

Session 1-2 Database Development Process

Kyunghee Lee, PhD

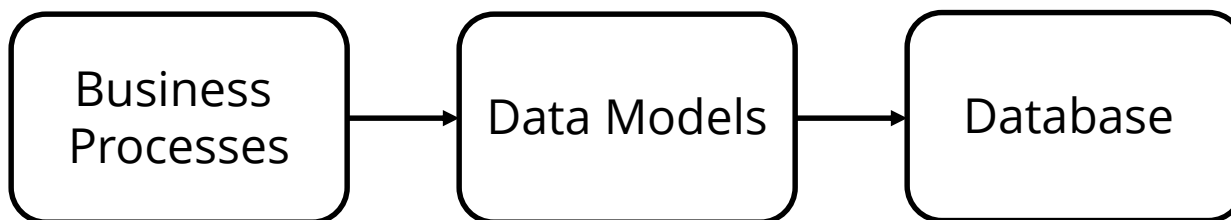


WAYNE STATE
Mike Ilitch School of Business

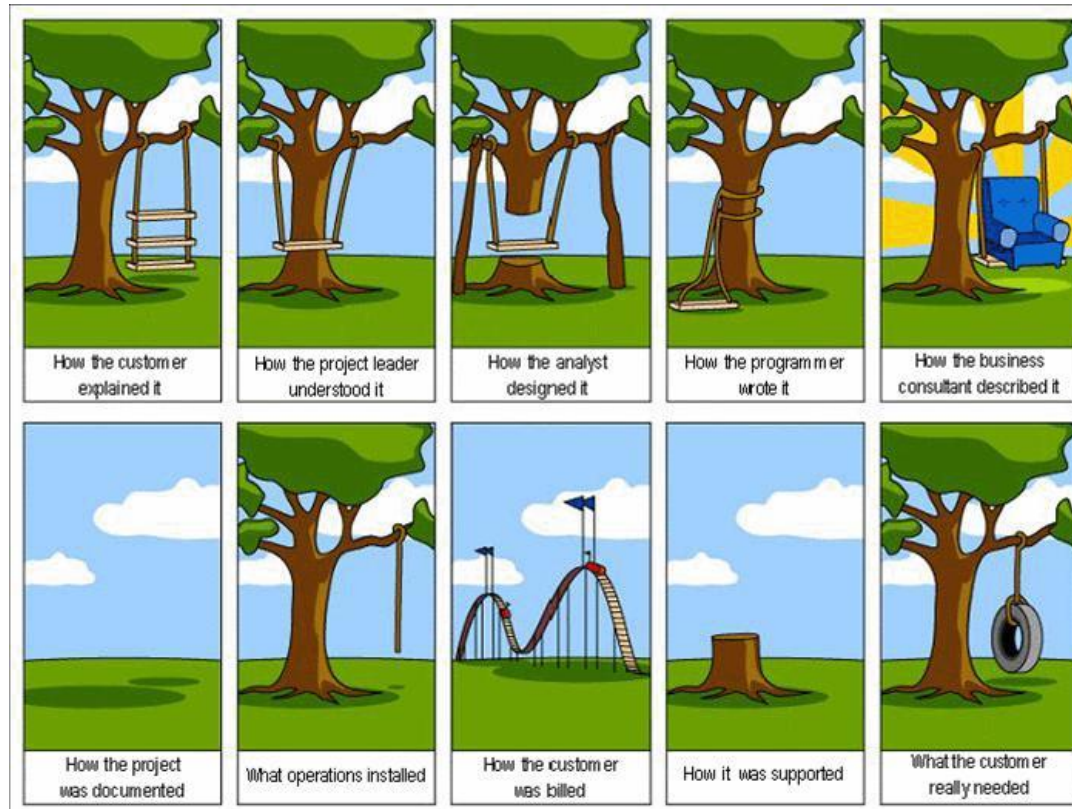
Data(base) Modeling

“... a process used to define and analyze data requirements needed to support the business processes within the scope of corresponding information systems in organizations”

A conceptual representation of database development



How IS projects could go wrong ...

