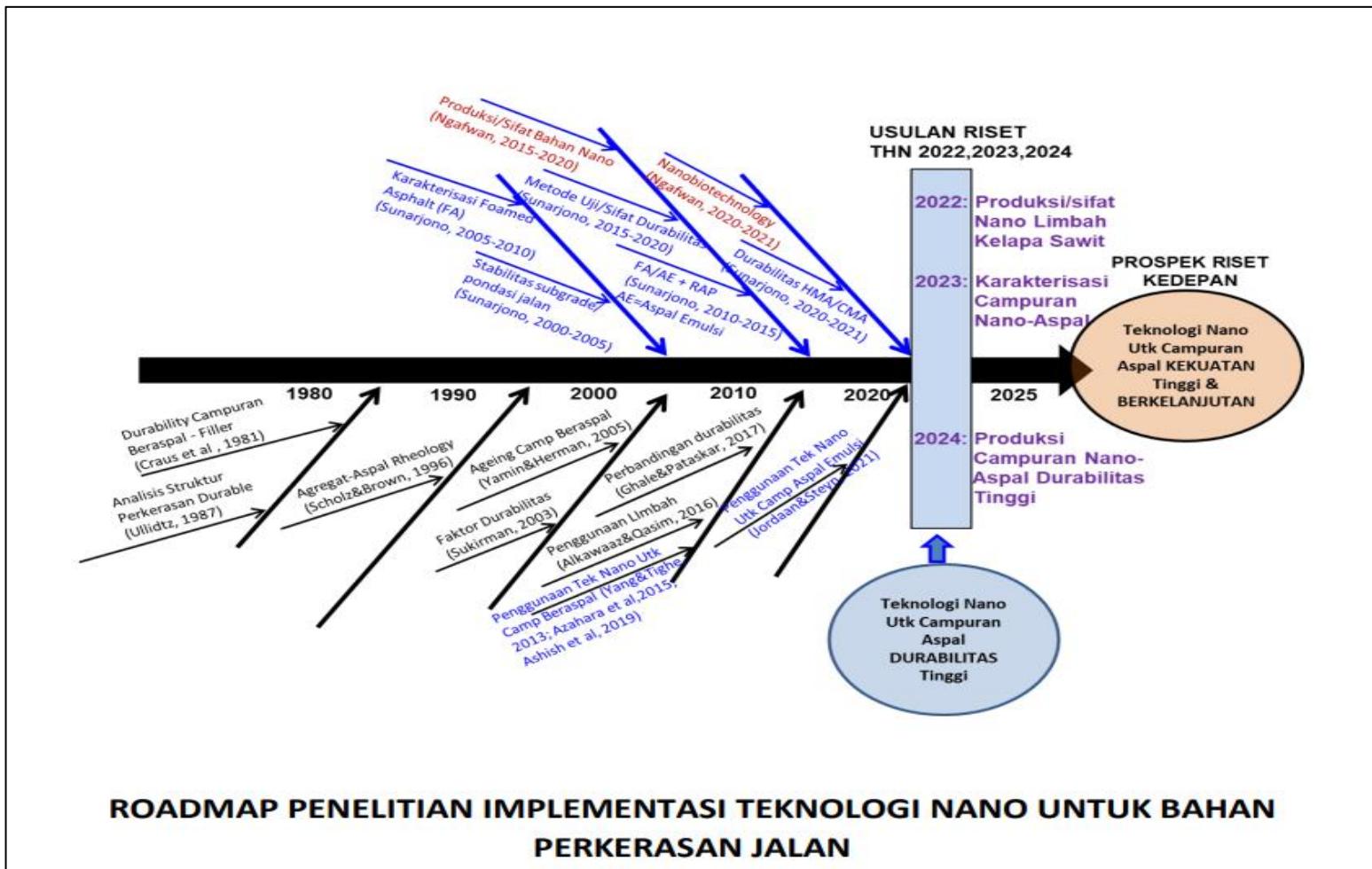


# ROAD MAP PENELITIAN DOSEN PROGRAM STUDI MAGISTER TEKNIK SIPIL FAKULTAS TEKNIK UNIVERSITAS MUHAMMADIYAH SURAKARTA

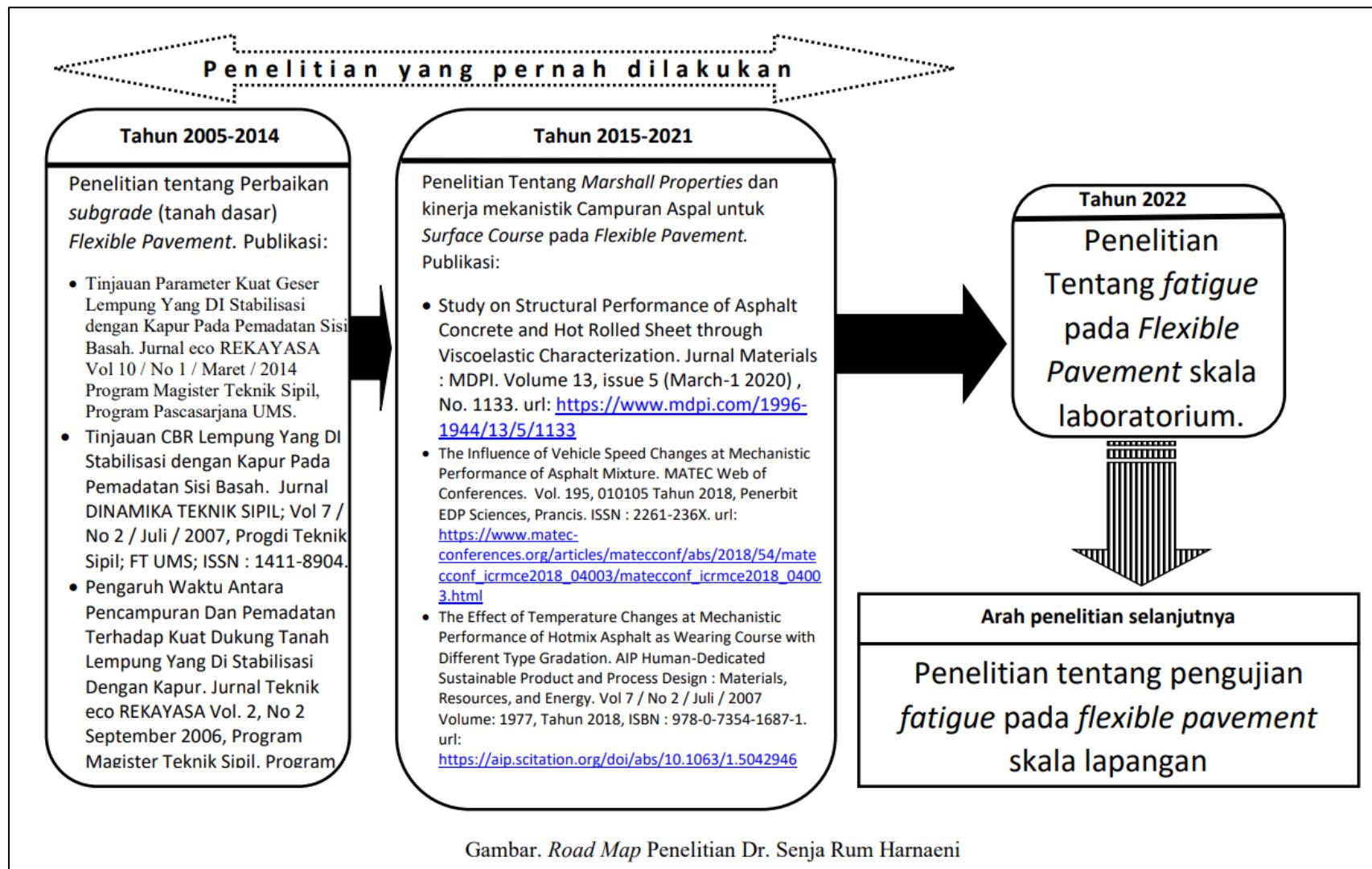
1. Ir. Sri Sunarjono, M.T., Ph.D



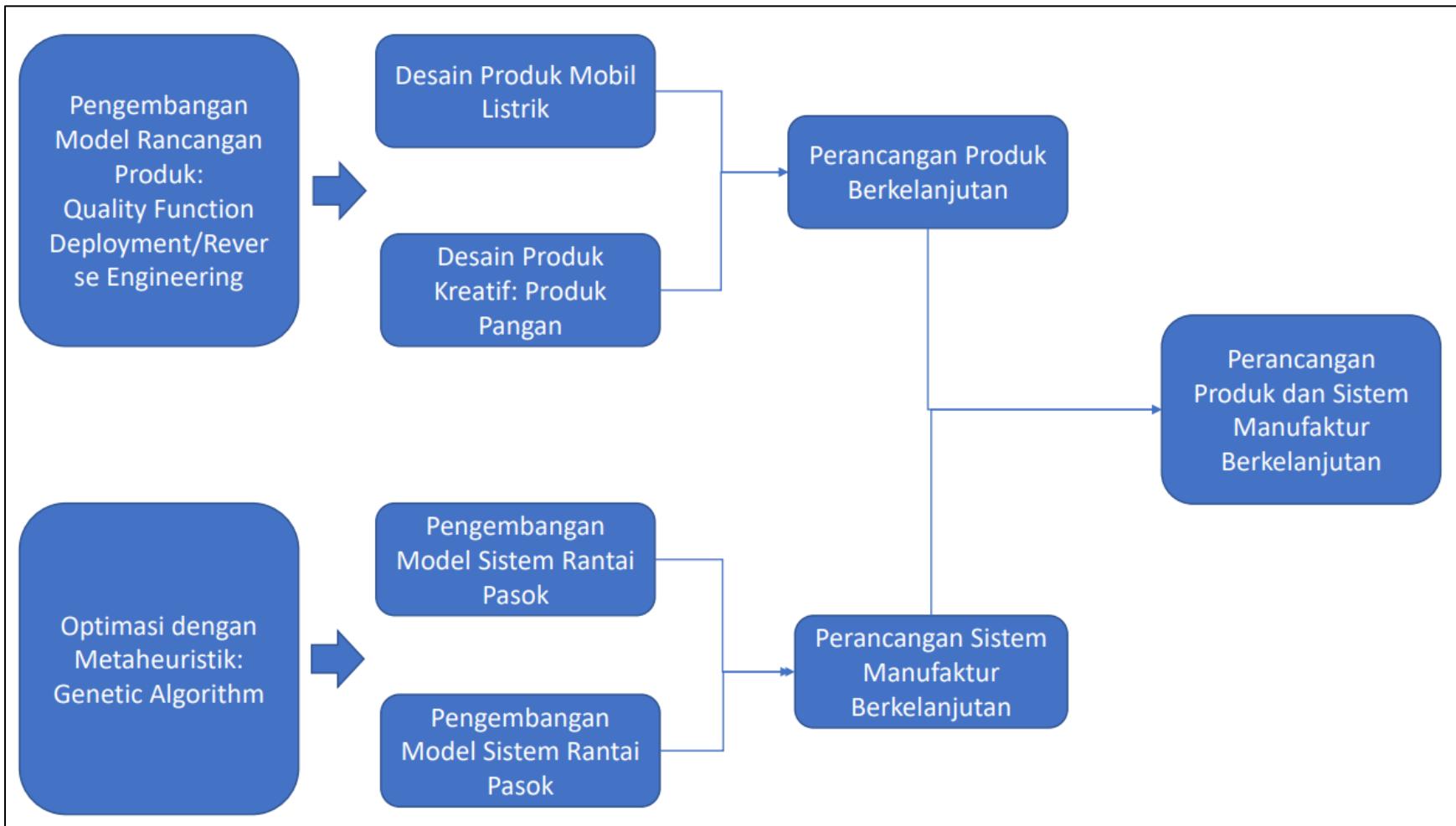
## 2. Ir. Mochamad Solikin, S.T., M.T., Ph.D

2019	2020	2021	2022	2023	2024	2025	2026	2027
<b>High volume fly ash concrete (HVFA concrete)</b>		<b>Application of HVFA concrete</b>				<b>Improvement properties of HVFA</b>		<b>Recommendation for utilization of fly ash in Indonesia</b>
