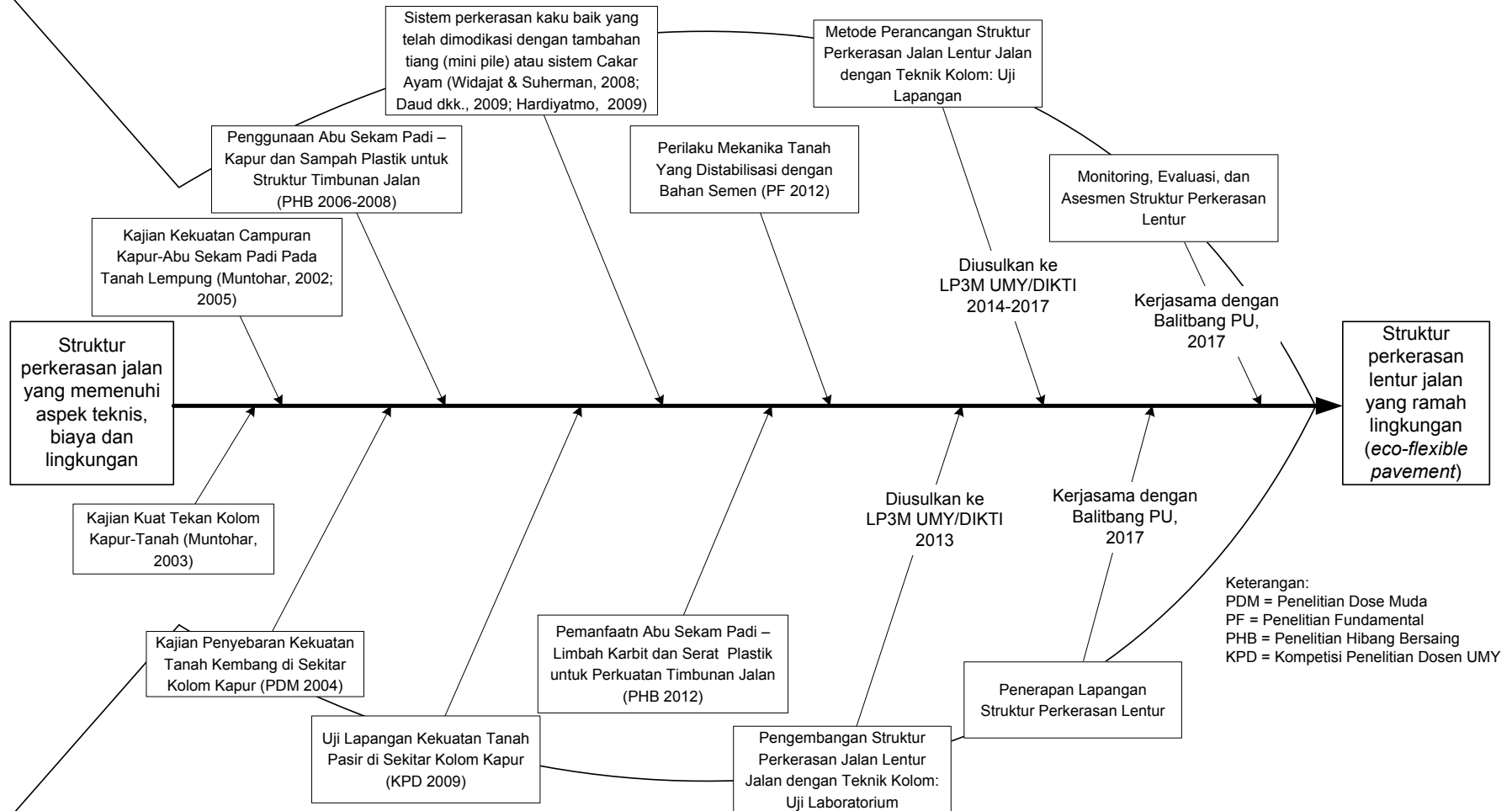


