

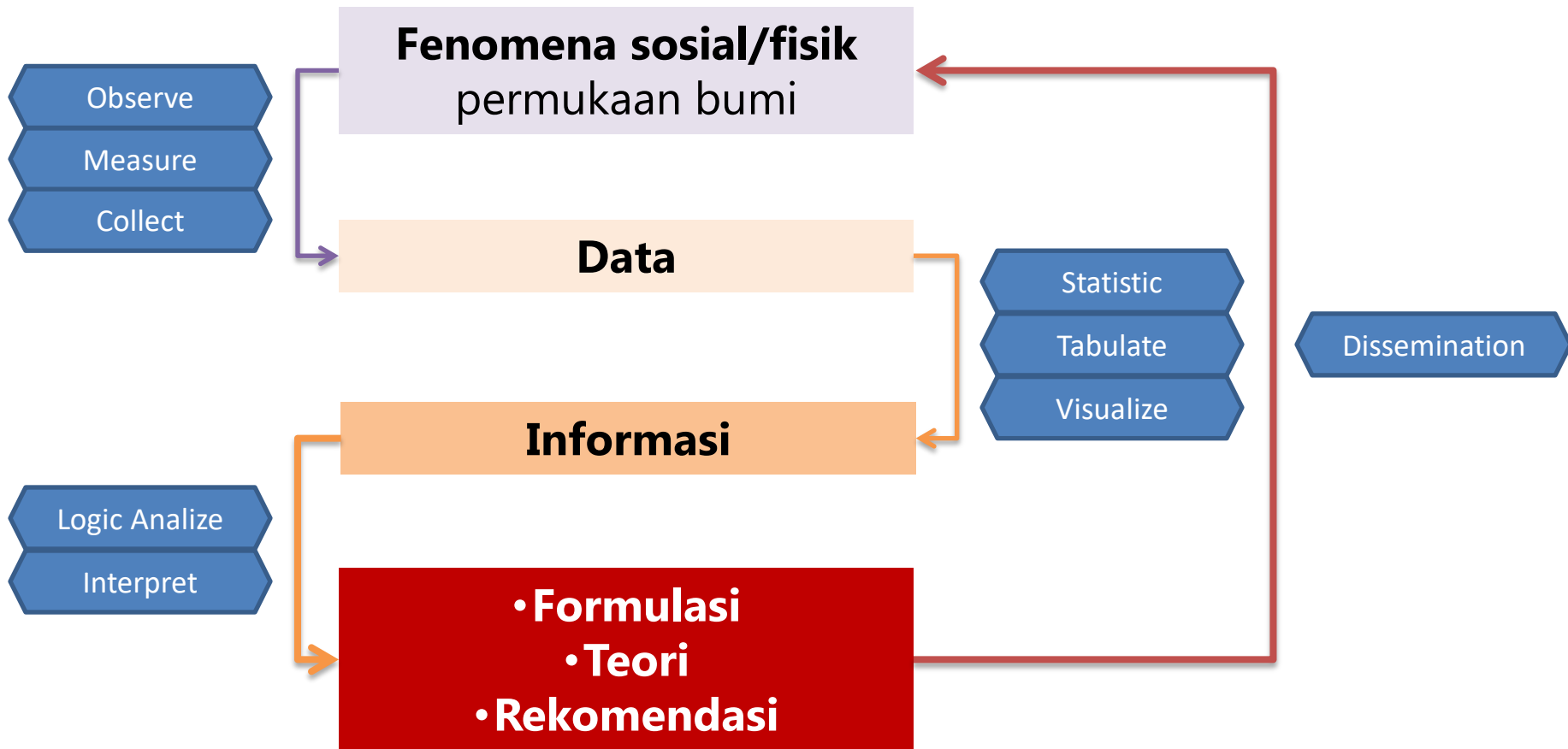


Perolehan dan Pengolahan Data Kewilayahan

Dr. Eko Budiyanto, M.Si.



