

# SIM University, SINGAPORE

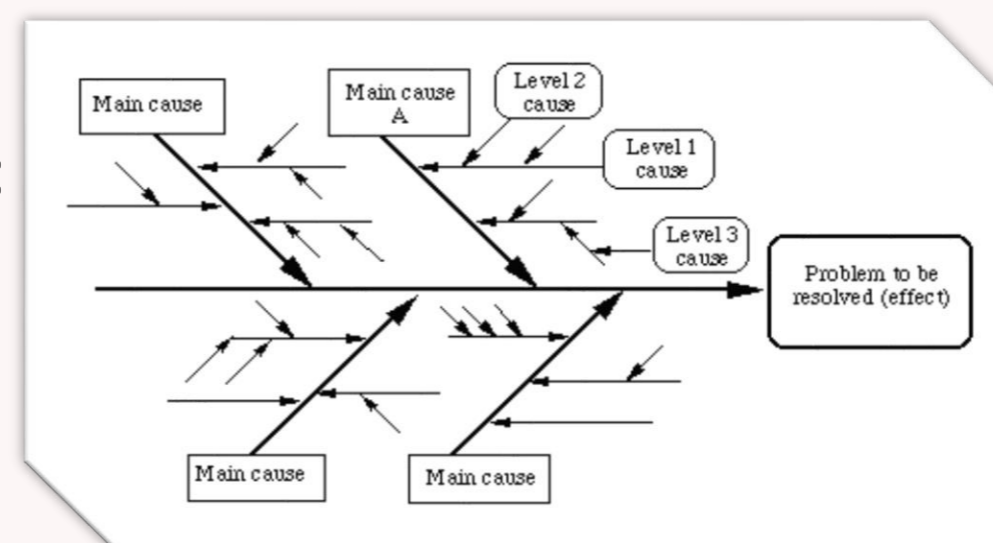
## Institutional Research and Analytics

As SIM University moves towards data-driven and evidence-based processes, the University is increasingly integrating data from learning analytics into institutional research. The University has in place broad defining strategies in institutional research and analytics to support planning and development.

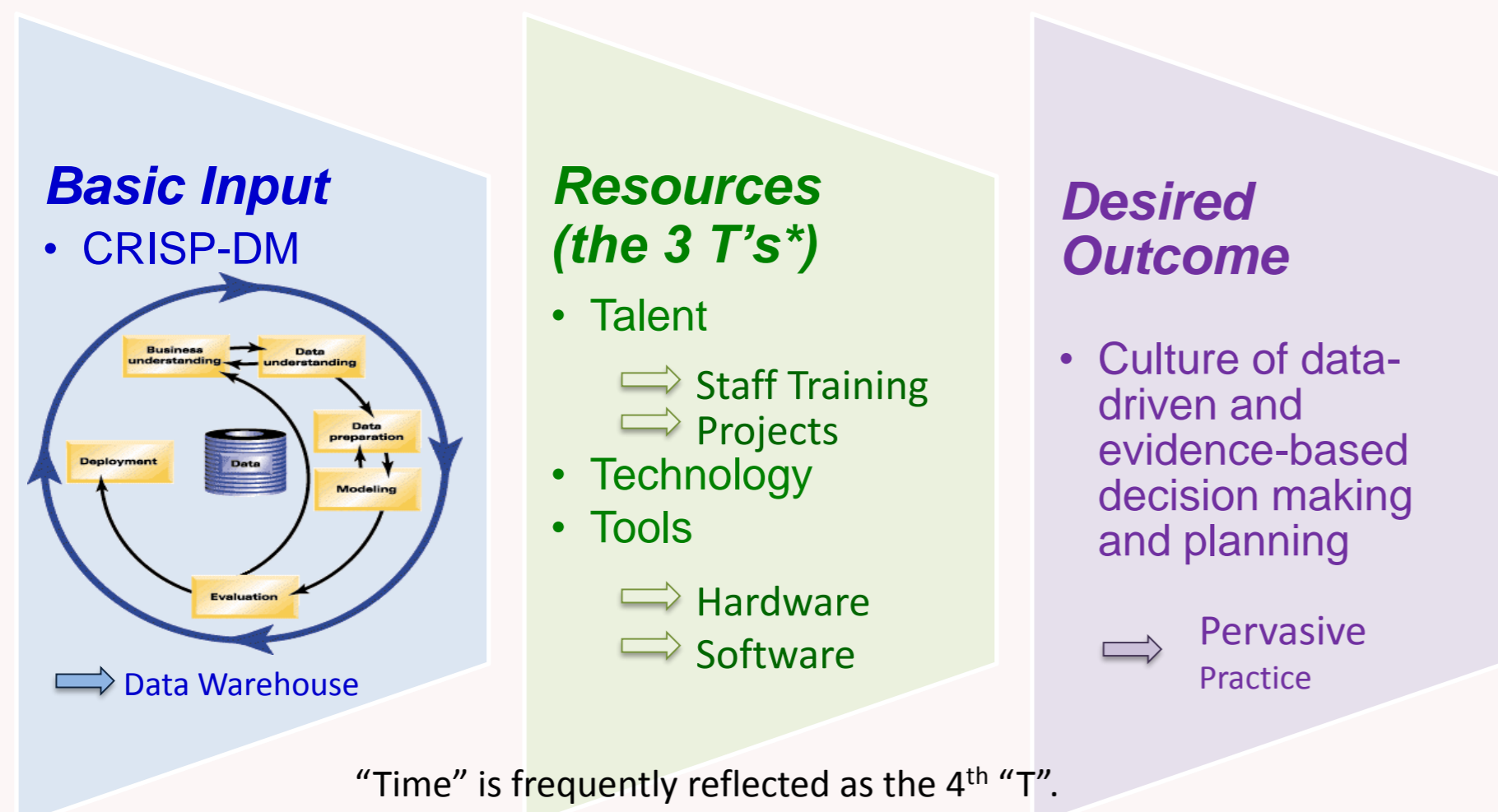
### Institutional Research and Analytics Unit (IRAU)

