

## Monash Industry Team Initiative (MITI) 2015-2016

### Site Review of Yield and Manufacturing Processes for Optimal Performance

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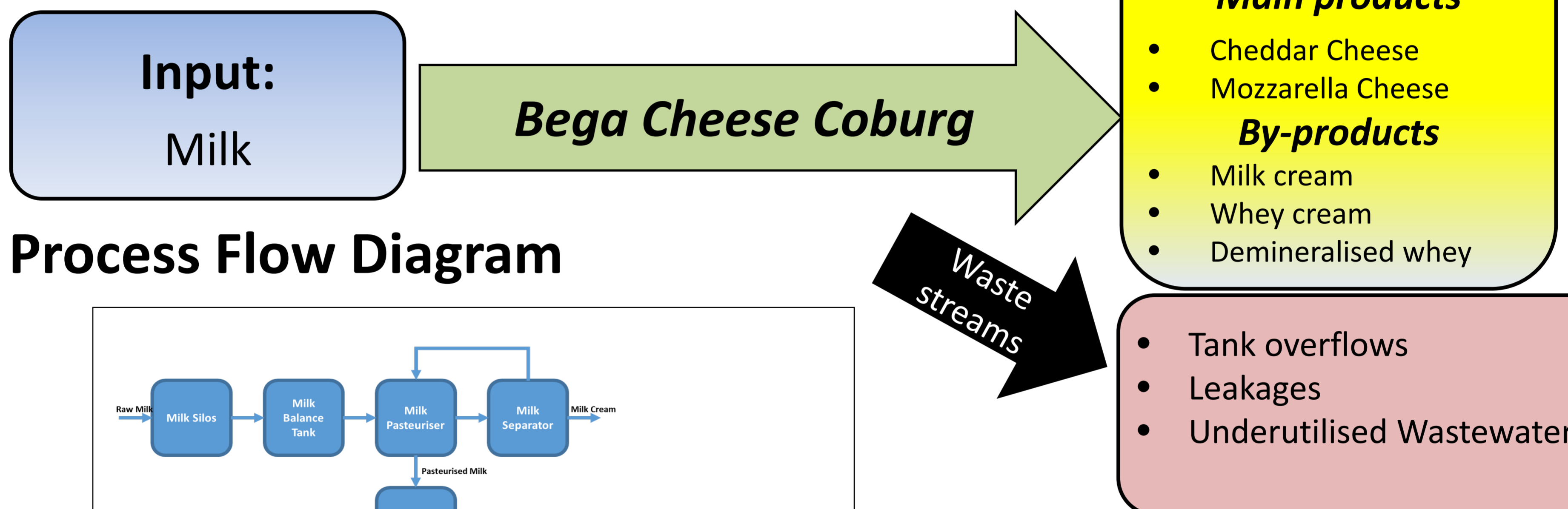
## Bega Cheese Limited

Bega Cheese Limited is currently one of the largest dairy companies in Australia spanning a number of sites including Bega, Coburg, Tatura and Strathmerton. A diverse range of products are produced annually such as cheeses, cream cheese, infant formula and processed cheese.