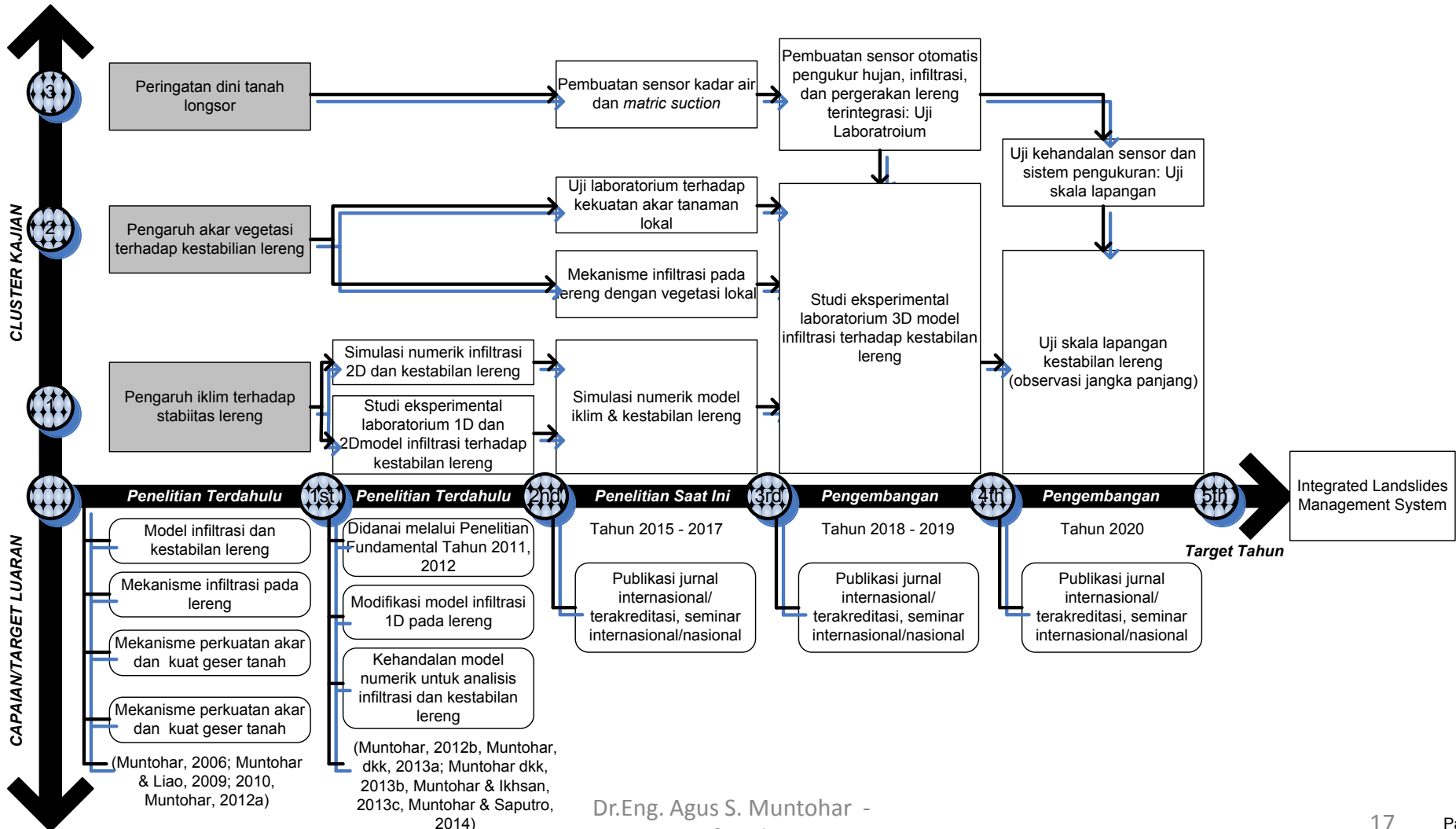


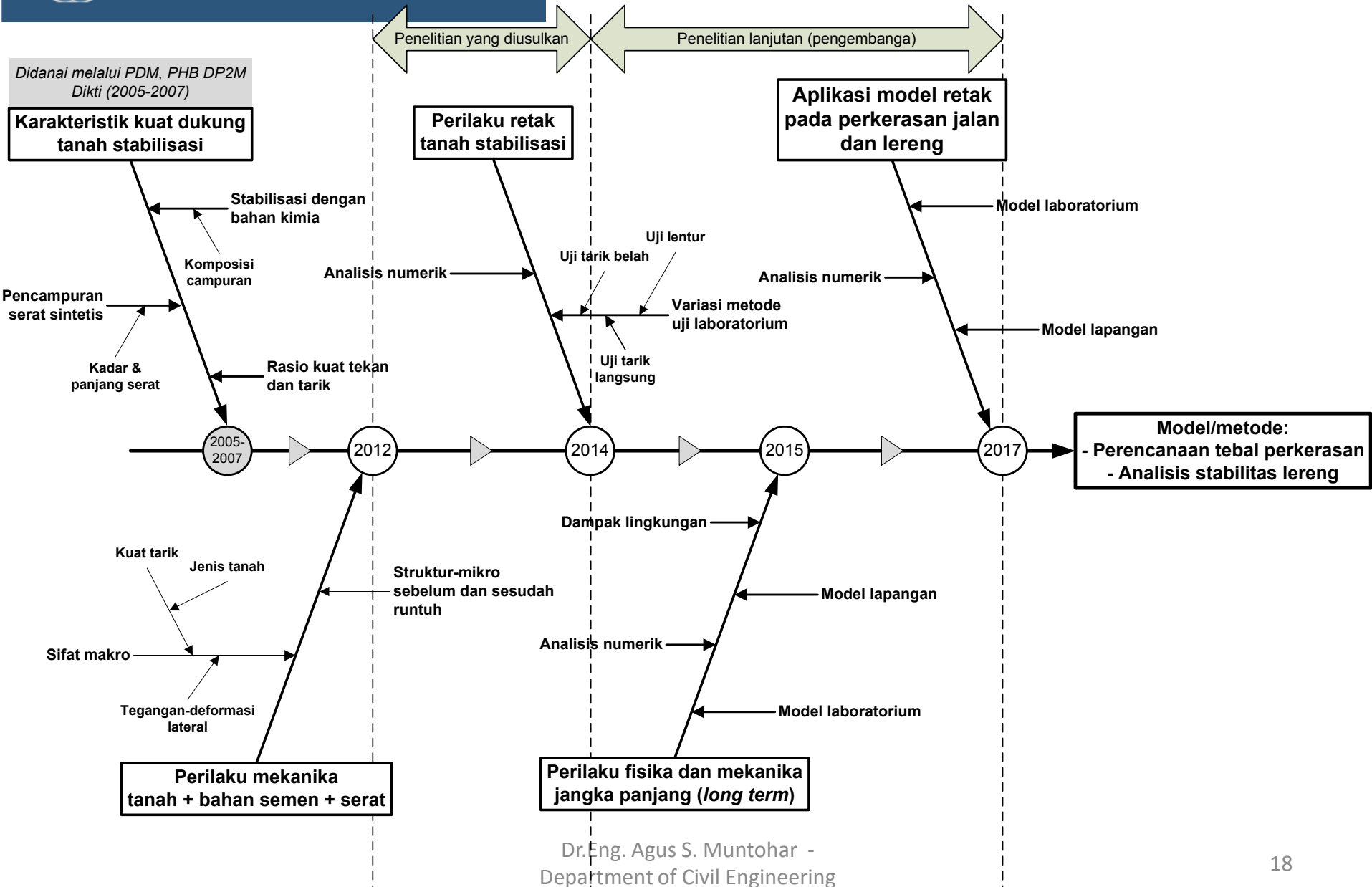
Research Roadmap on Sustainable Pavement Technology





