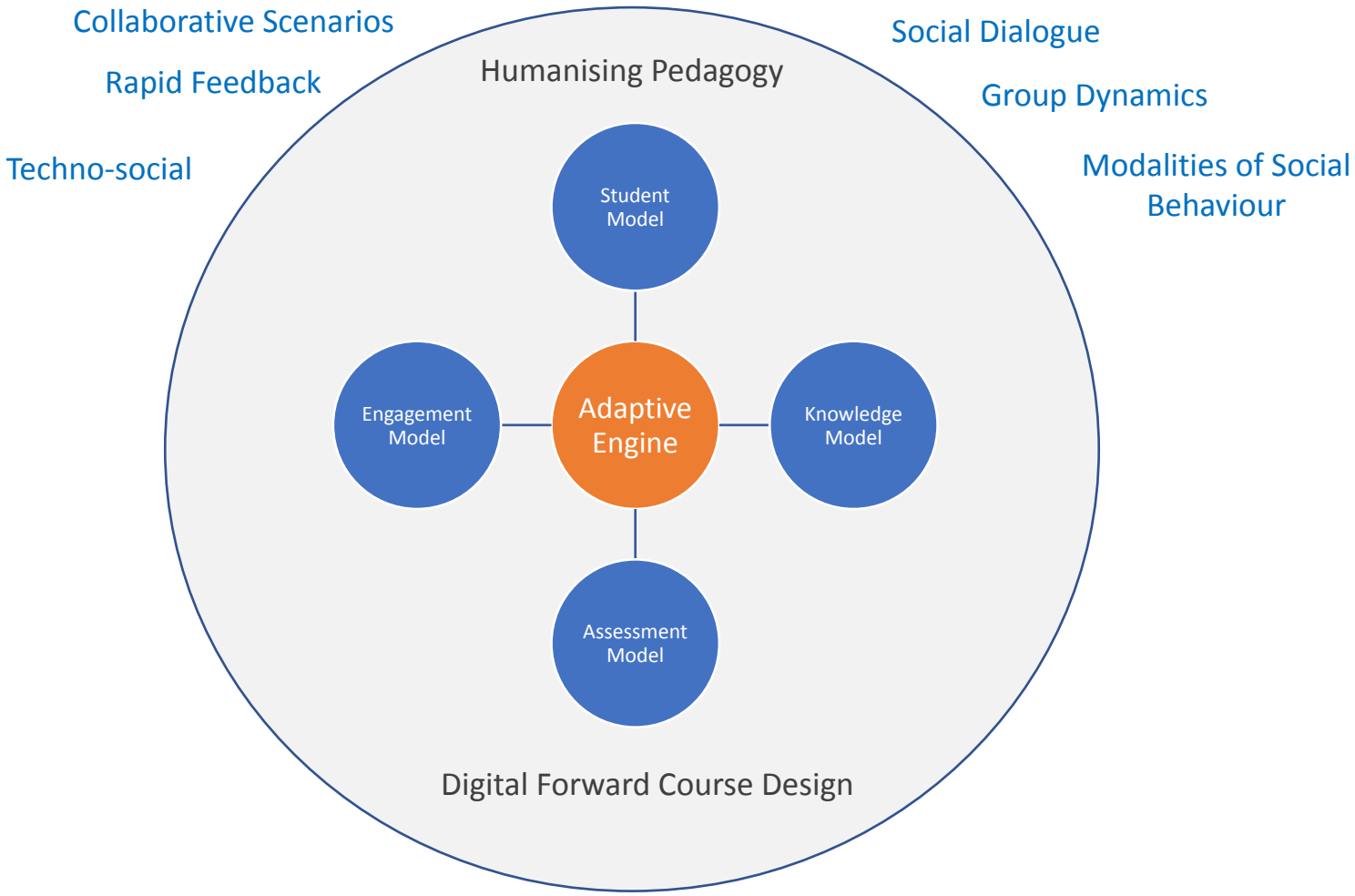
Beyond Specious Engagement in Online Learning Environments: Towards a Humanising Adaptive Engine



Humanising Adaptive Learning Engine (HALE)®

Humanising Pedagogical Approach

Conceptual, Semantic and Ontological Modelling

	Student	Knowledge	Engagement	Assessment
Student				
Knowledge				
Engagement				
Assessment				

Humanising Pedagogical Approach [1]