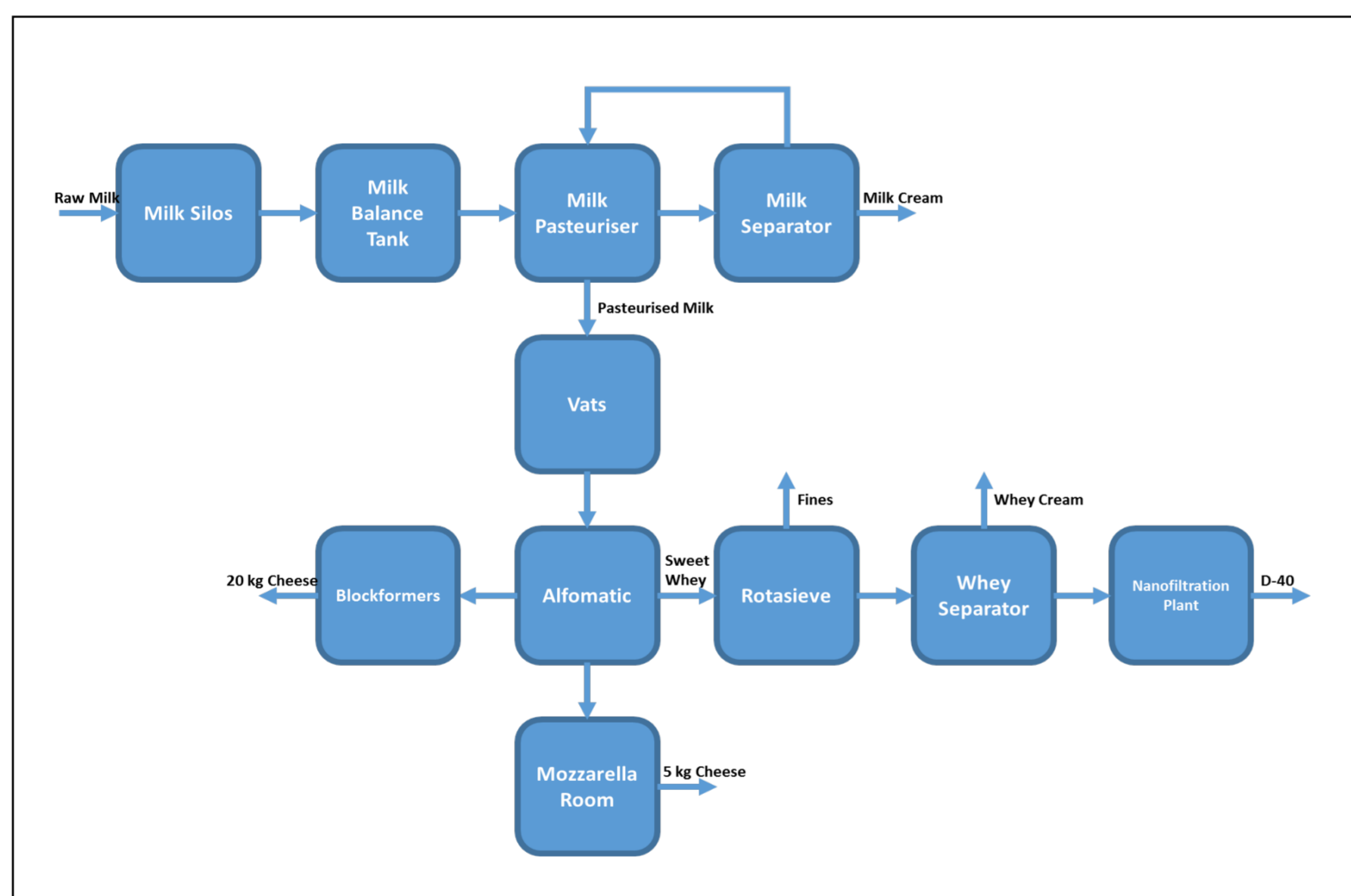
## Project Context and Objectives

To perform an **overall site review** of the Coburg cheese-making process and to find ways to **optimise** the cheese making process by performing mass balances and **identifying potential recoverable waste for its reduction**.

