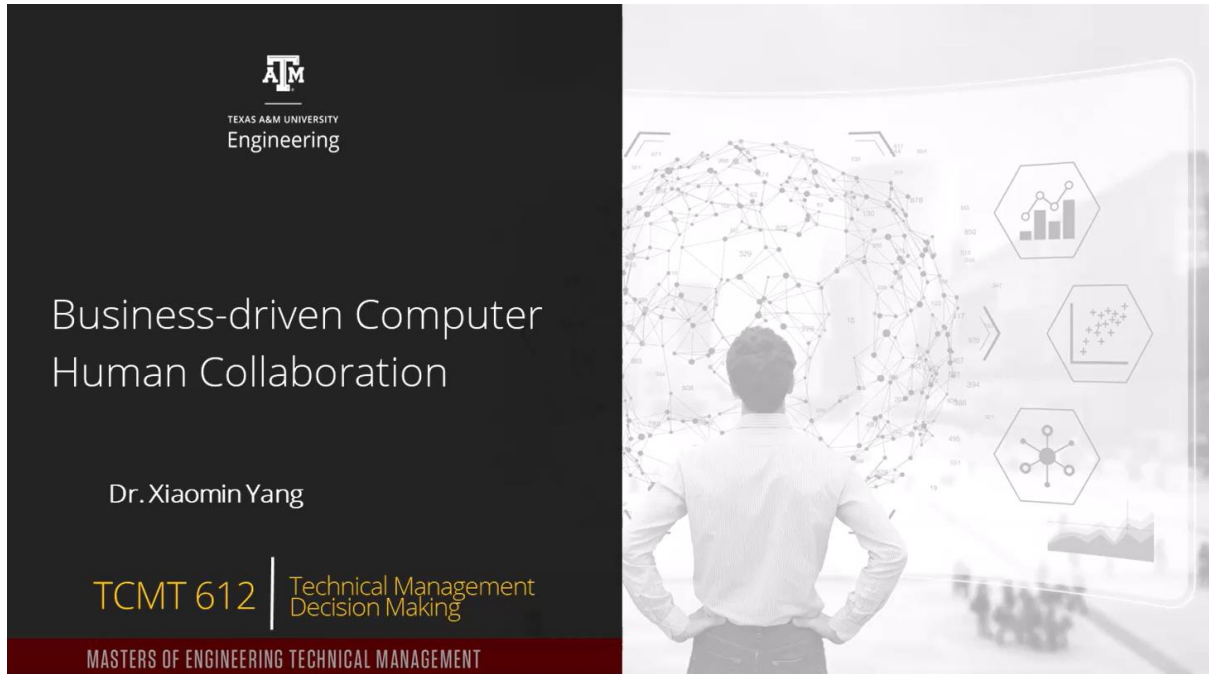


# M9L19. Human-Machine Collaboration

## Slide #1



The slide cover is divided into two main sections. The left section has a dark background with white and yellow text. The right section shows a person from behind, looking at a large, curved digital display. The display shows a complex network of nodes and lines, along with several hexagonal icons containing bar charts, line graphs, and network diagrams. The overall theme is human-machine collaboration and data-driven decision making.

**ATM**  
TEXAS A&M UNIVERSITY  
Engineering

Business-driven Computer  
Human Collaboration

Dr. Xiaomin Yang

**TCMT 612** | Technical Management  
Decision Making

MASTERS OF ENGINEERING TECHNICAL MANAGEMENT

**Slide #2**

## Business-Driven Computer-Human Collaboration



Translating data science into practical business solutions is a complex venture that poses challenges for both business practitioners and educators.

Translating data science into practical business solutions is a complex venture that poses challenges for both business practitioners and educators.

### Slide #3

## Business-Driven Computer-Human Collaboration



It requires

- A multidisciplinary approach
- Collaboration among stakeholders

to effectively integrate data science into business operations.

It requires a multidisciplinary approach and a collaborative effort among various stakeholders to effectively integrate data science into business operations.

**Slide #4**

## Business-Driven Computer-Human Collaboration



Close collaboration among all stakeholders is crucial.

A computer-human collaborative team is instrumental in developing and integrating data analytics solutions into the enterprise's value chain.

To successfully navigate this process, close collaboration among all stakeholders is crucial.

A computer-human collaborative team is instrumental in developing and integrating data analytics solutions into the enterprise's value chain.

## Slide #5

# Business-Driven Computer-Human Collaboration



Subject matter experts from

- Corporate strategy and business unit
- IT and data science
- Sales and Customer services
- Other relevant functions

This team comprises individuals with diverse expertise, including subject matter experts from corporate strategy and business units, IT and data science professionals, and representatives from sales and customer services, among other relevant functions.

## Slide #6

# Business-Driven Computer-Human Collaboration



Corporate strategy and business unit professionals:

- Ensure alignment between data-driven solutions and strategic goals and objectives.
- Provide insight into business challenges and requirements

The involvement of subject matter experts from corporate strategy and business units ensures that data driven solutions are aligned with the overall strategic goals and objectives of the organization.

They provide valuable insights into the specific business challenges and requirements that need to be addressed.

## Slide #7

# Business-Driven Computer-Human Collaboration



### IT and Data Science Professionals:

- Facilitate development and implementation of data analytics solutions.
- Extracting meaningful insights from available data

IT and data science professionals bring their technical expertise to the table, facilitating the development and implementation of data analytics solutions.

Their knowledge of data collection, analysis, and interpretation is instrumental in extracting meaningful insights from the available data.

## Slide #8

# Business-Driven Computer-Human Collaboration



### Sales and Customer Service Representatives:

- Provide feedback and input to help shape data driven solutions

Sales and customer service representatives play a crucial role you. in providing insights from the front lines of customer interactions.

Their feedback and input help shape data driven solutions that address customer needs and enhance the overall customer experience.



**Slide #9**

## Business-Driven Computer-Human Collaboration



Collaboration enables the team to:

- Design
- Develop
- Incorporate

By bringing together these diverse perspectives and skill sets, the computer human collaborative team ensures a holistic approach to integrating data science into the business.

This collaborative effort enables the team to thoughtfully design, rapidly develop, and seamlessly incorporate data driven solutions into various aspects of the enterprise's value chain.

**Slide #10**

## Business-Driven Computer-Human Collaboration



Translating data science into business requires collaboration among stakeholders from:

- Corporate strategy
- Business units
- IT and data science
- Sales
- Customer services

Translating data science into business requires a collaborative effort that involves stakeholders from corporate strategy, business units, IT, data science, sales, and customer services.

**Slide #11**

## Business-Driven Computer-Human Collaboration



By leveraging the expertise of these individuals and fostering multidisciplinary collaboration, organizations can effectively integrate data analytics solutions into their operations, driving innovation and gaining a competitive edge in the market.

By leveraging the expertise of these individuals and fostering multidisciplinary collaboration, organizations can effectively integrate data analytics solutions into their operations, driving innovation, and gaining a competitive edge in the market.