Conceptual, Semantic and Ontological Modelling

Theoretical Propositions

Student	Knowledge	Engagement [2]	Assessment

Data Models

Biographical data Knowledge status Performance *Engagement* Pace Student ID	Hierarchical relationship between concepts (segment -> nodes) sequence Complexity, level, distance, Objectives, outcomes	Structure, forms & process Rule based measurements *Student Profile*	Revised Bloom's Taxonomy QTI, Cognition, observation, interpretation Scope, type, rule based
Student Model	Knowledge Model	Engagement Model [2]	Assessment Model

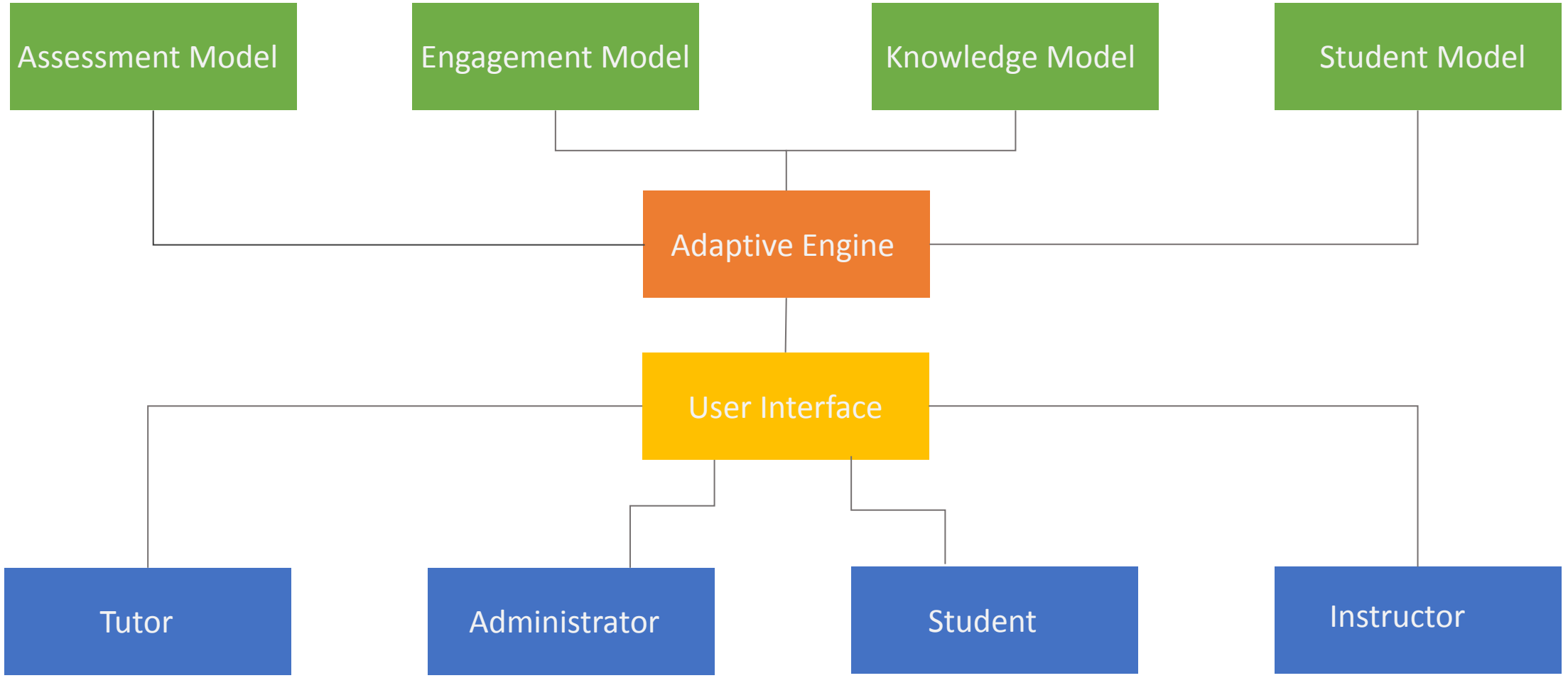
1. The Humanising Pedagogy provides the theoretical underpinning for the structure, sequence, process and choices followed by the adaptive engine.

2. Engagement replaces pedagogy as a model within the proposed adaptive engine, in order to;

a) Align the whole ALS system to humanising pedagogic views and

b) Prioritise engagement as a prerequisite to the learning process

Humanising Adaptive Learning Engine (HALE) Structure



Humanising Adaptive Learning Engine (HALE) Features

- Courses and activities
- Users
- Course enrolment
- User functionality
- A bit more about
- JavaScript library
- Upgrading
- Logs and statistics

Humanising Adaptive Learning Engine (HALE) Technology Stack

Backend

- PHP
- Python

Frontend

- React.js
- HTML/CSS

Databases

- MySQL

Hosting

- Firebase