Set up on 1 August 2016, IRAU has the following terms of reference:

- digital warehousing of critical data;
- developing analytics capability & providing staff training;
- performing analytics projects; and
- developing a reporting platform to facilitate information sharing and decision making.



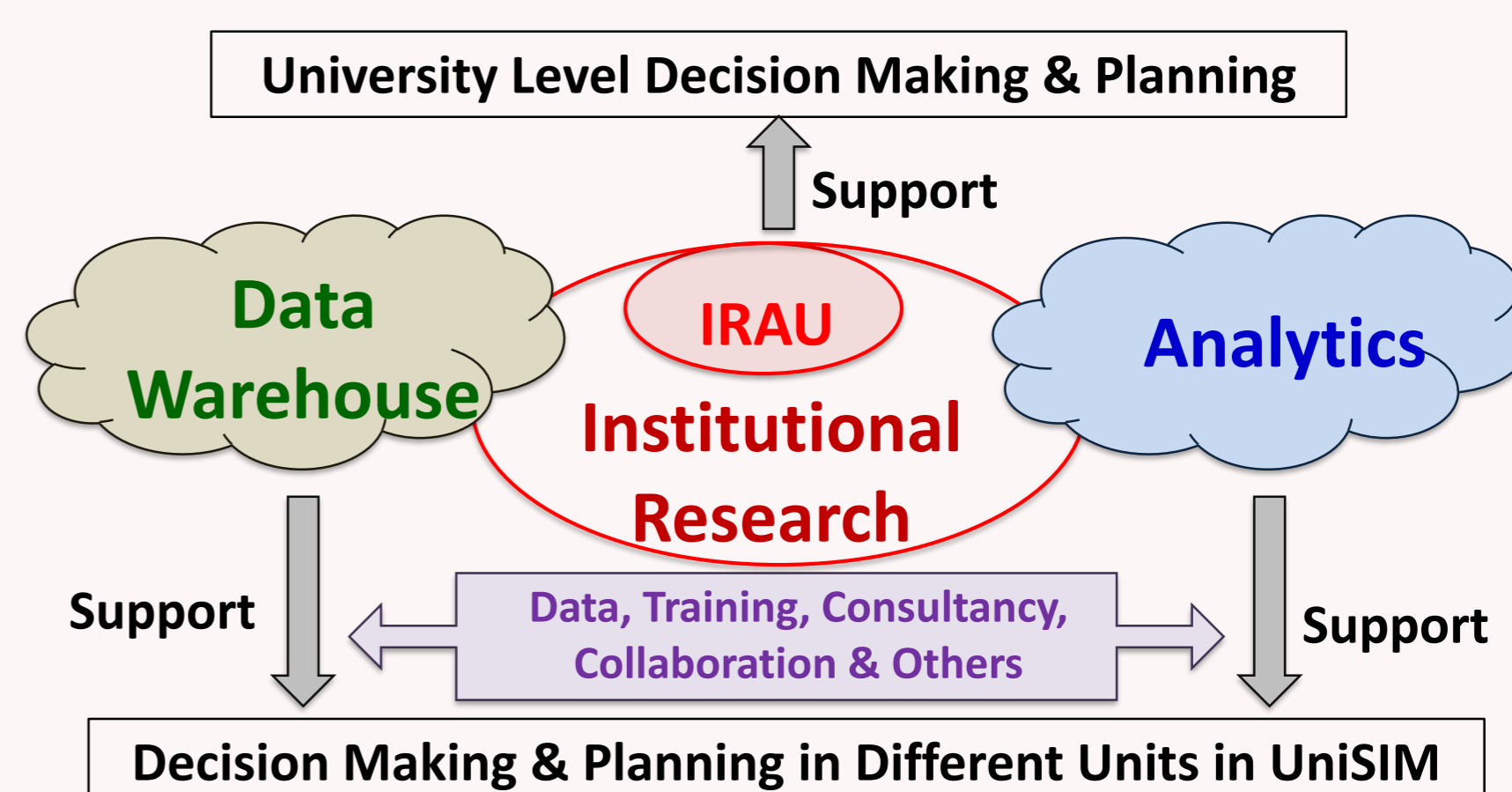
### IRAU: Plans for 2016 & 2017



"Time" is frequently reflected as the 4th "T".

The CRISP-DM framework is reproduced with permission from Sift Analytics Group Pte. Ltd.