Metode Sains



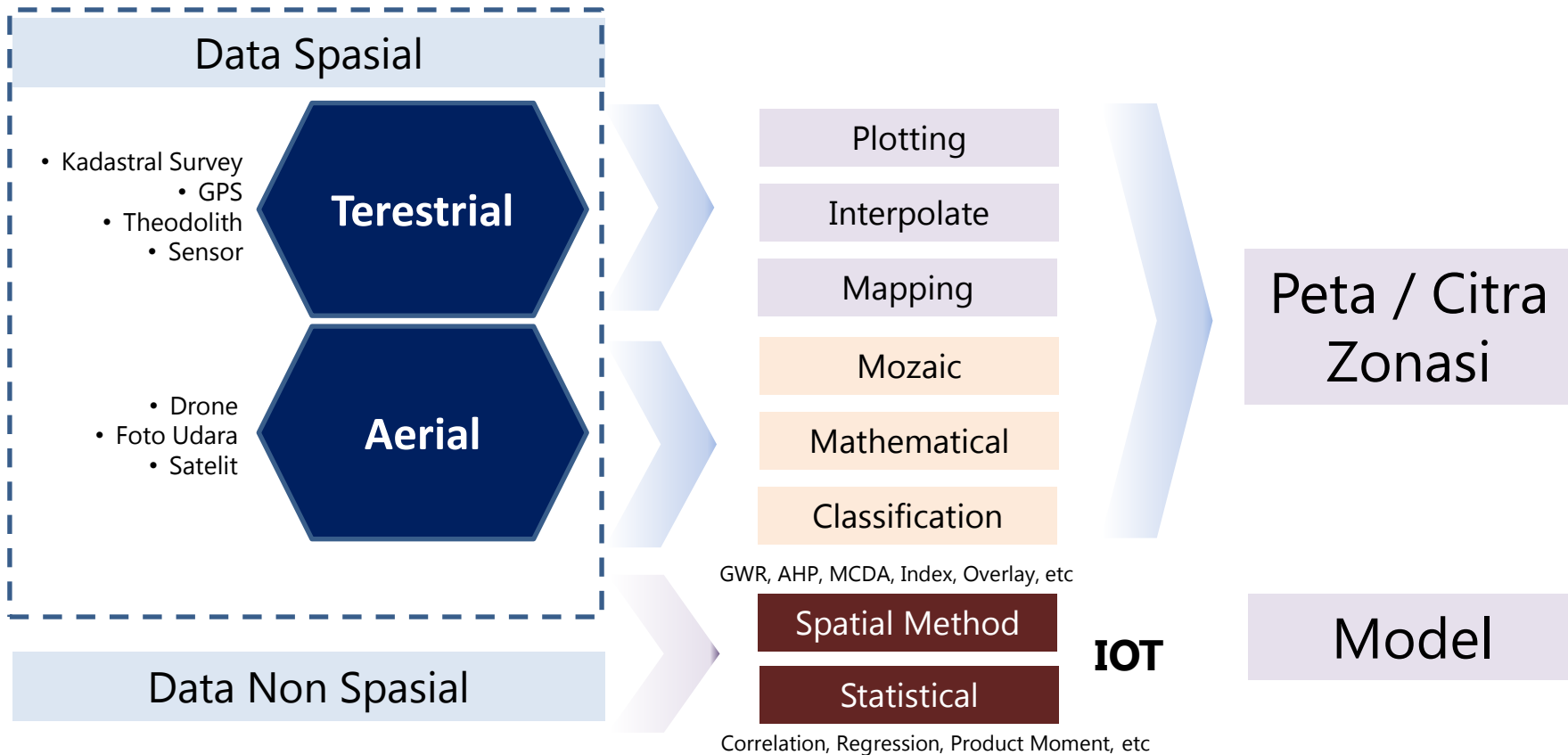


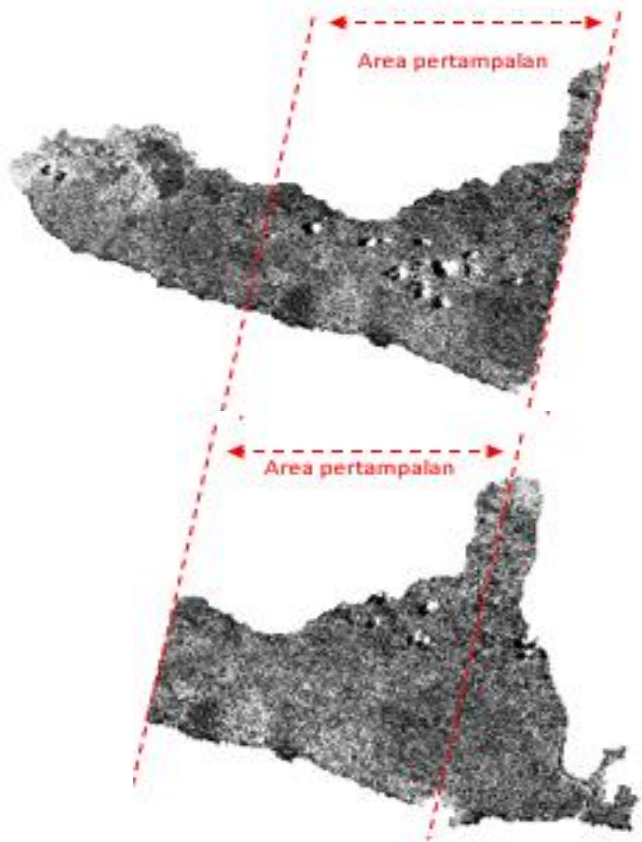
Fenomena Sosial / Fisik





Data Informasi Geografis





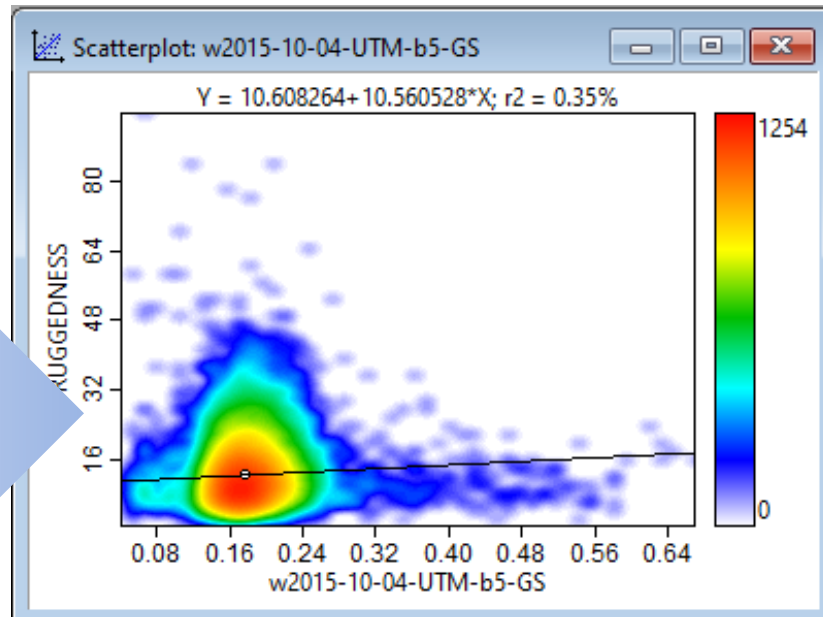
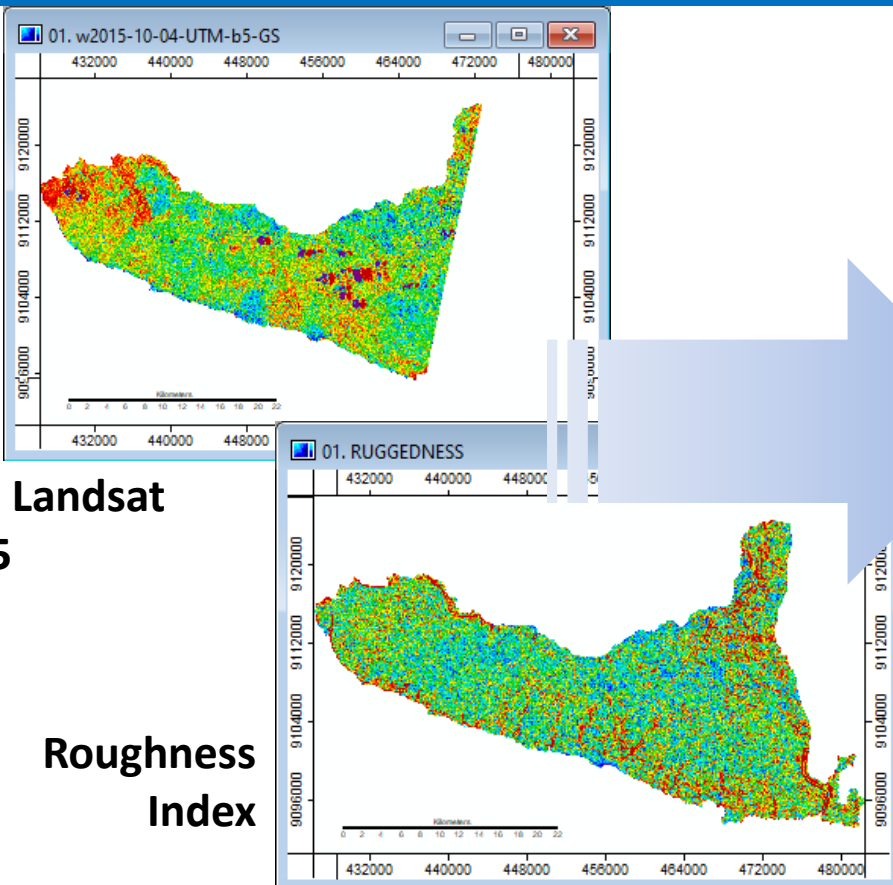
Band	Regression
Band 2	$Y = -0.014653 + 1.053567 X$
Band 3	$Y = 0.003241 + 1.056769 X$
Band 4	$Y = -0.0045632 + 1.183726 X$
Band 5	$Y = 0.054388 + 0.974324 X$
Band 6	$Y = 0.041282 + 0.962750 X$
Band 7	$Y = 0.019551 + 1.002011 X$