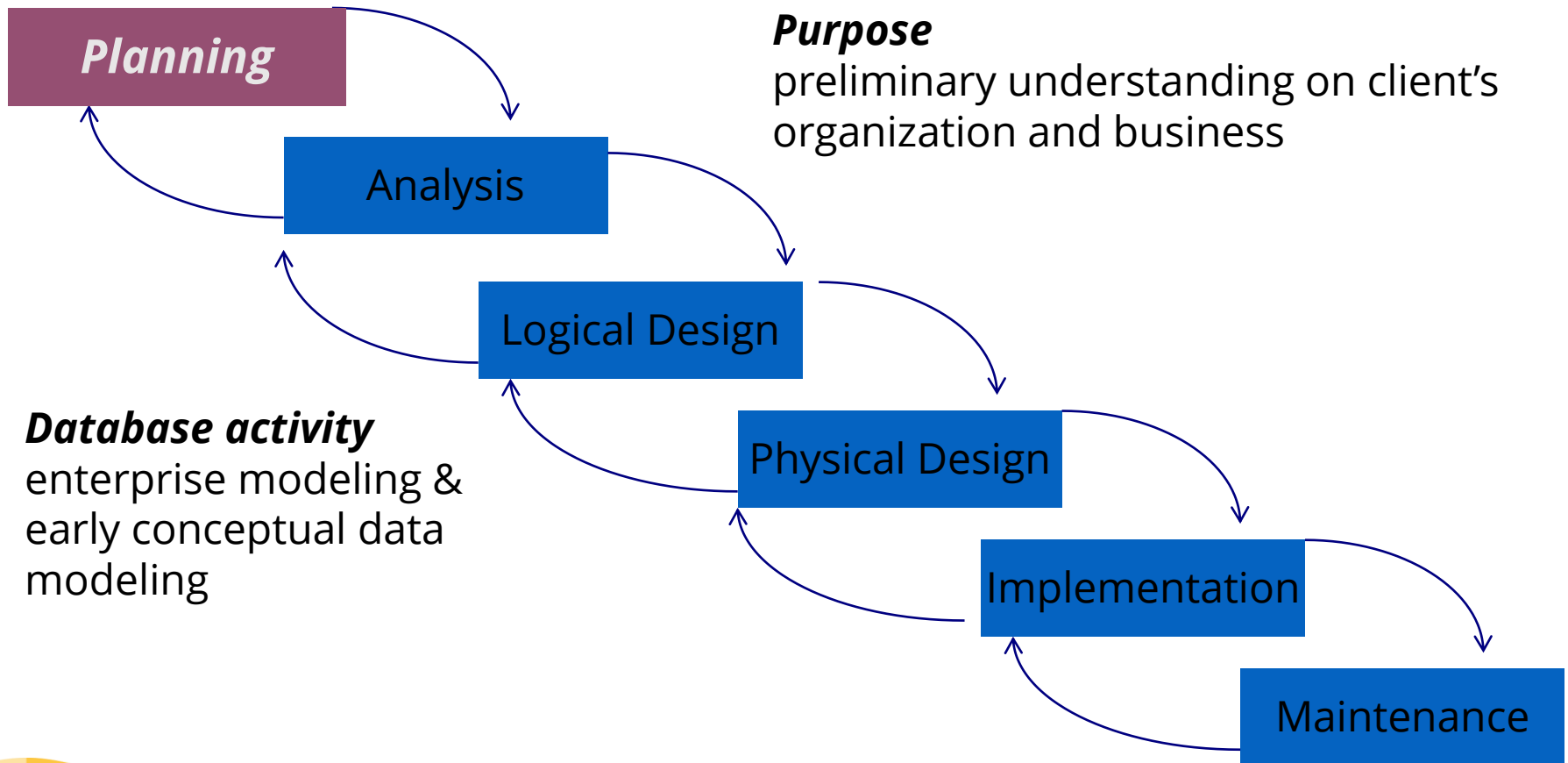


Two Popular Approaches to IS Development

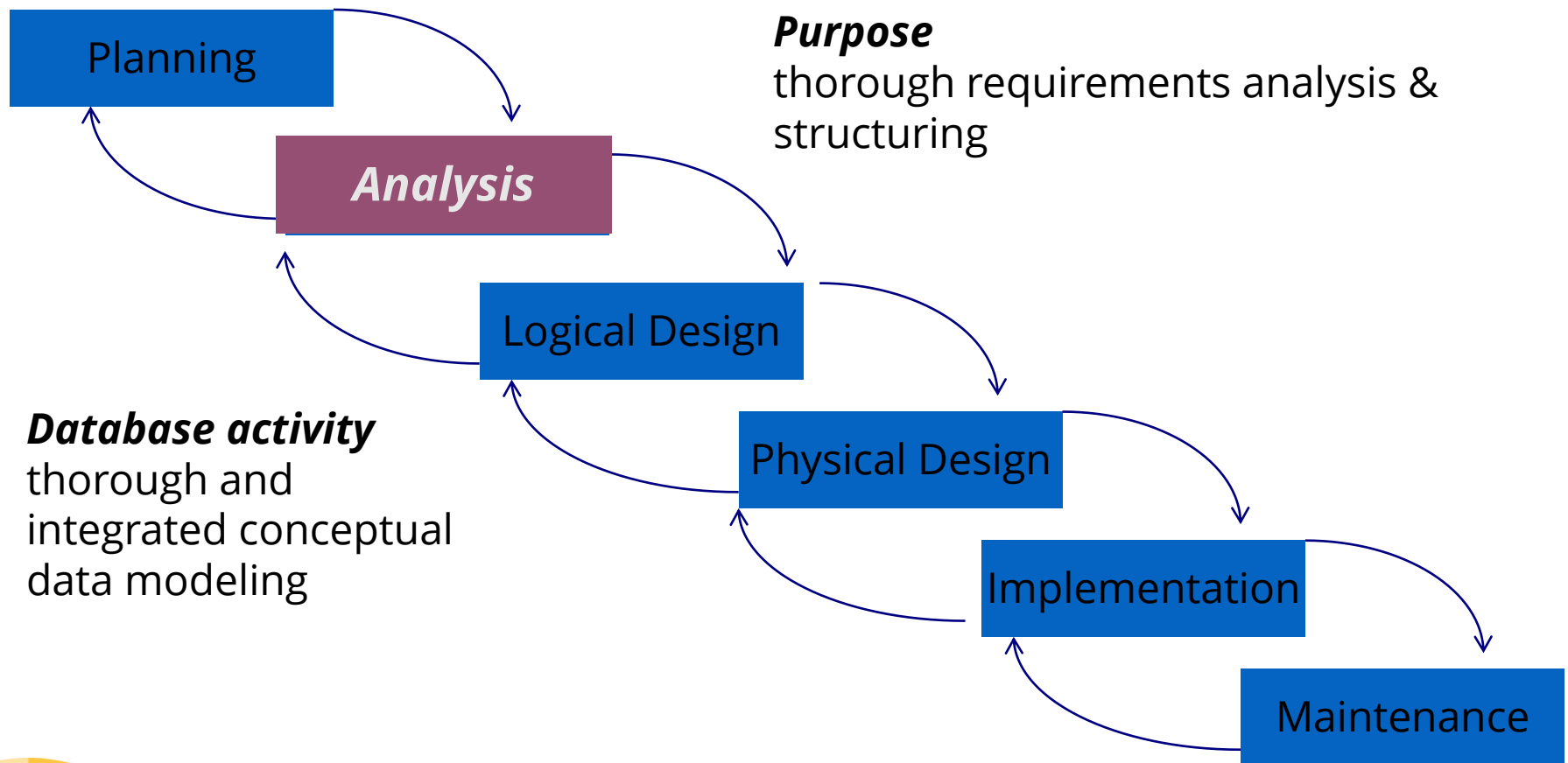
- Systems Development Life Cycle (SDLC)
 - Traditional method
 - Highly structured, detailed, well-planned process
 - Long, time-consuming, but comprehensive
- Prototyping
 - Rapid application development (RAD) method
 - Less emphasis on planning and more on an adaptive process to iteratively build and revise working prototypes