### Vision of Institutional Research

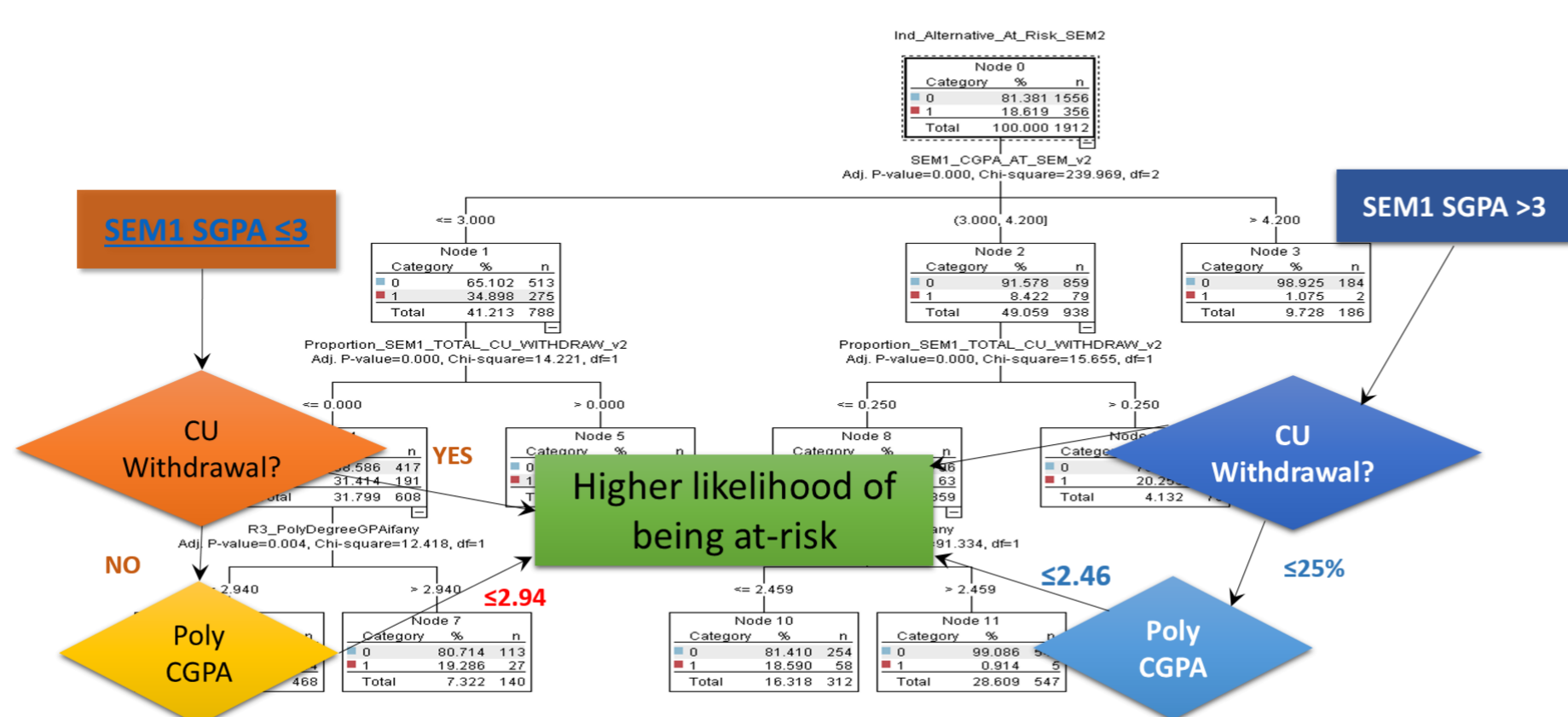


### Current Projects

#### Institutional Research (Inputs)

#### Mining UniSIM's Enrolment Data with Descriptive and Predictive Analysis

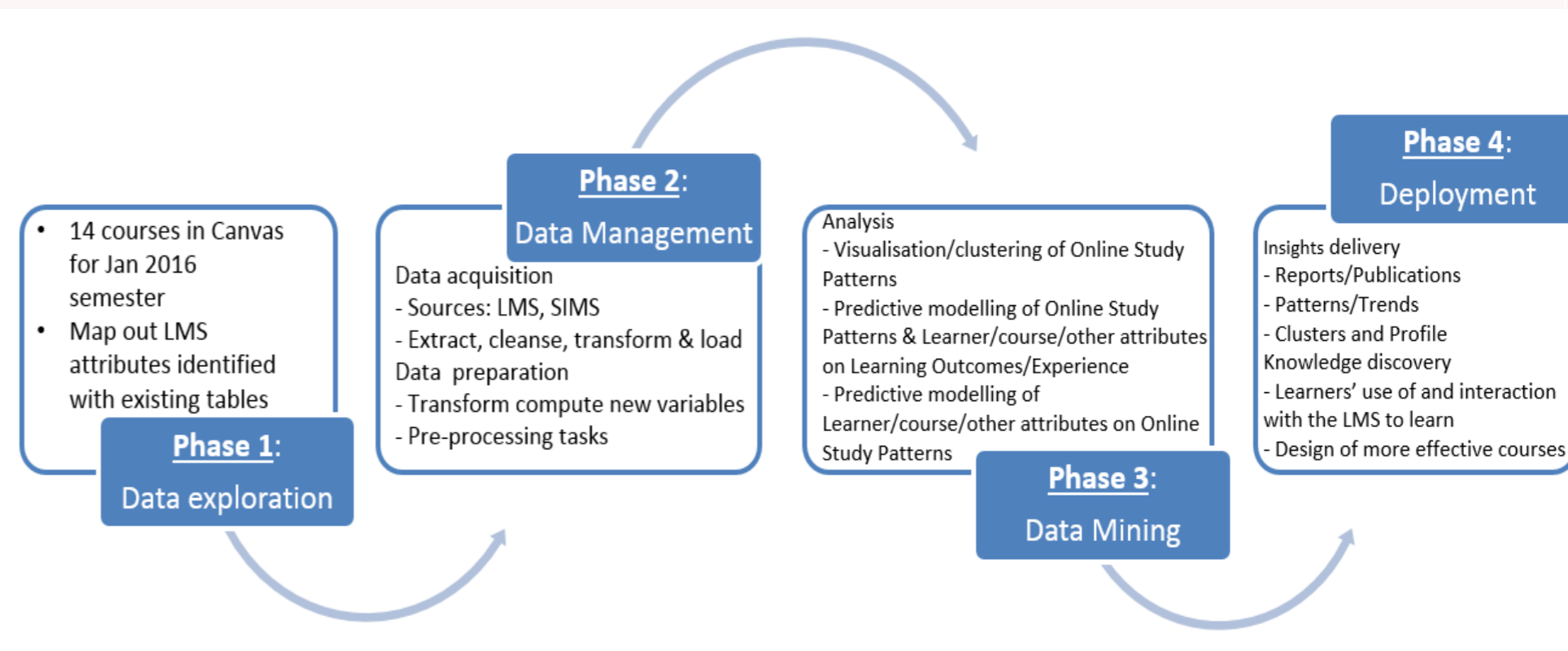
Decision Tree for SEM2 Modelling Predicting SEM2 At Risk Students



\*Note: N=41 outliers were removed from dataset.

#### Institutional Research (Throughputs)

#### Analysing learners' online study behaviour and its association with academic performance



### BSc Business Analytics Programme

- Since July 2007, this pioneering degree programme is the first in Singapore to prepare business analytics professionals in analytics techniques such as forecasting, data and text mining to extract useful insights from Big Data to make better business decisions.
- To-date, there are 244 graduates from this programme.
- Collaborative partnership with Sift Analytics Group (formerly SPSS Singapore) provides the platform for jointly organized events such as the annual Education Analytics Forum. This event showcases student projects with applications of analytics relevant to industry.



Mr. Roy Lim explaining his poster to an interested audience at the Education Analytics Forum 2015 held at Grand Park City Hall on 29 Jul 2015