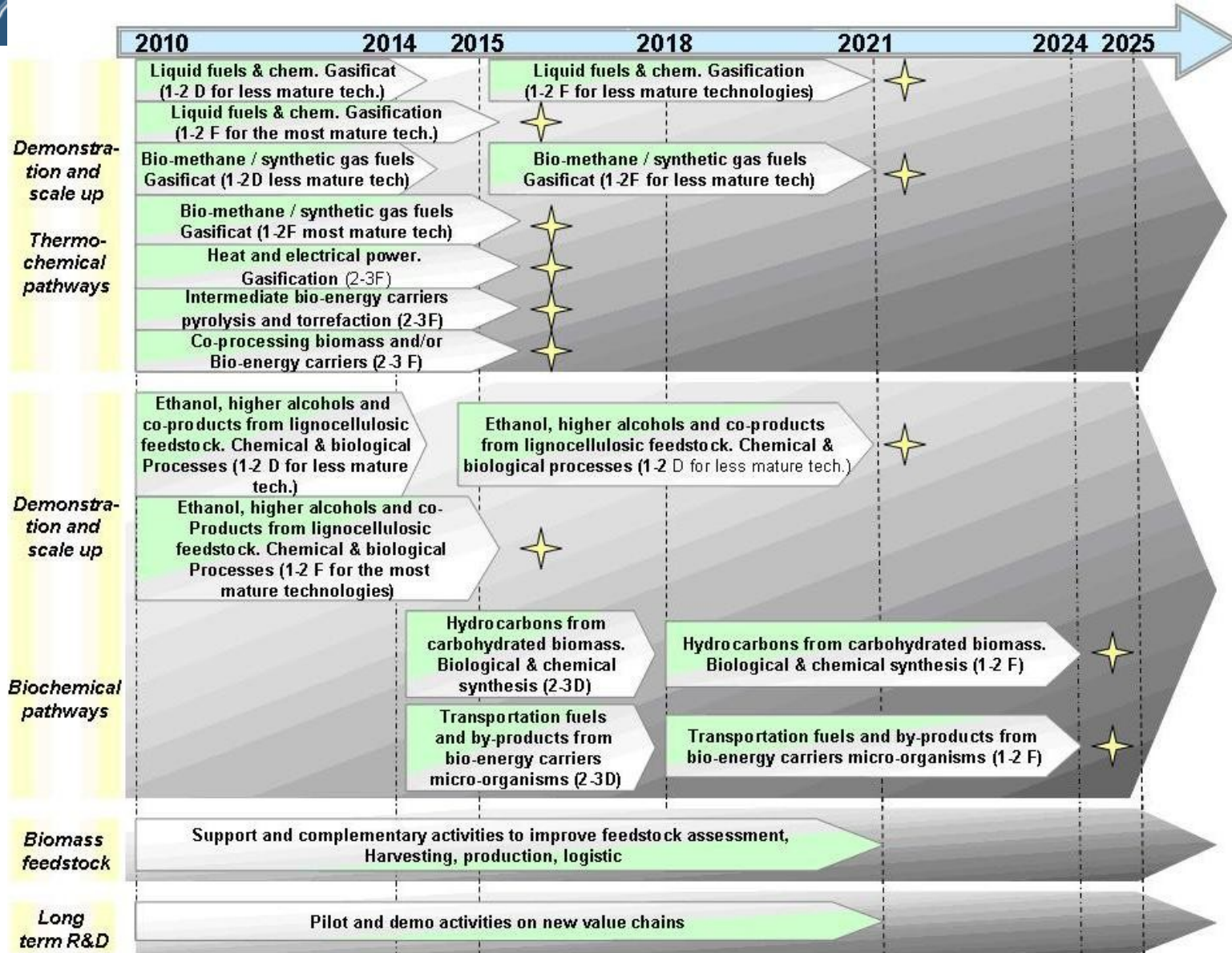
Research Roadmap on Landslides



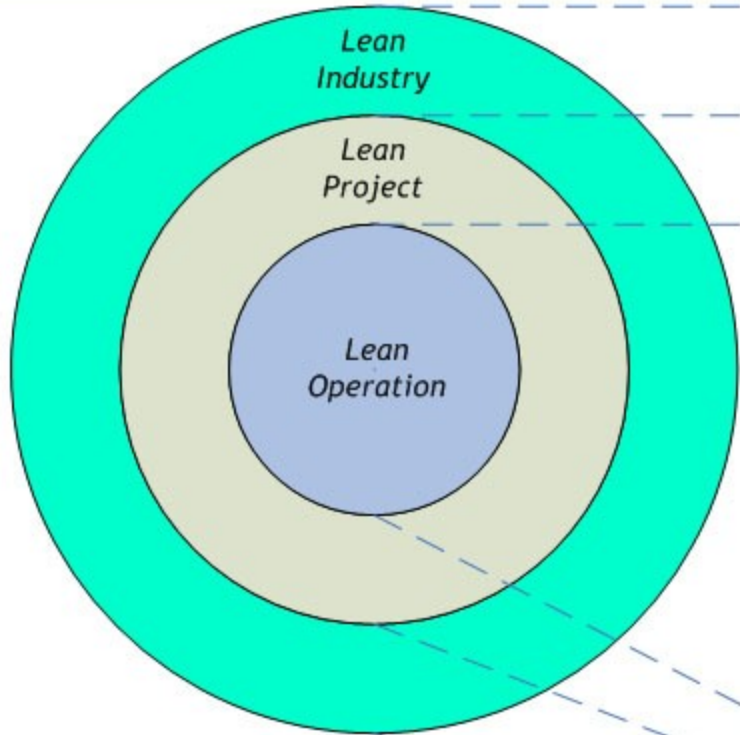
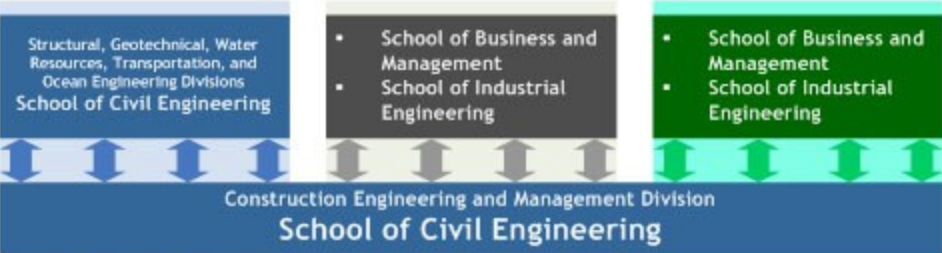




Contoh Road Map Bioenergy



Interactions between CEM division and other divisions in School of Civil Engineering and beyond



- Construction Engineering**
- Automation process
 - Product Design
 - Process Design
 - Productivity improvement
 - Construction Materials
 - Construction Methods
 - Construction Equipments
 - Worker Skills
 - Computer Applications
 - Information Technology
 - Occupational Safety & Health
 - Constructability
 - Concurrent Engineering
 - Value Engineering
 - Condition assessment

- Construction Management**
- Project Delivery Systems
 - Risk Management
 - Feasibility Study
 - Procurement
 - Legal Aspect
 - Material & Equipment Management
 - Cost Estimation
 - Scheduling
 - Quality Management
 - Project control
 - Human Resource Management
 - Project Finance
 - Information & Communication Technology
 - Partnering
 - Negotiation
 - Leadership
 - Decision Analysis
 - Job assignment

- Construction Industry**
- System Analysis
 - Policy Studies
 - Capacity Building
 - Agencies
 - Funding
 - Economics
 - Human Resource Development
 - Research & Development
 - International Cooperation
 - Price Controls
 - Company Finance
 - Codes and Standards
 - Accreditation and Certification
 - Sustainable Construction
 - Incentive System
 - Links to Other Industries
 - Benchmarking
 - Infrastructure Management
 - Merger & Acquisitions
 - Privatization
 - Construction Business
 - Strategic Management

Research Agenda: Lean Construction

Minimizing waste and maximizing value in all aspects of construction operations, construction projects, and the Indonesian construction industry.

Fields of Teaching, Research and Applications