Normal strength concrete	High strength concrete	<b>Self compacting concrete (SCC)</b>	<b>Precast concrete</b>		(SCC)	<b>Eaely strength concrete</b>	<b>High performance concrete</b>	
Materials of research - Fly ash from 3 different sources - Three levels of strength of concrete - Two addition materials i.e : o Lime water for class F fly ash o High silica material and lime water for class C Fly ash	Materials for research - Fly ash from 2 different sources - Three levels of strength of concrete - Additional of fibre - Two addition materials, same as in HVFA concrete	Materials for research - Fly ash from 2 different sources - Two levels of strength of concrete - Two addition materials, same as in HVFA concrete	- Fly ash from 2 different sources - Three levels of strength of concrete - Additional of fibre - Two addition materials, same as in HVFA concrete	Materials of research - Fly ash from 3 different sources - Three levels of strength of concrete - Two addition materials i.e : o Silica fume o Utilization of fine Fly ash	Included Application			
<b>Test of HVFA concrete</b> - Properties of fresh concrete - Mechanical properties of the concrete - Durability properties of the concrete - Bonding test / structural test - Shrinkage and creep test - Leaching test	Test method - Properties of fresh concrete - Mechanical properties of the concrete - Durability properties of the concrete - Bonding test / structural test - Shrinkage and creep test - Leaching test			Test method - Properties of fresh concrete - Mechanical properties of the concrete - Durability properties of the concrete - Bonding test / structural test - Shrinkage and creep test - Leaching test				

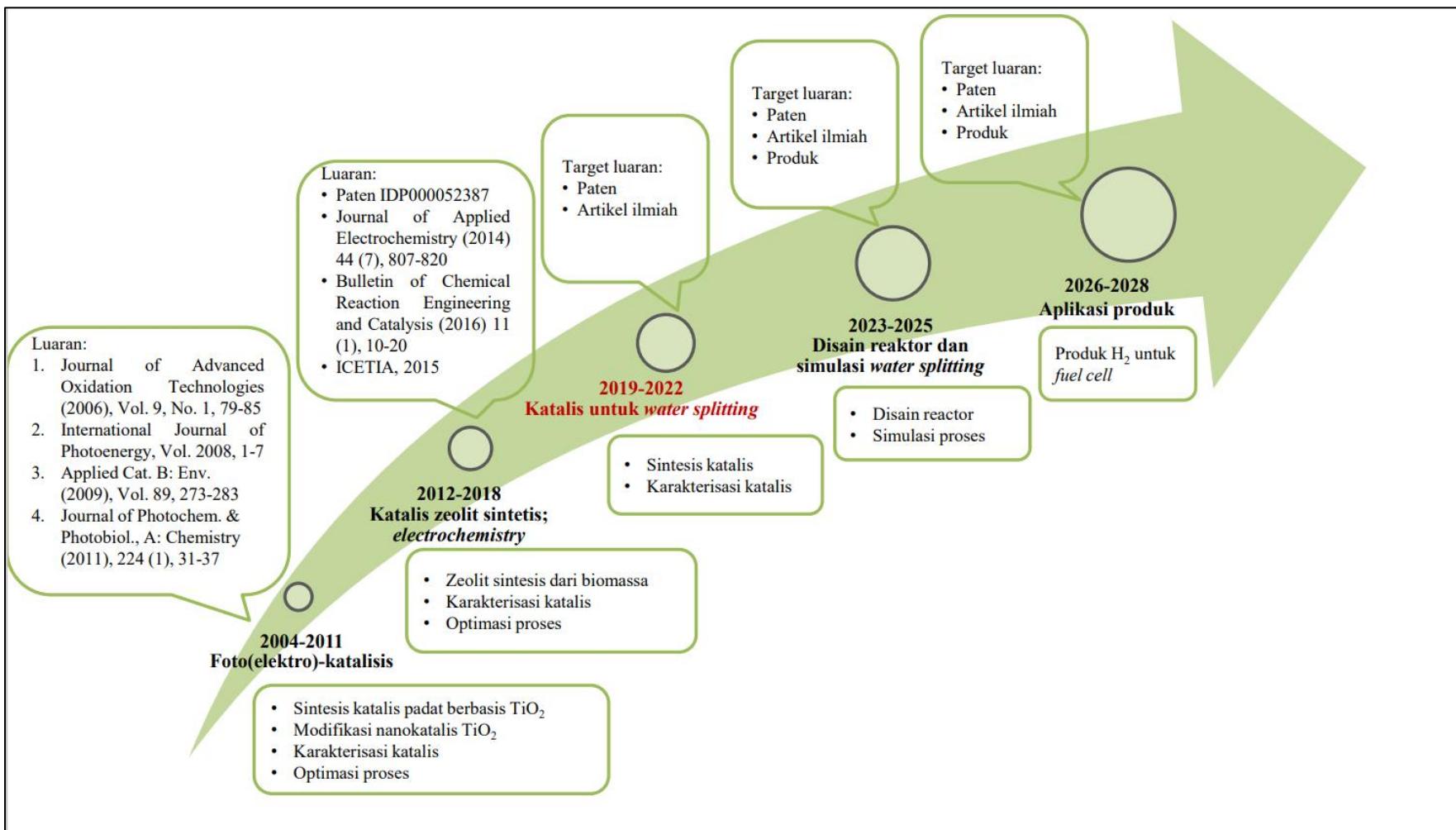
### 3. Dr. Senja Rum Harnaeni, S.T., M.T.



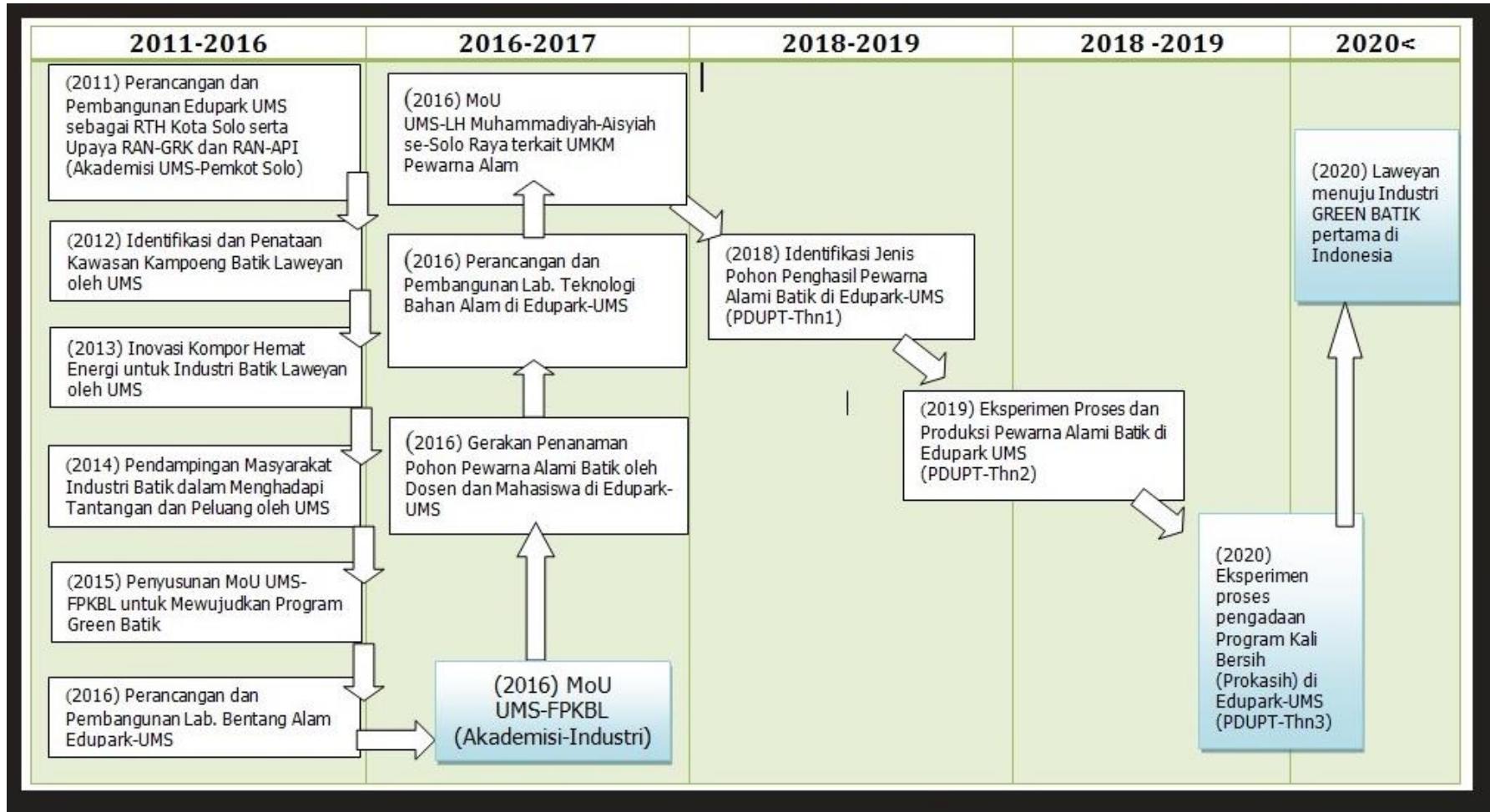