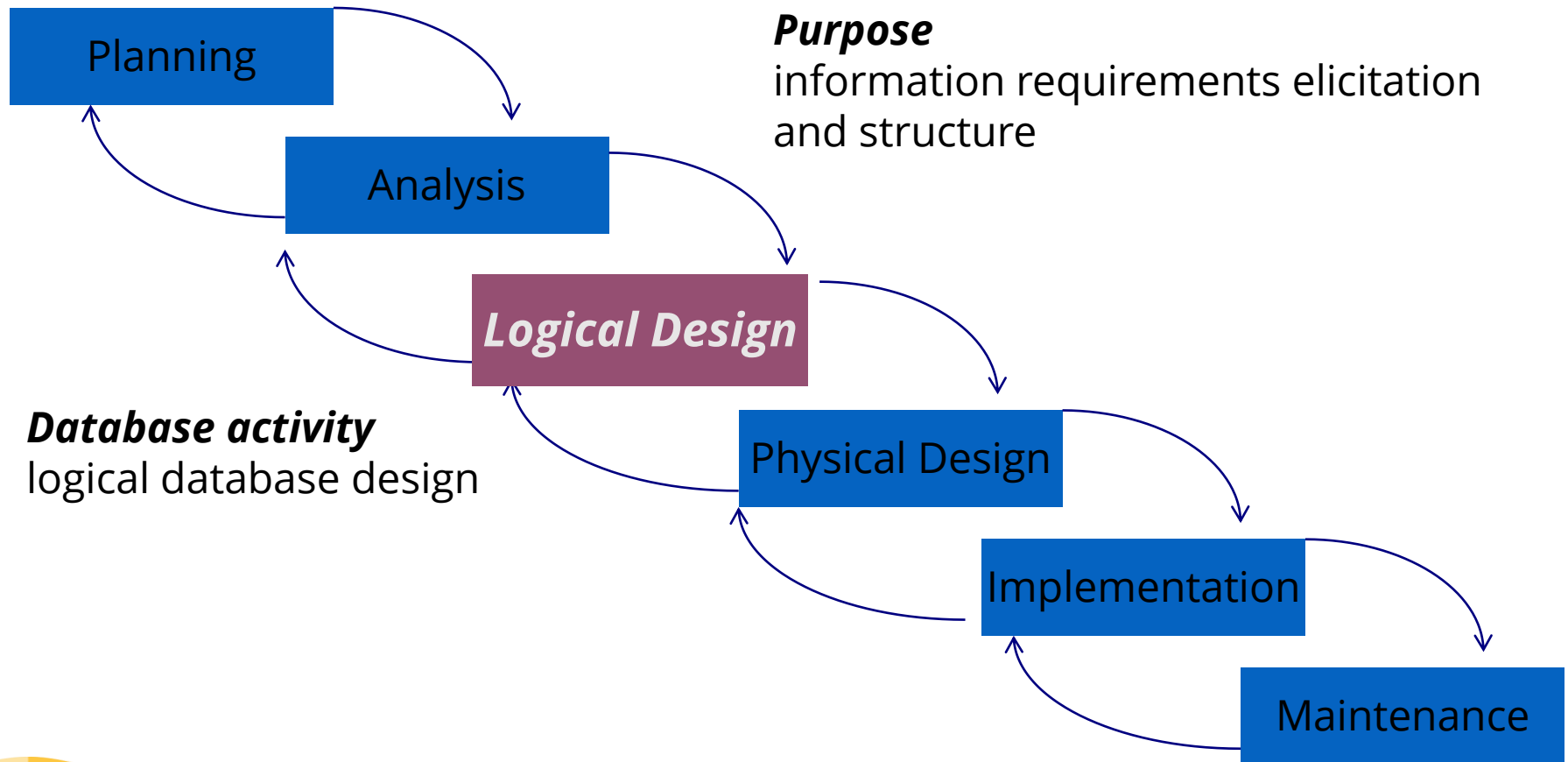
Systems Development Life Cycle



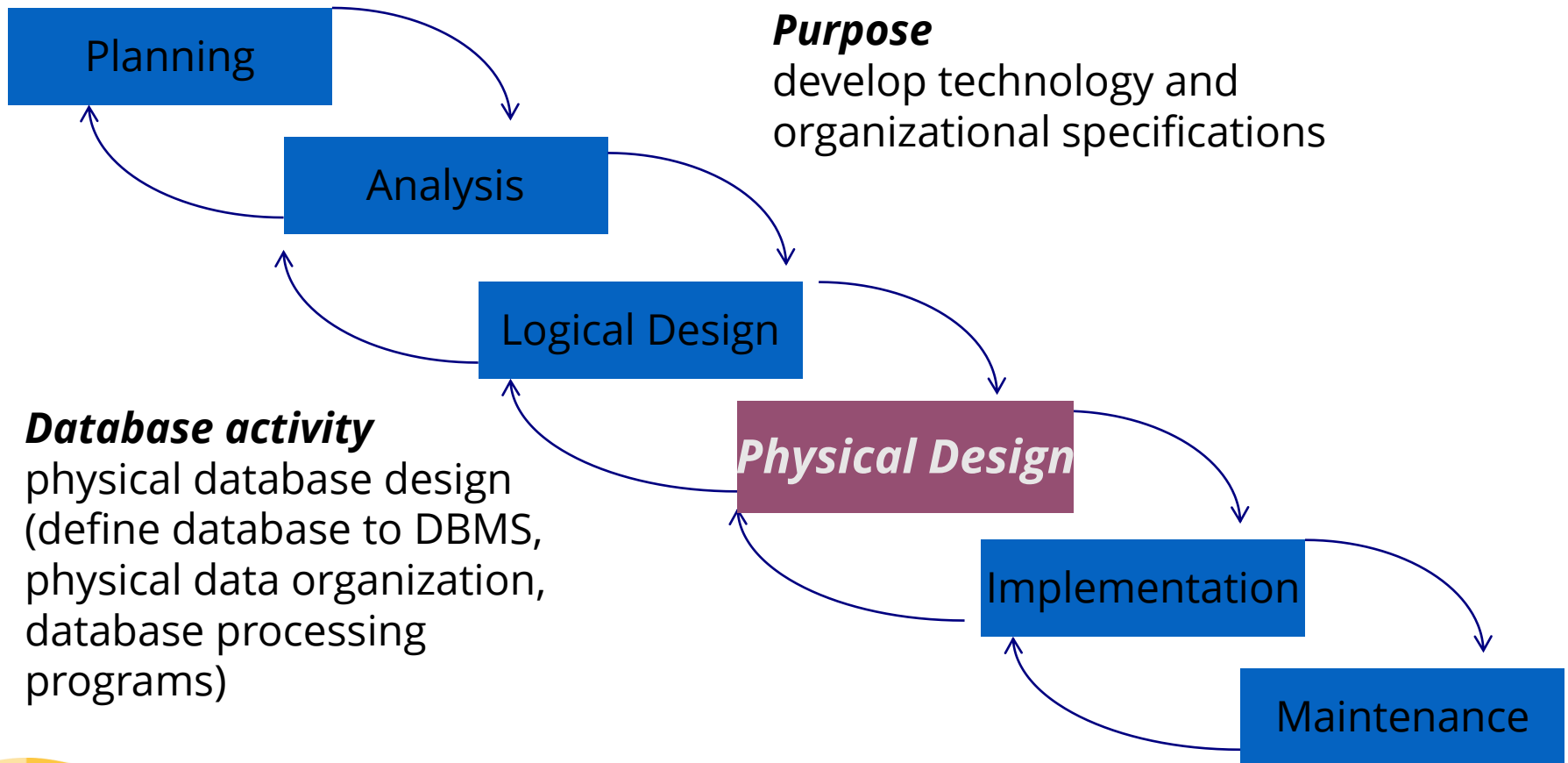
Systems Development Life Cycle



Systems Development Life Cycle



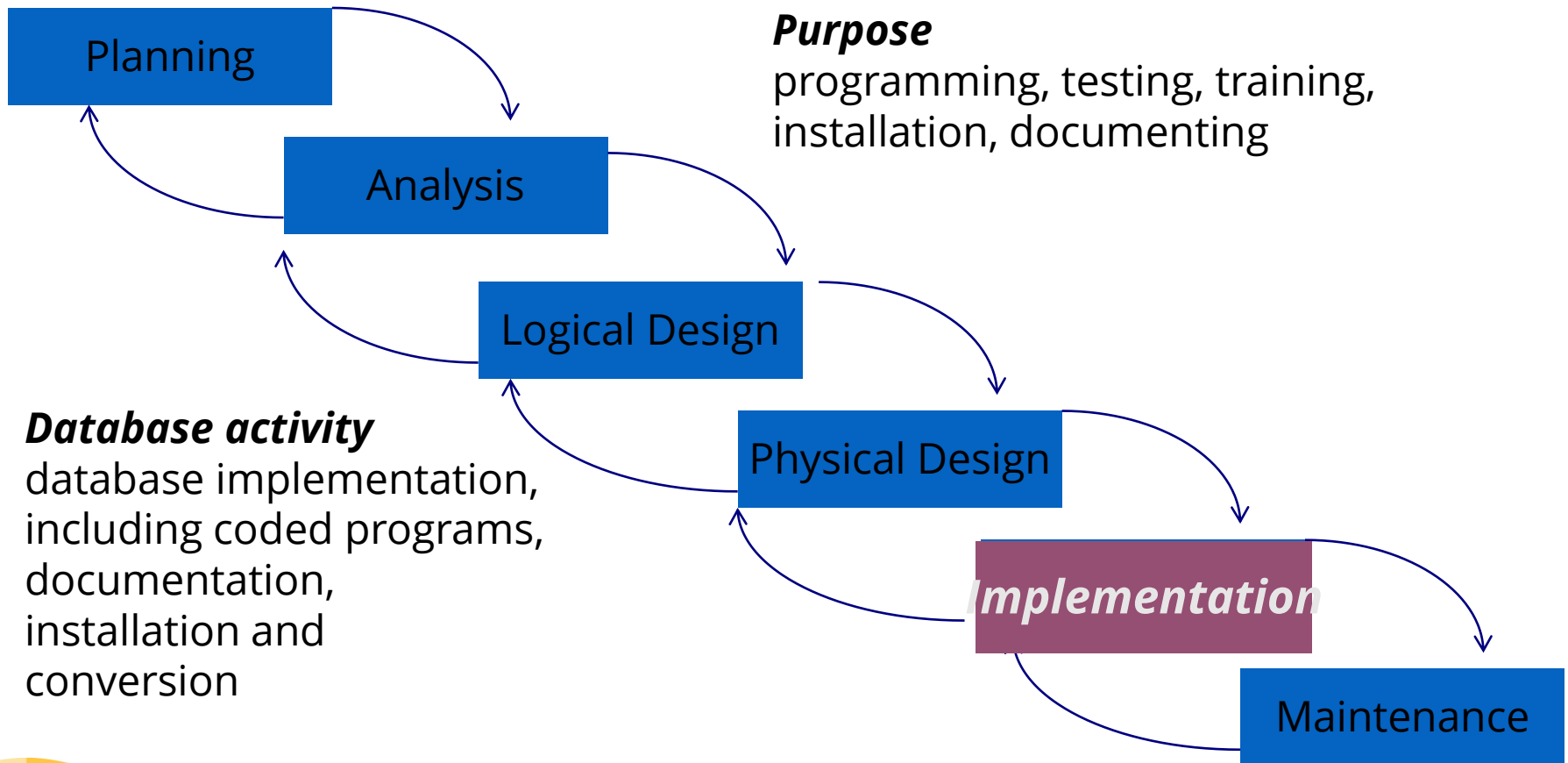
Systems Development Life Cycle



WAYNE STATE