Korelasi Spasial

Satelit Landsat
Band 5

Roughness
Index



Korelasi spectral citra dengan kekasaran permukaan



Vulnerability Assessment Step 1

$$z1 = -2,735 + 104,670(B2) + 6,797(B5) - 0,672(IB) - 0,177(IK)$$

$$z2 = -3,078 + 86,004(B2) + 17,366(B5) - 4,268(IB) - 0,337(IK)$$

$z1, z2$: Logistic regres value

$B2, B5$: spectral band in band 2 and 5

IB : rock index

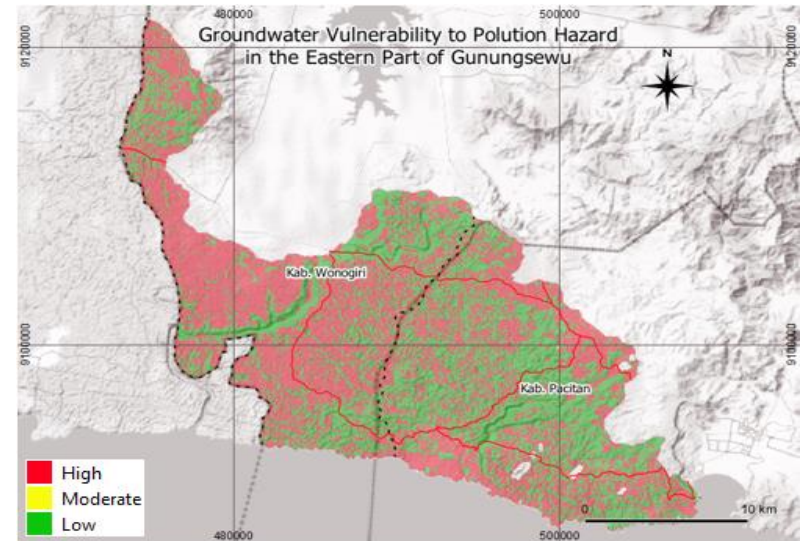
IK : roughness index

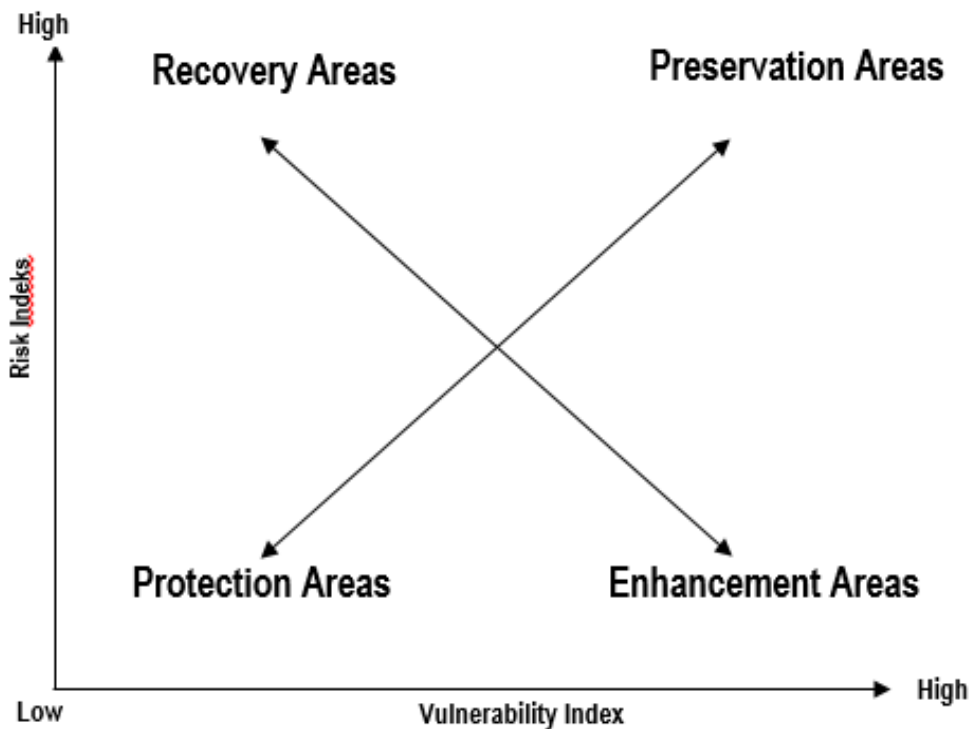


