



# Brillio – New Horizon College

Industry-Academia Connect

July 30, 2023

# VISION

“To shape the next generation of technocrats with industry relevant skills through industry academia collaboration”

# MISSION

“

We will partner with academia and shape industry relevant curriculum that includes contextual digital strategy, technology big bets with hands on immersive program enabling engineers to be industry ready

”

# What do we intend to achieve?

*Curriculum to be crafted with a 3-pronged approach that builds on the core Engineering skills with emphasis on hands on skills in industry relevant technology innovations*



## Foundational

- Applicable to CSE/ISE and MCA students
- Pre-requisites for students
  - Hands on expertise in any major cloud tech
  - Full stack experience desirable
  - Demonstrable experience in public speaking, journals, contributions to open forums, desirable
- Pre-requisites for NHCE
  - Lab setup with access to VR headsets, Cloud subscriptions



## Technology Trends

- Design thinking fundamentals
- Trend spotting/Industry perspectives
- Shaping a customer centric organization with connected and immersive experiences
- End to end Digitalization of businesses
- Driving towards a decision driven enterprise with Data Democratization and Responsible AI



## Experiential Trainings

- Use case development by industries
  - Omnichannel/Metaverse
  - Product Engineering
  - Digital twin
  - Data Democratization
  - Responsible AI

# Pre-requisites for Trainers, Students and Labs



**Trainer**

*Should understand Digital and Data sciences*

*Should have hands-on expertise in any of the major clouds (Azure, AWS)*



**Student**

*Hands-on expertise in any major cloud tech (Azure, AWS)*

*Full stack experience is desirable*

*Demonstrable experience in public speaking, journals, contributions to open forums, and desirable*



**Labs**

*Subscription to Azure or AWS cloud*

*VR headsets ~(20 – 25) – Microsoft Hololens/Meta Quest 2*

*BLE location/proximity/asset beacons*

# Course Content for Digital

1

**Design thinking fundamentals**

2

**Shaping a customer centric organization with connected and immersive experiences**

3

**End to end Digitalization of businesses**

4

**Driving toward a decision driven enterprise with Data Democratization and Responsible AI**



# 1. Design thinking fundamentals

What is Design? Why do we need it? How is it different from problem-solving?

Design Thinking Methodology and how to use it

- Design Process
- Driving through details of each phases of Design Process
- Tools and Frameworks
- Design Principles and Philosophies

Driving consistency and product adoption through Design Systems

Business aspect of design

Measuring success of design

ROI of Design





## 2. Shaping a customer-centric organization with connected and immersive experiences

- Rise of Metaverse – Experiences through AR/MR and VR
- The Different Shapes of the Metaverse: Games, NFTs (assets), Blockchain Protocols, Cryptocurrencies
- Multiverses and art of choosing centralized vs decentralized metaverse
- Web3 programming
- Blockchain fundamentals, permissioned, and permissionless blockchains
- Unity and Unreal engine
- Connected experiences – driving omnichannel and immersive realities



# 3. End to end Digitalization of businesses

- Building blocks of end-to-end digitalization – user experience, enterprise ecosystem, data strategy & connected devices
- Rise of composable applications and data
- Digital twins and their ramifications in digitizing an enterprise value chain
- Modeling vs Data-driven decisioning with digital twins