Mike Ilitch School of Business

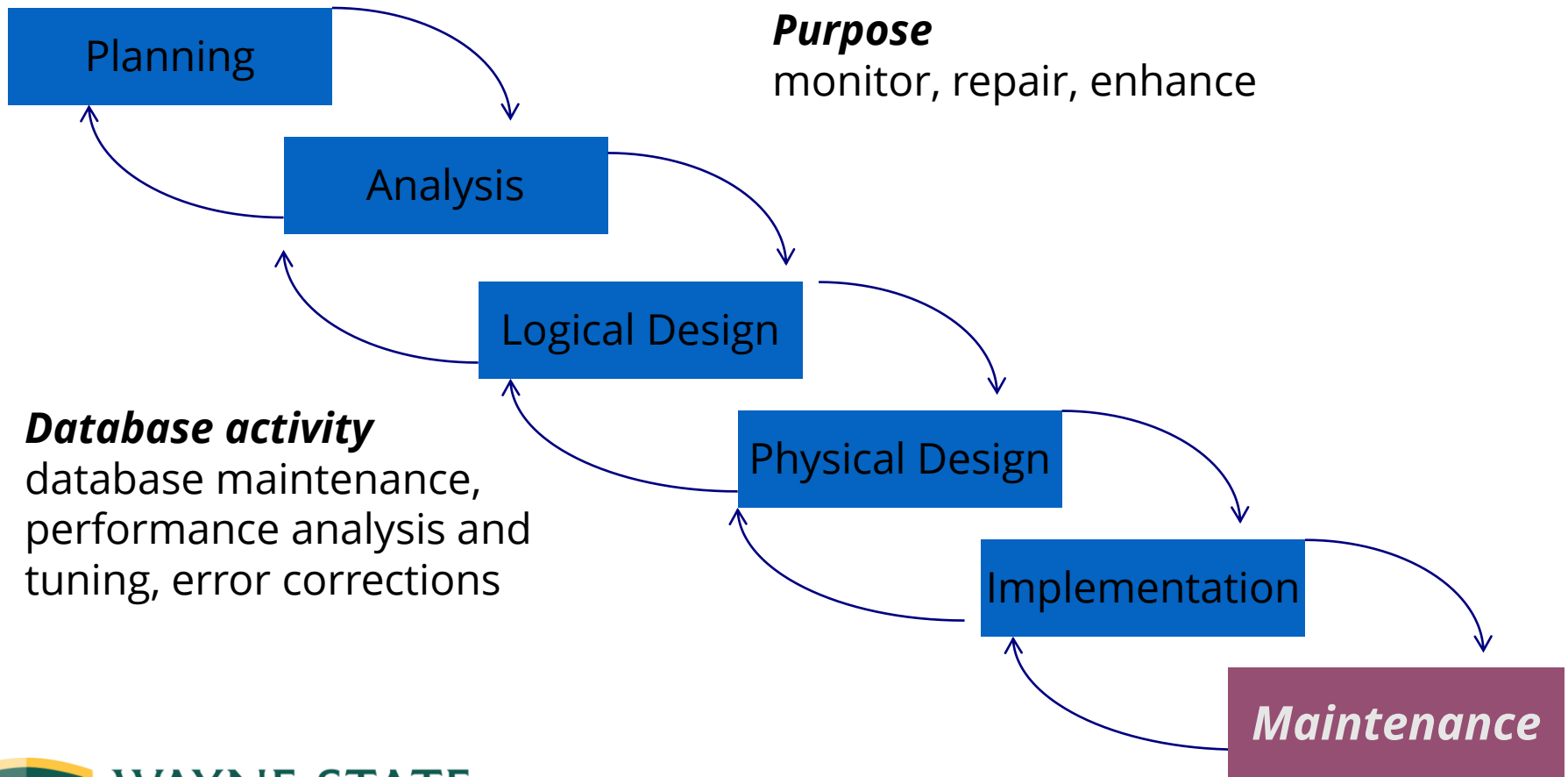
Systems Development Life Cycle



WAYNE STATE

Mike Ilitch School of Business

Systems Development Life Cycle



Systems Development Life Cycle

Select font size **T** T T

What's the development phase of SDLC that creates integrated conceptual models in detail?



