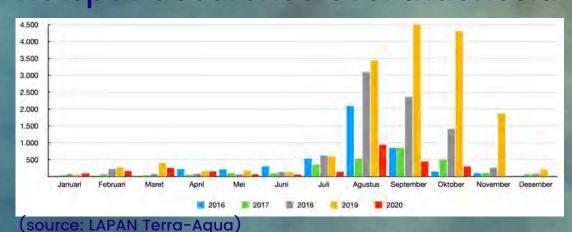


## Forest Fires Prevention



**Hotspot Occurence over Indonesia** 



Increased number of hotspots during dry season were recorded by satellite.

**National Laboratory of Weather Modification Technology** responds users in mitigating land and forest fires every year.

the timeliness of the implementation becomes a problem. The difficult of finding potential clouds in dry seasons causes the cloud seeding operation to be less effective.

**Potential** cloud development

Dry season

Lov relative humidity Relatively lov convective activity

Rarely found

Wet season

High relative humidity Relatively high convective

> Easily discoverable



**Identify Data Source** Discover available Data



**Data Analysis Understanding Data** 



**Hypothesis Validation Data Driven Decisions** 



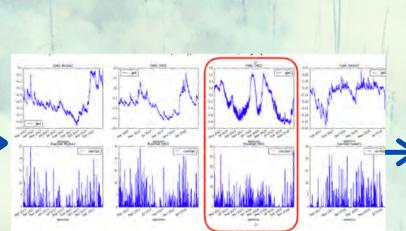
**Model Outcome** 









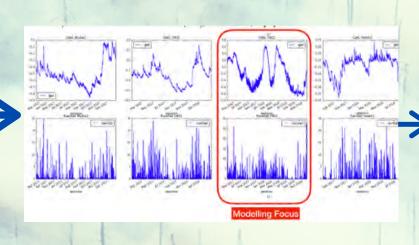


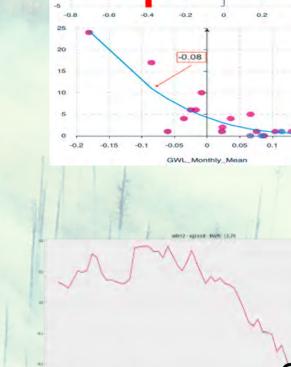




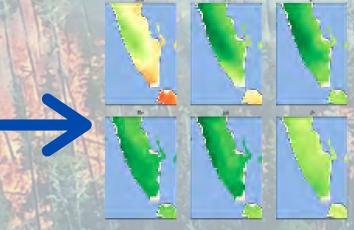






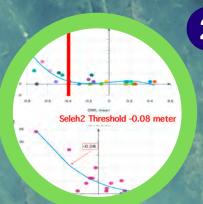








1 hotspot clustering.



ground water level & hotspot correlation analysis.



The AI implementation on the ground water level forecasting helps cloud seeding operation for rewetting peatland in order to mitigate / prevent land and forest fires.

**Contact:** Nama: Halda Aditya **Email:** halda.aditya@bppt.go.id **BBTMC - BPPT** 

planning an effective way to prevent forest fires. 3







