



Pusat Pertanian Jorak

Jorak Agriculture Centre



KEMENTERIAN PERTANIAN
DAN INDUSTRI MAKANAN



Introduction

Jorak Agriculture Centre was opened in 1975

The size of the centre is 64.9 hectare

The centre is also known as
Jorak Coconut Seed Garden

The centre produces MAWA hybrid variety
from 1985 until 2003

MATAG was produced in this Centre from
1995 to date



Objective of the Centre

Production of hybrid
coconut seeds

Production of fruits
scionwood material

Fruit trees observation
plot

Activities

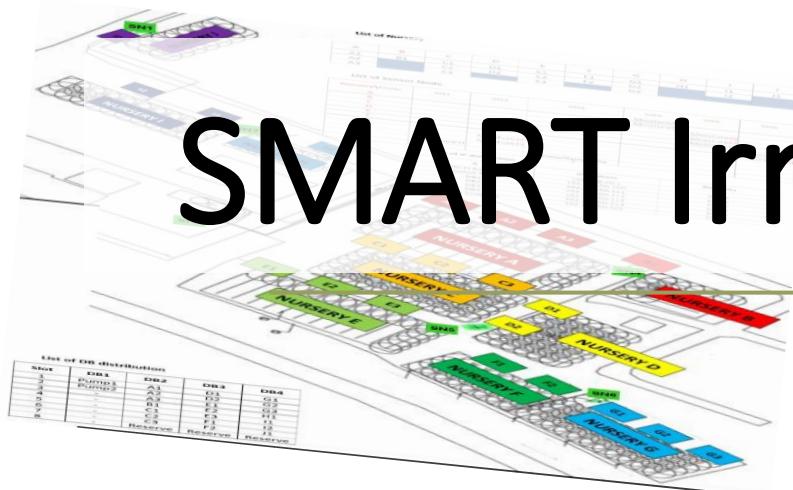
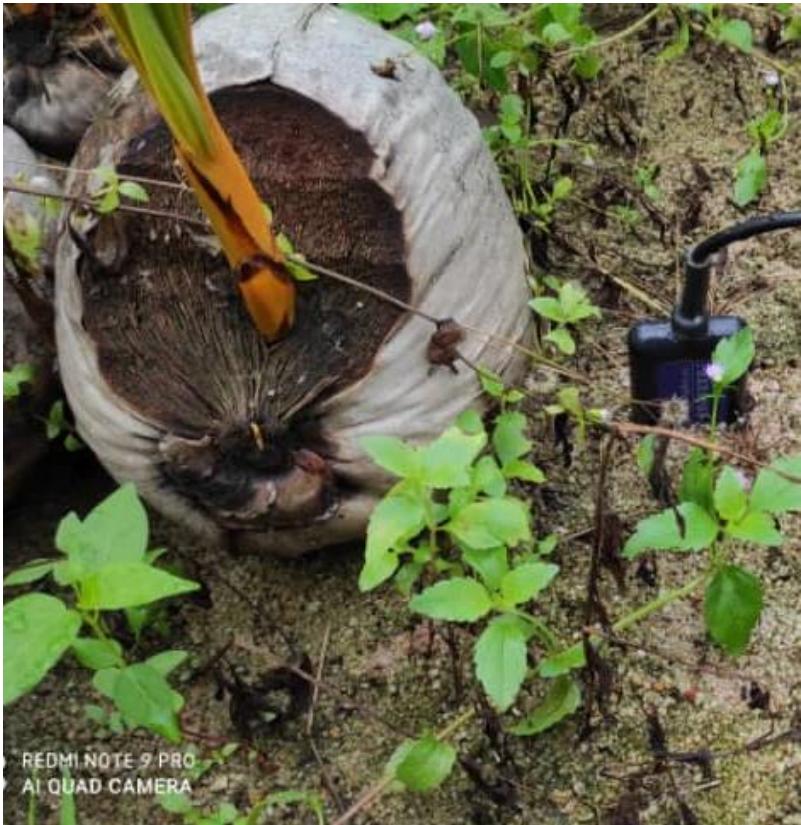
PRODUCTION OF MATAG,
MALAYAN DWARF AND
TAGNANAN COCONUT SEED

(41.24 HA)

PRESERVATION AND
MAINTAINING FRUIT TREES
IN THE OBSERVATION PLOT

(7.15 HA)





SMART Irrigation System with IOT

SMART Irrigation System with IOT

Smart Irrigation System provide an integrated IoT platform in agriculture that leverage sensors, smart gateways and monitoring systems to collect information, control various parameters on the nursery and analyze real-time data in order to make informed decisions.

These smart farming solutions ensure seeds are well nourished and watered without human intervention. The data collected from sensors are stored in the cloud and can be easily accessed using a phone, tablet or laptop. The solutions are aimed at increasing farming productivity and quality, reducing labor costs and maintaining the sustainability of the entire value chain.

Irrigation management plays a crucial role as to ensure the seeds are getting the right amount of the water at the right time. Overwatering can affect how much oxygen gets to the roots, which prevents them from growing normally.

In some cases, overwatering can also cause root rot, which may cause the crop to eventually die. Underwatering crops usually has the same outcome as overwatering. Therefore, without proper irrigation system in the farm, crops may not grow properly or could end up withering up and dying. The IoT-based farming irrigation system making it easier for growers to monitor and control water resources to meet demand.

WATER TANK



WATER PUMP



CONTROL PANEL



SPRINKLER
SYSTEM





Thank You

Ministry of Agriculture and Food Industries, Malaysia
Department of Agriculture, Malaysia