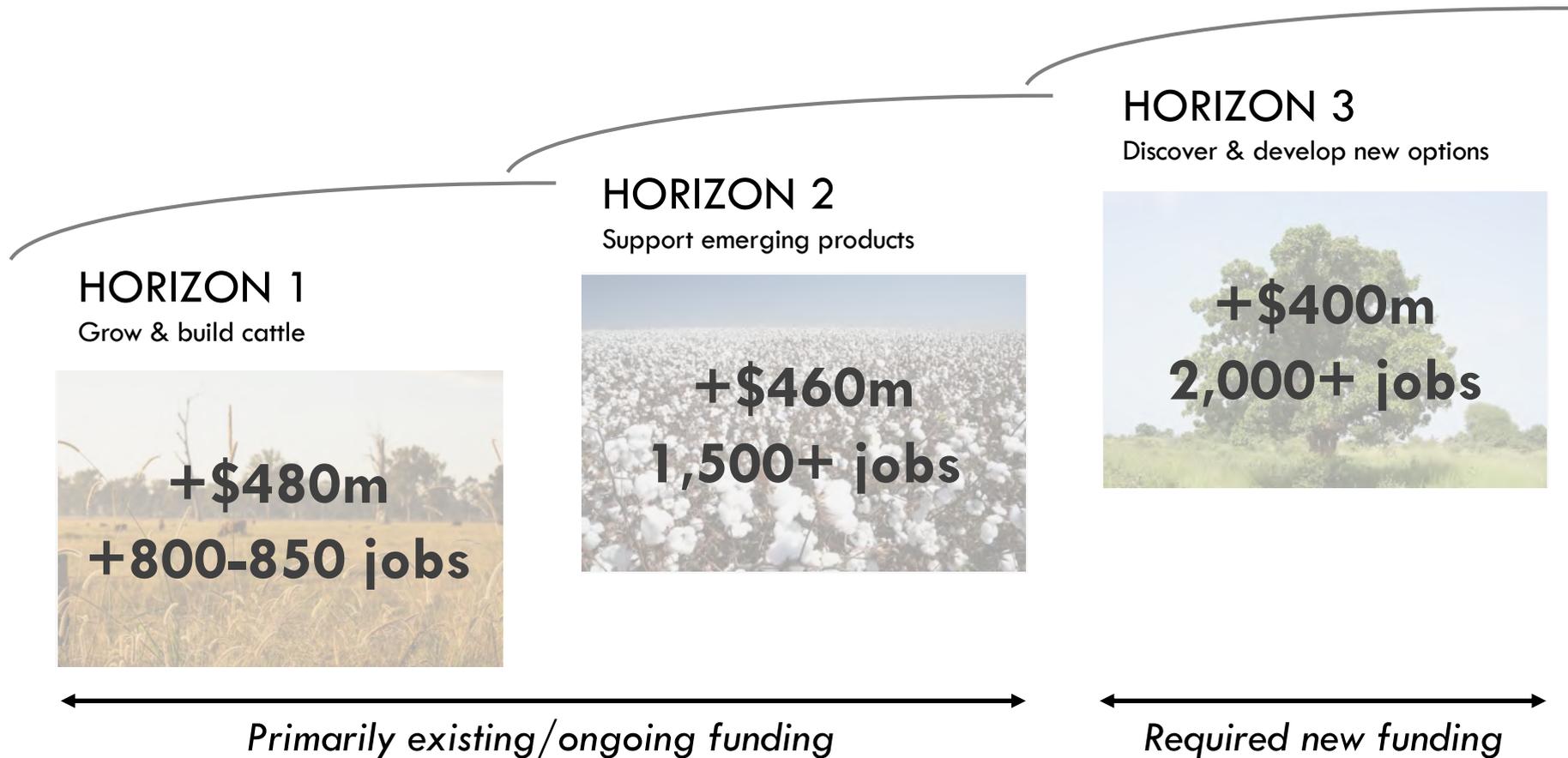
GROWTH BRIDGE: POTENTIAL UPSIDE FROM THREE GROWTH HORIZONS

A\$; m; nominal 2017

INDICATIVE/DIRECTIONAL



