

# UGM Students Initiate Gradual Regional Development

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The number of population in various parts of the world keeps increasing. Currently, the number of people in the world is more than 7.5 billion. Moreover, the United Nations predict those numbers will increase up to 9.7 billion people in 2050.

The increase of population leads to the increase of land requirement for residence as well as public facilities such as schools, hospitals, roads, agriculture, and plantation.

Looking at the phenomenon, three UGM students from Faculty of Mathematics and Natural Sciences who are Bagas Yusuf Kurniadi, Kusmiati, and Ibnu Muslim initiate a concept of gradual regional development. The concept development aims to solve the problem which is caused by the increase of population in urban areas. The concept which is named as *Revolution of Megacity Region Development with Gigantic Pillars* (Revollars) is developed under the supervision of Dr. Eng. Fahrudin Nugroho, S.Si., M.Si.

Team chairman, Bagas Yusuf said Revollars is a revolutionary concept of city development where the cities will be sustained by gigantic pillars. The cities that are located in the same region will be connected with fly overs which are built on smaller pillars. The lands will be built on several levels



on the main pillars while the additional lands will be built around the main pillars, supported by the smaller pillars.

“The region on the surface will be utilized as green land for agriculture, plantation, and rain forest,” said Bagas on Tuesday (8/8) in UGM.

Bagas further said the residence will be established on the next level above green land and the central city will be at the peak of the main pillar.

The location at high altitude makes its city’s structures efficient to operate wind turbine and photovoltaic for power plants. Water that flows downwards can also be used as rivers, reservoir and artificial waterfalls that are used to operate a hydroelectric power plant. This city which has all facilities will require a wide land, but with this concept, the city and its facilities can be built in a limited area of land.

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