4. Hari Prasetyo, S.T., M.T., Ph.D



## 5. Ir. Herry Purnama, M.T., Ph.D



6. Dr. Ir. Qomarun, M.M.



**7. Dr. Ir. Dhani Mutiari, M.T.**

<b>EXPERIENCE AND RESEARCH THAT WILL BE DONE</b>			
Thermal	Acoustic	Year	
Implementation Wall Material of mix plastic waste for Thermal absorbent and acoustic in urban housing		2023-2025	
Experiments on Measurement of Thermal and Acoustic Comfort on Prototype Residential Houses with Wall Materials from Plastic Waste		<b>2020-2022</b>	
Utilization of Plastic Waste as auxiliary Material on thermal Absorbent Wall Materials and Acoustic.		2018-2019	
Thermal Performance on Inpatient Room Design of RS Stikes Aisyiyah Klaten		2017	
Assessments of Thermal Comfort and Indoor Air Quality in the Low-Income Dwellings		2017	
	<i>Utilization of waste of Banana Milk For Soundproof Wall Materials</i>	2016	
Healthy and Comfortable Dwellings for the Low-Income Settlements in Surakarta		2012	
Comfort Temperatures for the Low-Income Group in a Hot-Humid Climate		2012	
Thermal Comfort in the Different Settings of Low-Income Dwellings in Surakarta, Indonesia		2010	
	<i>Utilization of Coconut Fiber as Natural Material Eco-Friendly Acoustic Panels</i>	2008	