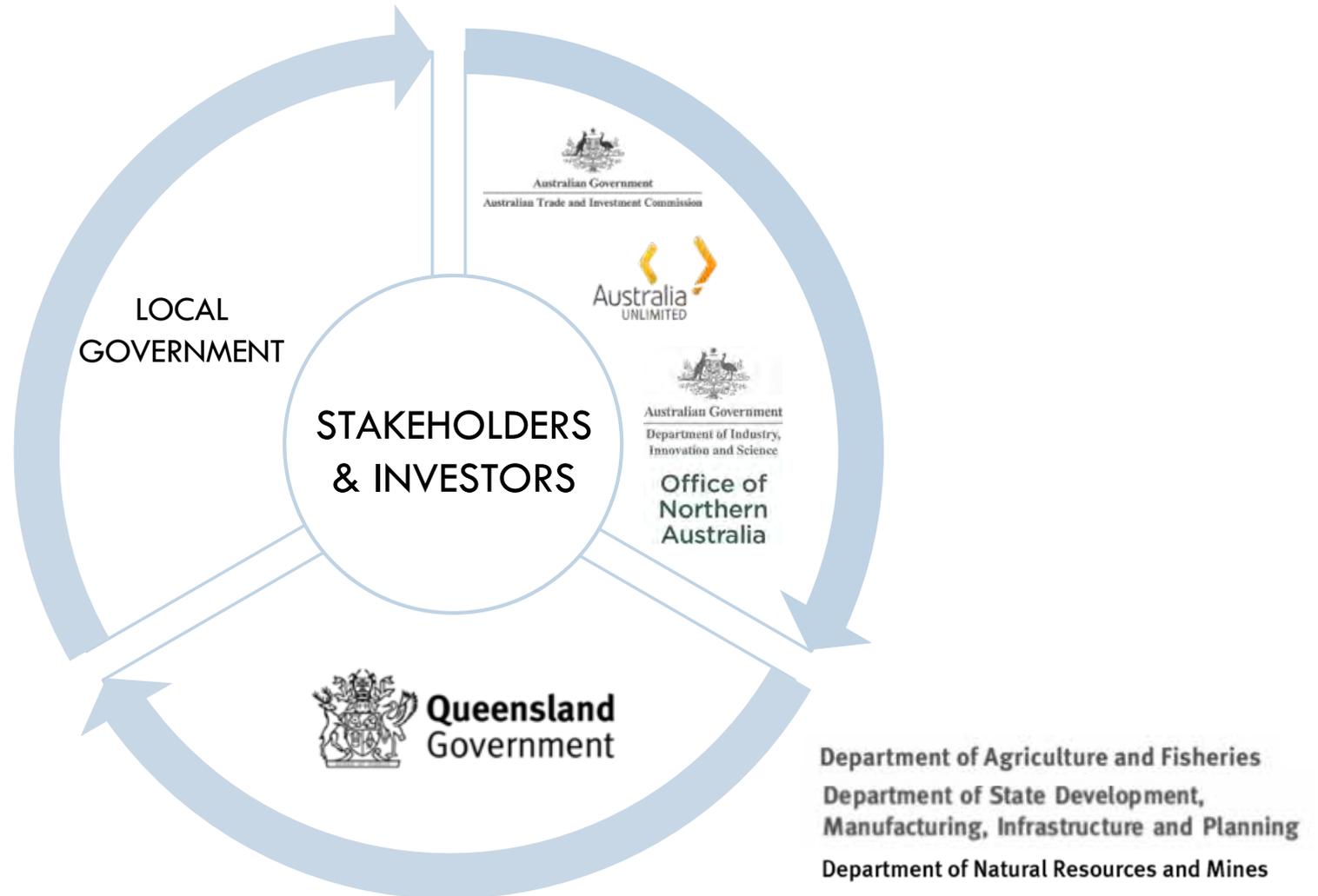
Significant investment of time and resources is required to realise the opportunity in North West Queensland