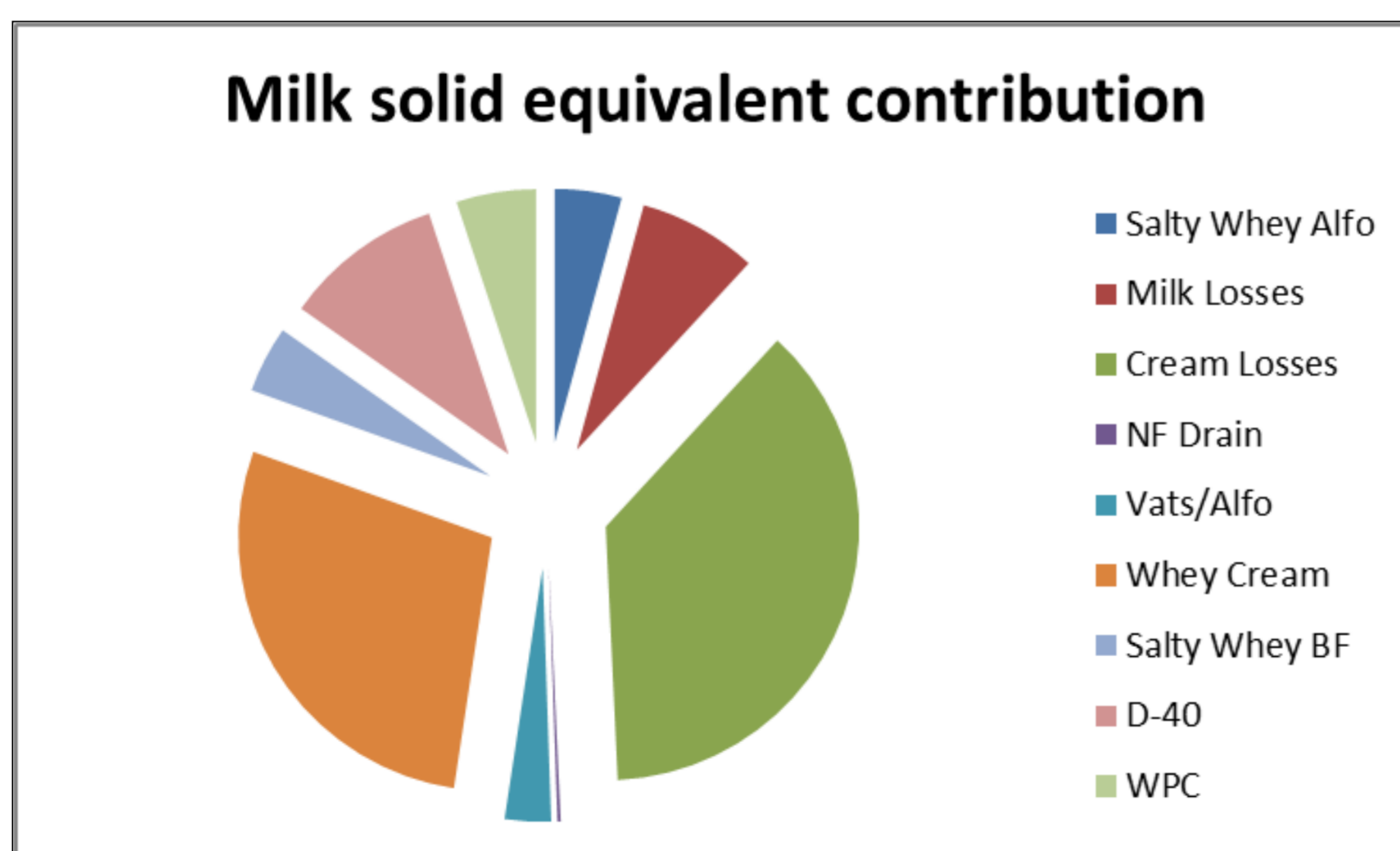
## General Flow Diagram



## Coburg Process Flow Diagram



## Plant Milk Solid Equiv. Contribution



## Experience

- Enjoyed being made welcome by Bega Cheese staff and operators
- Gained a detailed insight into the industrial cheese-making process and the dairy industry
- Identified our strengths and weaknesses when working in a team

## Project Outcomes

- Performed detailed and site wide total and compositional mass balance
- Identification and quantification of waste streams
- Suggested more effective milk input data integration methodologies
- Recommended methods for better long term plant operation

## Challenges

- Working within an open-ended scope
- Being critical and organised when dealing with sets of data
- Integrating team members' work in meeting deadlines