☒ Allow Single Choice Only

☐ Shuffle Answers

☒ Allow Retry

☐ Limit Attempts

☐ Allow Multiple Choices

Planning



Preview

[Terms](#) | [Privacy & Cookies](#)

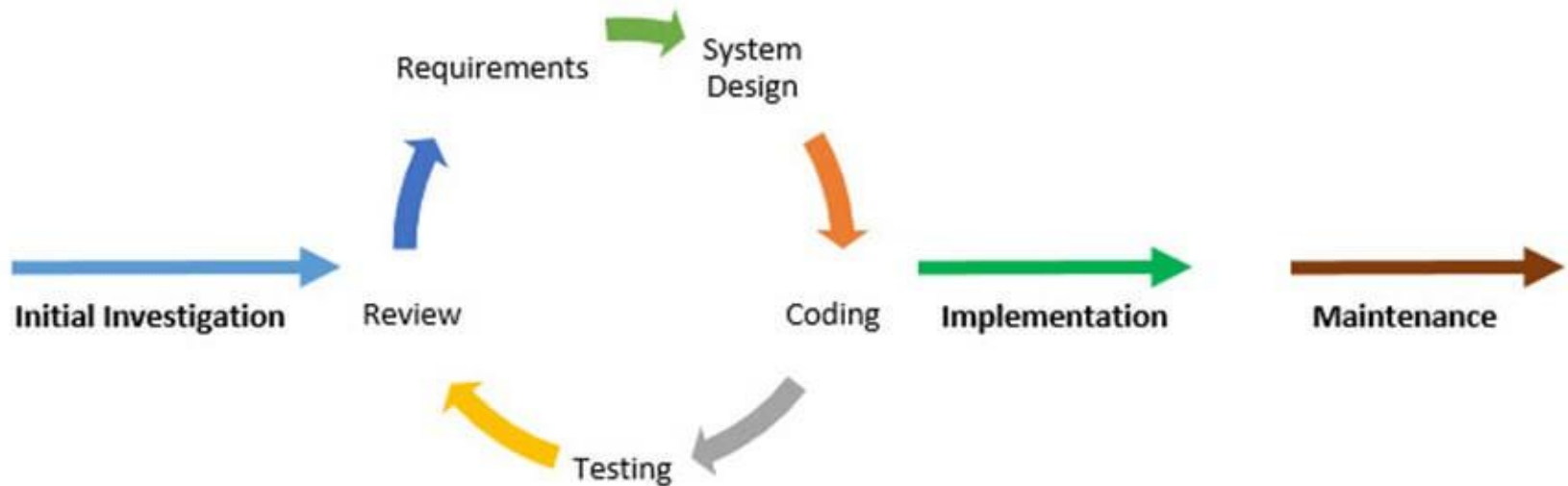


WAYNE STATE

Mike Ilitch School of Business

Prototyping Method

Prototyping



More on IS Development Methodology

- Agile – emphasizes “individuals and interactions over processes and tools, working software over comprehensive documentation, customer collaboration over contract negotiation, and response to change over following a plan.” (The Agile Manifesto)
- Examples of agile programming methodologies
 - eXtreme programming
 - Scrum
 - DSDM Consortium
 - Feature-driven development
- <https://www.youtube.com/watch?v=YYHcauc6BL0>



Wrap-Up

- Database development process
- IS development methodology