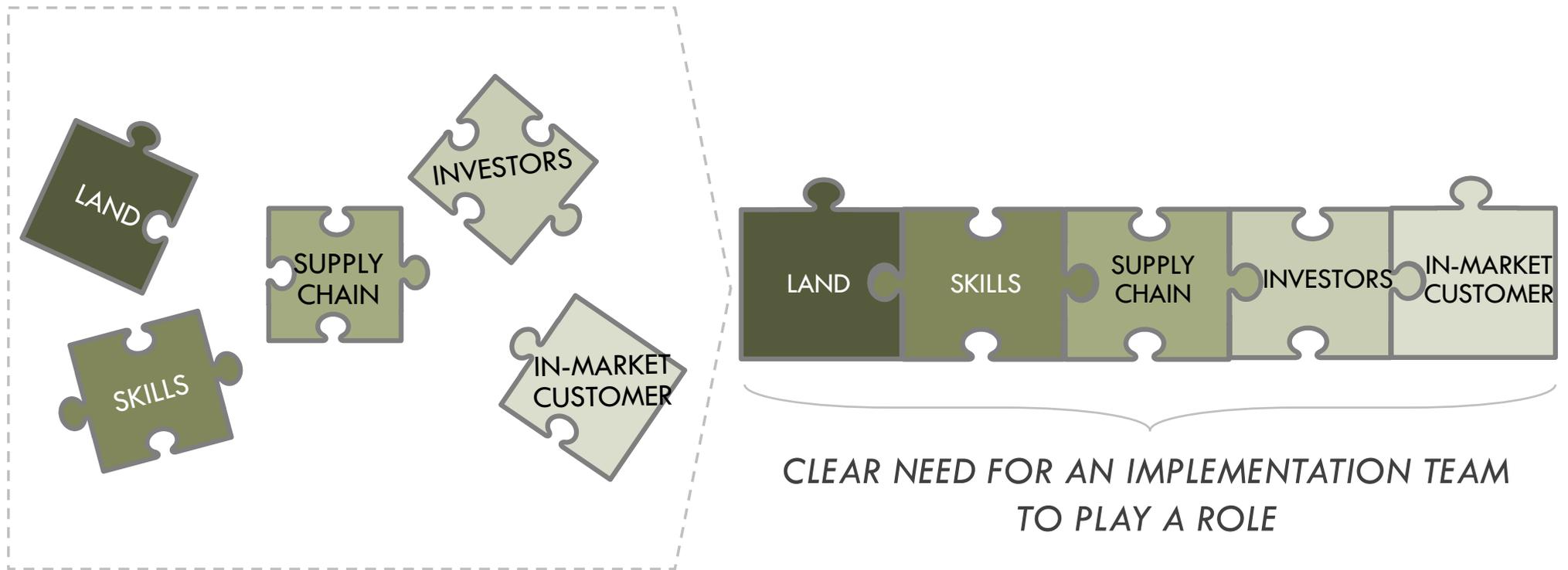
Stakeholder, investors and all levels of government need to work collaboratively to realise the opportunity and create change