Vulnerability Assessment Step 2

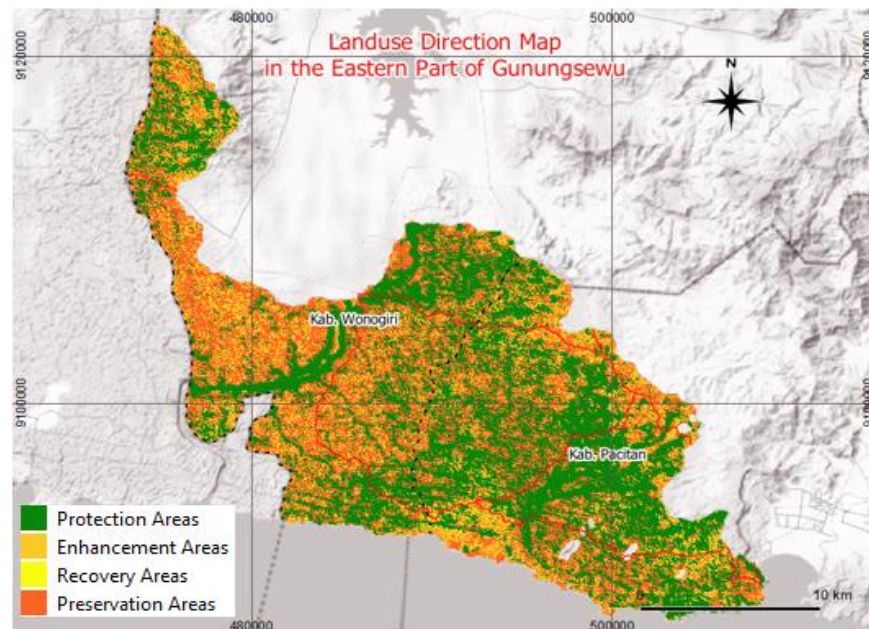
$$P(y_i = 1) = \frac{e^{z_i}}{1 + \sum_j e^{z_j}}$$

- $P(y_i)$: Logit value in the i-th category
- z_i : logistic regres value for the i-th category
- e : natural log number = 2.718





According to Republic of Indonesia Law No. 34 of 2014 concerning Land and Water Conservation



The vulnerability and risk based direction model for land use management



Sekian
lanjut pada pertemuan berikutnya