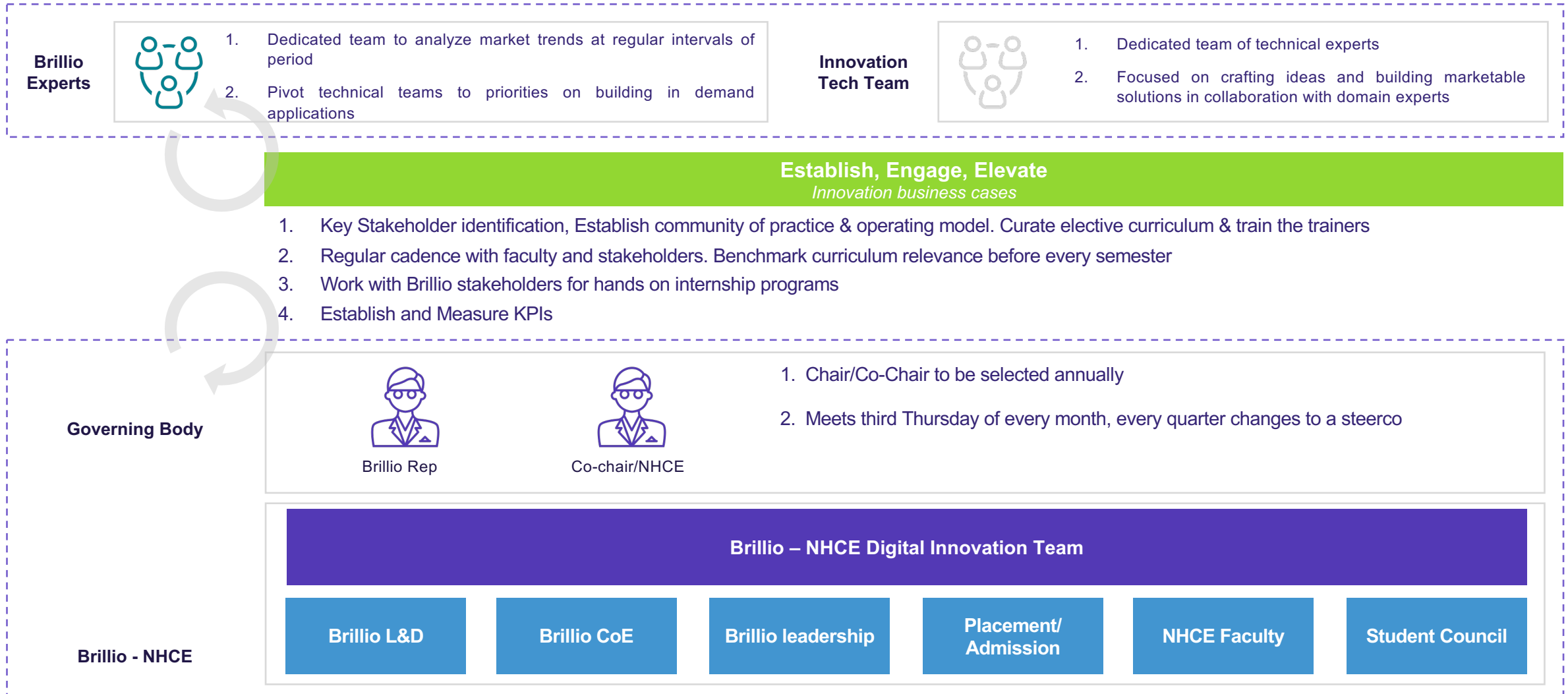
# 4. Driving toward a decision-driven enterprise with Data Democratization and Responsible AI

- Need for Data democratization & data democratization strategies
- Obstacles to Data democratization
- Rise of Data products and how to make data a core competency in an organization
- Responsible AI and the need for this
- The maturity model of Responsible AI
  - AI Fairness :
    - Justness: AI/ML Process pipeline, AI Bias (data/algorithms), tackling bias
    - Transparency: Accountability in making data decisions, Explainable AI
  - Ethical AI :
    - Governance of data, process, model
    - Differential vs federated privacy






# Brillio – New Horizon Engagement Model



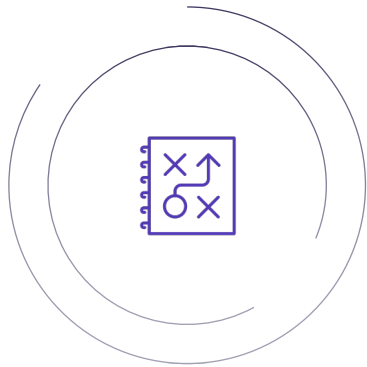
- Monthly Touchpoints with Faculty
- Quarterly Steerco



# RACI Matrix

	R	A	C	I
Foundation Set Up				
Stakeholder identification				
Playbook/Operating Model				
Curriculum definition				
Curriculum execution				
Intern Projects				

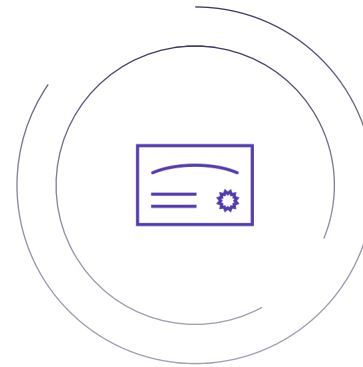
# What will be our measuring levers?



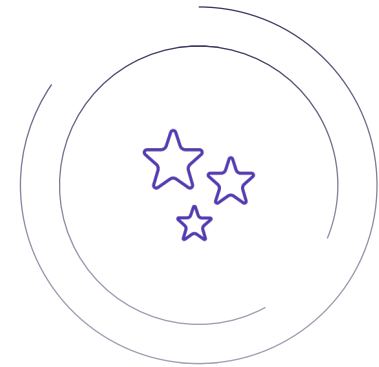
% of students opting for  
elective



Engagement Readiness



# of students  
joining Brillio



Time to Project



Thank you...