KEY STAKEHOLDERS

Model; 2018

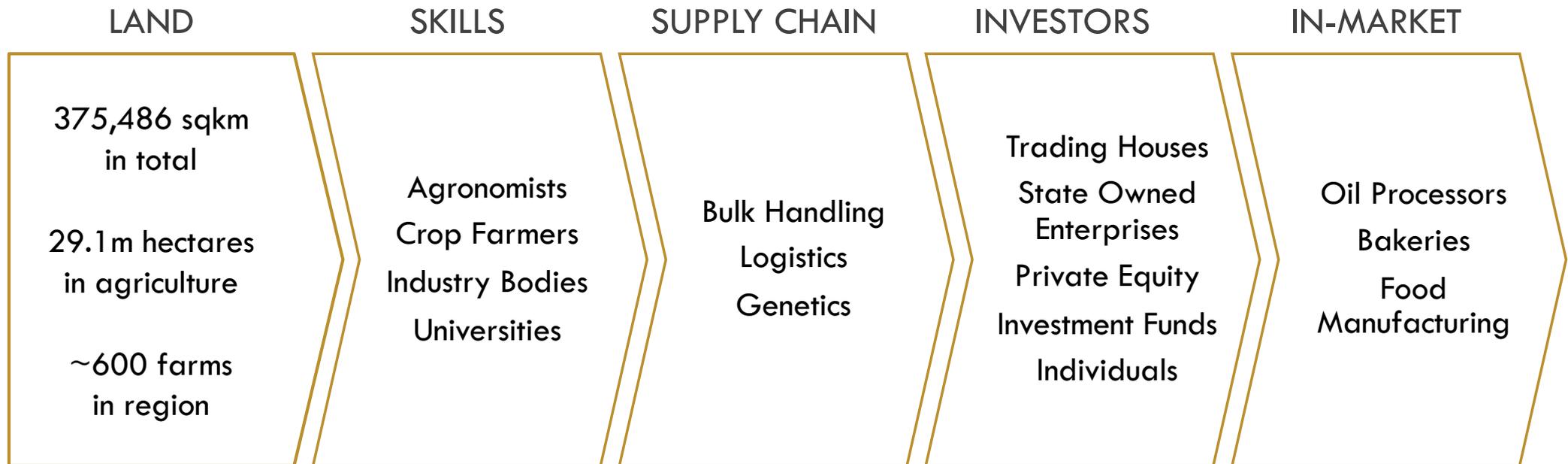


A focused implementation team is needed to bring together the critical “pieces of the puzzle” required to deliver on the plan



As an example, realising the North West Queensland sesame opportunity requires multiple pieces to come together

EXAMPLE: “PIECES OF THE PUZZLE” REQUIRED TO REALISE THE SESAME OPPORTUNITY
Model; 2018



The team needs to deliver on (1) development coordination, (2) opportunity development and (3) opportunity promotion

SUPPORT DEVELOPMENT

ATTRACT INVESTMENT



1. DEVELOPMENT COORDINATION



2. OPPORTUNITY DEVELOPMENT



3. OPPORTUNITY PROMOTION

- Opportunity Prioritisation
- Project Management
- Resource Alignment

- Opportunity Work-up
- Required R&D
- Location Identification
- Supply Chain Optimisation
- Identifying Gaps, etc.

- Investment Identification
- Introduce Partners
- Develop & Deliver Messaging
- Investment Promotion

This focused team will require an investment by government of between \$8m to \$10m over four years to deliver growth

GOVERNMENT INVESTMENT IS REQUIRED IN TEAM DIRECTLY TO FACILITATE GROWTH

Estimate; Year 1-4

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	4Y TOTAL
1. Development Coordination	\$0.5-0.7m	\$0.5-0.7m	\$0.4-0.5m	\$0.4-0.5m	\$1.8-2.3m
2. Opportunity Development	\$1.1-1.4m	\$0.8-1m	\$0.7-0.9m	\$0.7-0.9m	\$3.3-4.3m
3. Opportunity Promotion	\$0.4-0.5m	\$1.2-1.6m	\$0.6-0.8m	\$0.6-0.8m	\$2.8-3.6m
TOTAL	\$2.0-2.6m	\$2.5-3.3m	\$1.7-2.2m	\$1.7-2.2m	\$7.9-10.3m

DIRECT TEAM IMPLEMENTATION COSTS
 DOES NOT INCLUDE ALL WIDER STRATEGIC ACTIVITIES
 (See appendix 1 for additional details of those)

