

# TECM Model Architecture

## Decision Outputs

*Task-Exposure-Congestion-Market-Career Evolution Model*

Enrollment  
Strategy

Curriculum  
Redesign

Supply-Demand  
Projection

Environmental  
Impact

## Policy & Feedback

Module C  
Cost Engine

Module D  
VCB Congestion

Module E  
Dynamics

Module F  
Education

## Dynamic Core Engine

$A(t)$   
Adoption

$E(t)$   
Employment

$V_s(t)$   
Capability

$\rho(t)$   
Congestion

## Task Decomposition & Risk Assessment

Module A  
Task Parser

Module B  
Risk Index

Semantic  
Annotation

Weight  
Imputation

## Data Sources

O\*NET 30.1  
(Task Statements)

BLS OEWS  
(Employment)

IPEDS  
(Graduates)

AI Exposure  
(GPTs/AIOE)

Calibration  
Loop

Policy  
Feedback