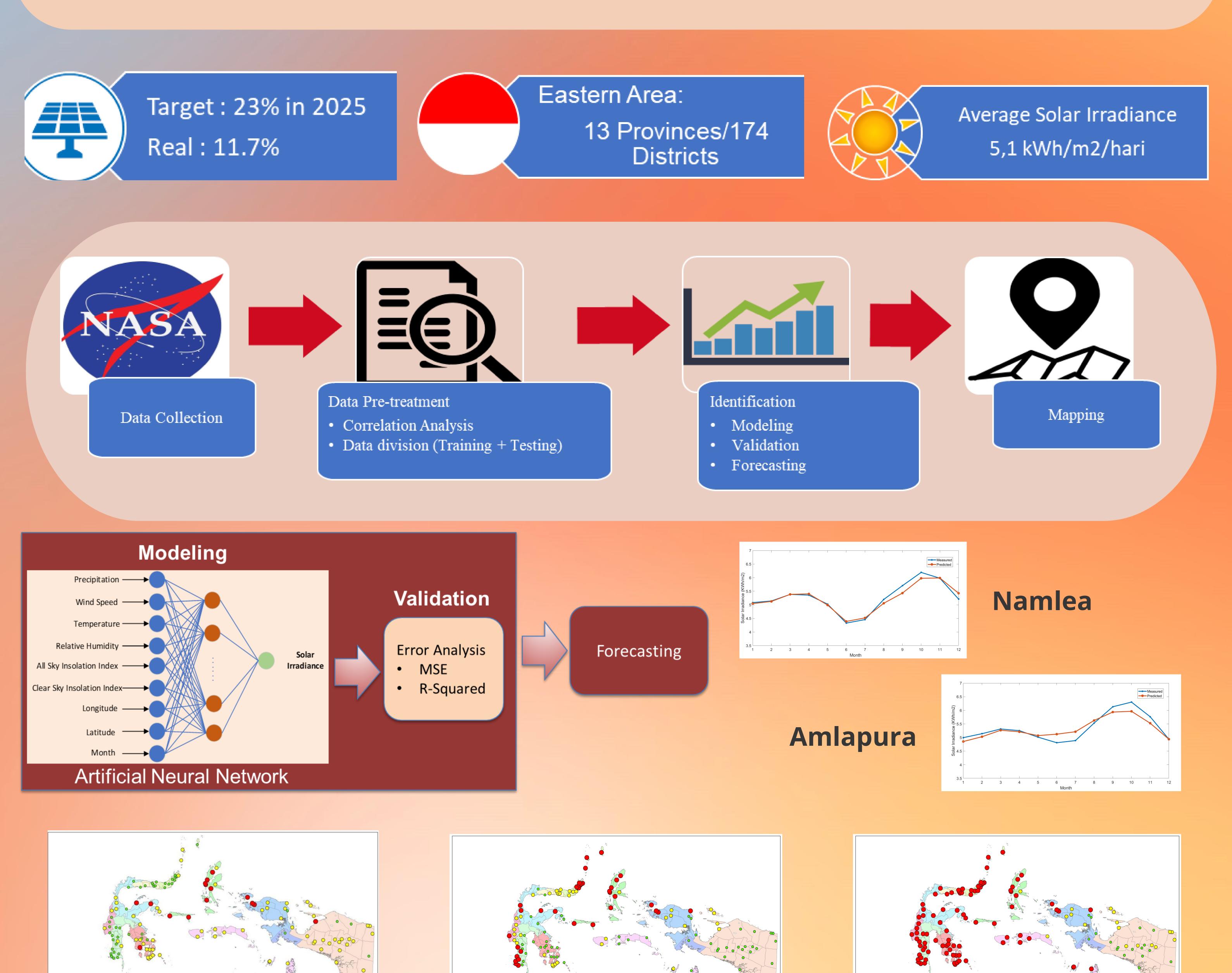
## Identification and Mapping of Solar Energy Potential In Eastern Indonesia Districts

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## Research Objectives:

To define solar irradiance model, to forecast solar energy potential, to develop solar irradiation mapping in Eastern Indonesia



The maps divided the areas into: high irradiance (>5.25 KWh/m2), medium irradiance (4.9 – 5.25 KWh/m2) and low irradiance (<4.9 KWh/m2). Maluku and Nusa Tenggara islands are consistently provide high solar irradiance during all seasons. Sulawesi and Bali island have medium to high solar irradiance level during the period of dry season (April to October). Furthermore, districts in Papua island have the low to medium solar irradiance level.

May

January

September

If medium to high irradiance level could fulfil the requirement of solar power generation, it can be concluded that at least 2/3 of areas in Eastern Indonesia are suitable to be selected as solar sites.