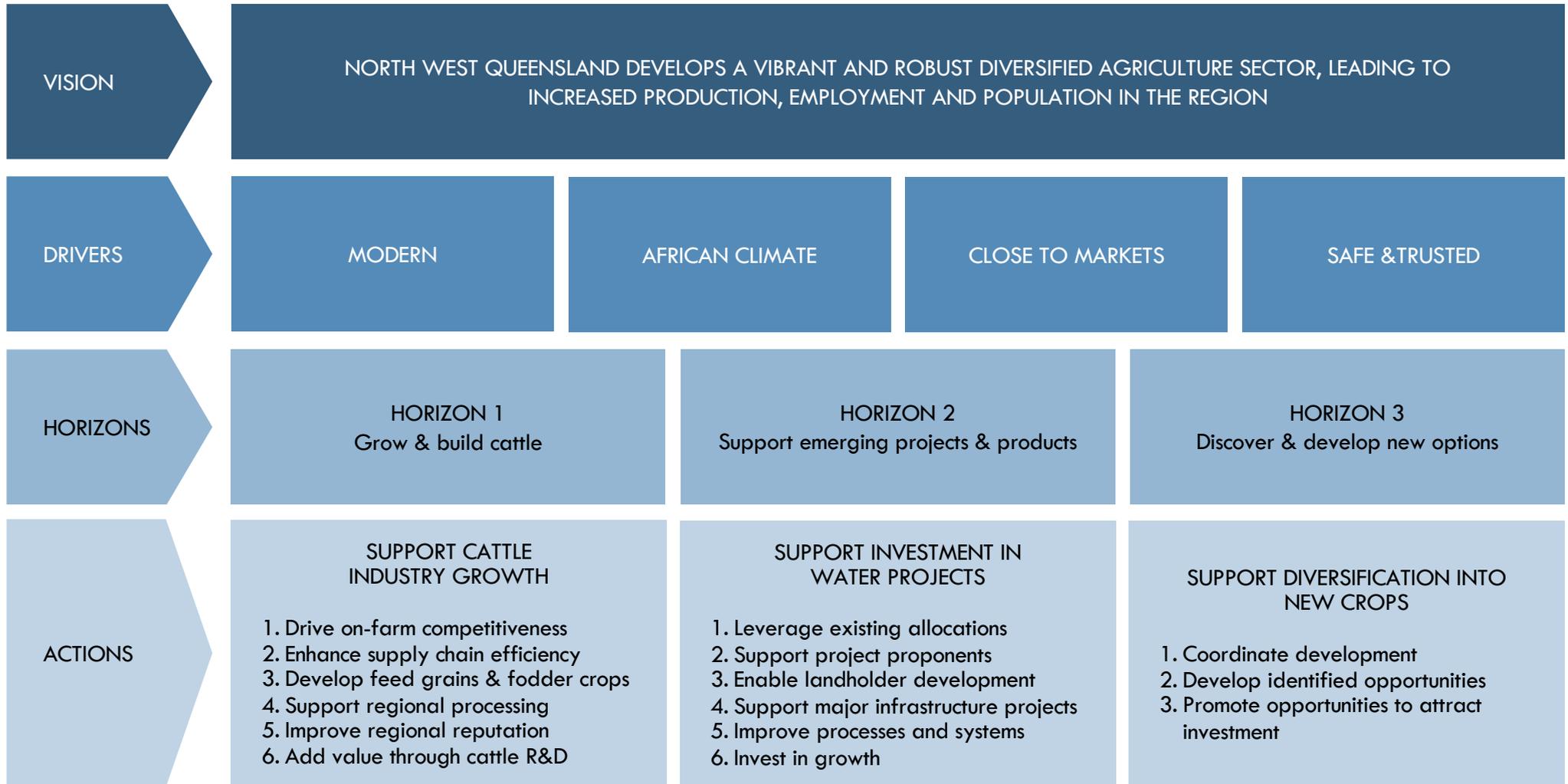
* Assumes some salaries are paid by parent organisations contributing to a “virtual team”; Source: Coriolis analysis

This focused team needs to primarily work on delivering the three transformative Horizon 3 opportunities documented elsewhere



*These opportunities will not happen with “business as usual”
Action is required to catalyse investment and transformation*

North West Queensland has a clear, proposed agricultural diversification action plan to realise the opportunity



Five project reports develop the various pieces of the plan

