

# Data Culture

Knime Data Talks

17 November 2021



# Company Overview



Founded in 2001 by Murray Leahy, MLG is a significant provider of integrated production support services to the Australian mining and civil infrastructure industries.

## Bulk Haulage

## Site Services and Civil Works

## Crushing and Screening

## Construction Materials and Quarries

## Export Logistics



- Bulk material transfer
- General site haulage
- Bulk ore haulage services (on road and off road)
- Logistics



- Crusher feed
- Road maintenance
- Rehabilitation work
- Vehicle maintenance
- Machine and labour hire



- Contract crushing - mobile plant
- Build Owned and Operated- fixed plant
- Concrete aggregate production
- Road base production
- General screening



- Strategic acquisition and positioning of quarry operations, throughout Western Australia near key regional centres
- Supply of bulk materials products for mining and civil projects
  - Sand
  - Aggregate
  - Cement
  - Lime



- Bulk material import/export
- Container handling
- Esperance Port facility

# Where We Operate

MLG delivers these services throughout regional Western Australia & the Northern Territory.

## 2021 by the numbers



People

640+



Sites

30+



Turnover

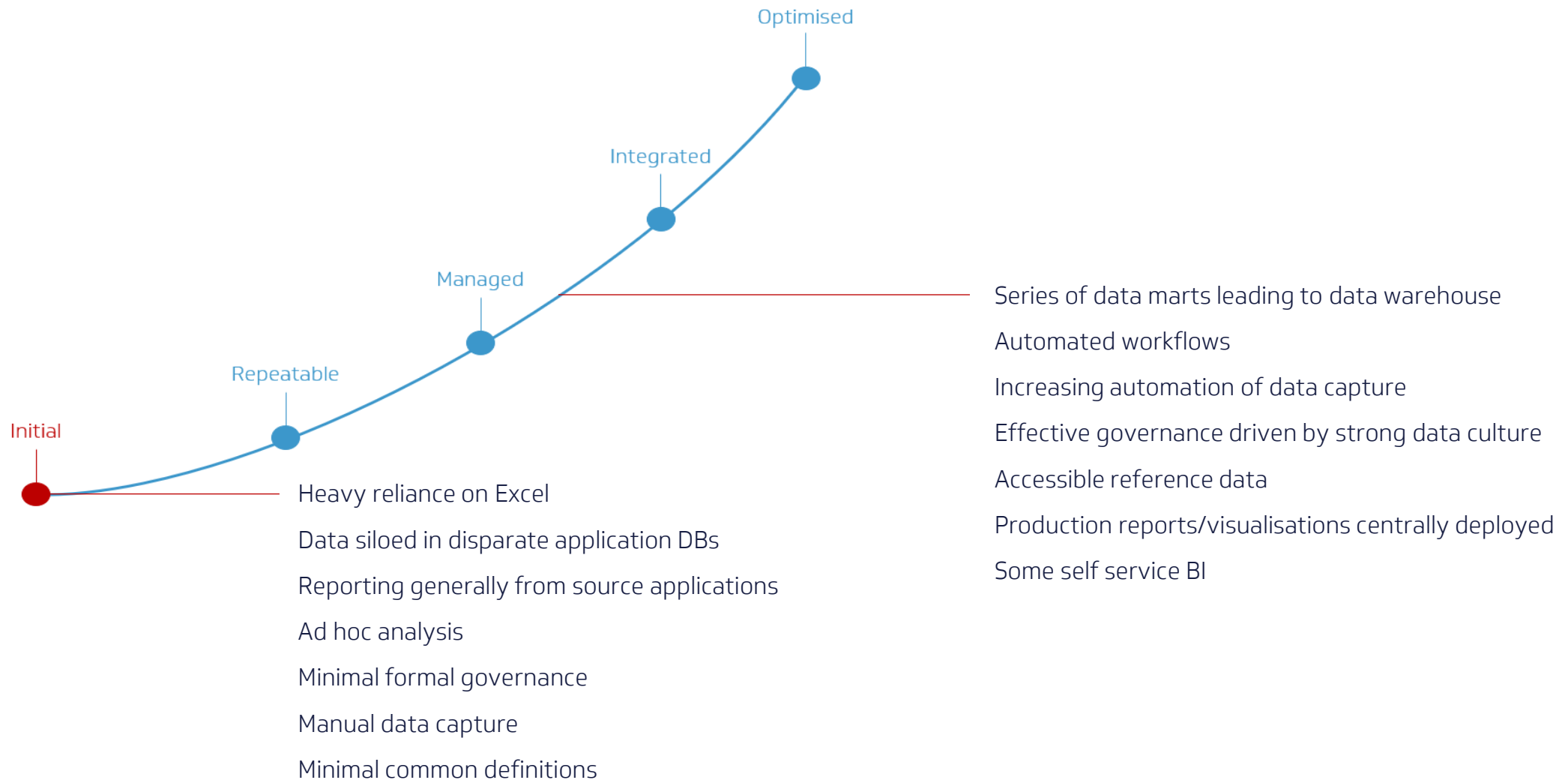
\$257m

FY21 Statutory Financials



# Where are we on the curve and where do we want to be?

Short to medium term focus on uniform, trusted data



# What influences our Data Culture and ability to mature?



Challenging history, changing with strong leadership and technology enablers

## Constraining Influences

Work environment

Remote

Distributed

Legacy of tech barriers embedded in culture

Computer literacy of workforce

Low margin industry stifles investment

Line of business application reporting often sub standard

Sites run independently

## Enabling Influences

Engaged senior leadership

Strong culture of innovation & improvement

Emerging & maturing technologies

4G, 5G, Starlink Satellite

Cloud infrastructure

Software as a Service

Internet of Things

# What role does our Data Culture play?



Strong culture is necessary where front line staff control key data capture points

	Data Elements	Responsible Person(s)
Operational Data	Product types & quantities Staff & asset shift allocations	Machine Operators Site Managers Site Administrators
Asset Data	Location Engine kilometres & hours Maintenance & inspection work Fuel usage	Site Managers Site & Maintenance Administrators Maintenance Technicians Machine Operators
Safety Data	Incidences Inspections Near misses	Site Managers & Supervisors All operational staff Safety Advisors
Purchasing & Inventory Data	Item master Purchase Order lines (items, quantities) Inventory locations & stock movements	Purchasing Officers Maintenance Technicians Site Managers & Supervisors Site Administrators

## Generating awareness and creating desire within workgroups



### Direct incentives

Gift vouchers, team lunches for DQ performance



### Indirect incentives

Ensure timeliness & accuracy of data used to calculate bonuses



### Demand for reporting/analytics products will drive data quality

Site and regional managers wanting visibility



### Senior leadership buy-in to push the messages

Aligning with organisational values, using data in discussions around business decisions



### Governance structure with clear accountabilities

Data stewards embedded in the relevant function (ops, HR, maintenance)

Providing the tools and knowledge to translate desire into behaviour



Put the infrastructure in place  
(Pretty obvious starting point)



Identify, train & coach power users  
Empower analysts distributed across the business (IT, finance, HR)



Agile development  
Rapid and regular deployment to realise value early & build momentum



Demonstrate what's possible  
“Hackathons” & POCs to help users understand what can be done



# How is Knime stitching this together?



Ease of use and data governance are key enablers

- Graphical Interface allowing developers to sit outside of IT
- Uniform integration layer for greater transparency & ease of support
- Rapid POC development
- Knime Portal to provide validated data entry until automated captured is deployed

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