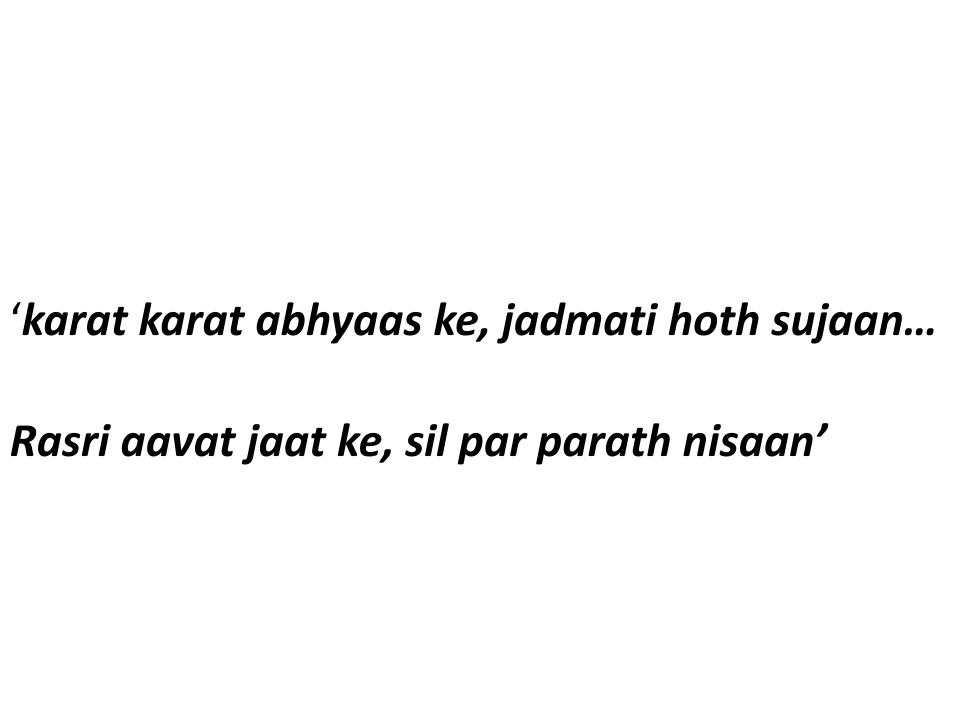


Colonel P Hani, SM



#### **ARTIFICIAL INTELLIGENCE**

"the study of the computations that make it possible to perceive reason and act"

"the automation of intelligent behaviour"

#### **SOME COMPONENTS OF AI**

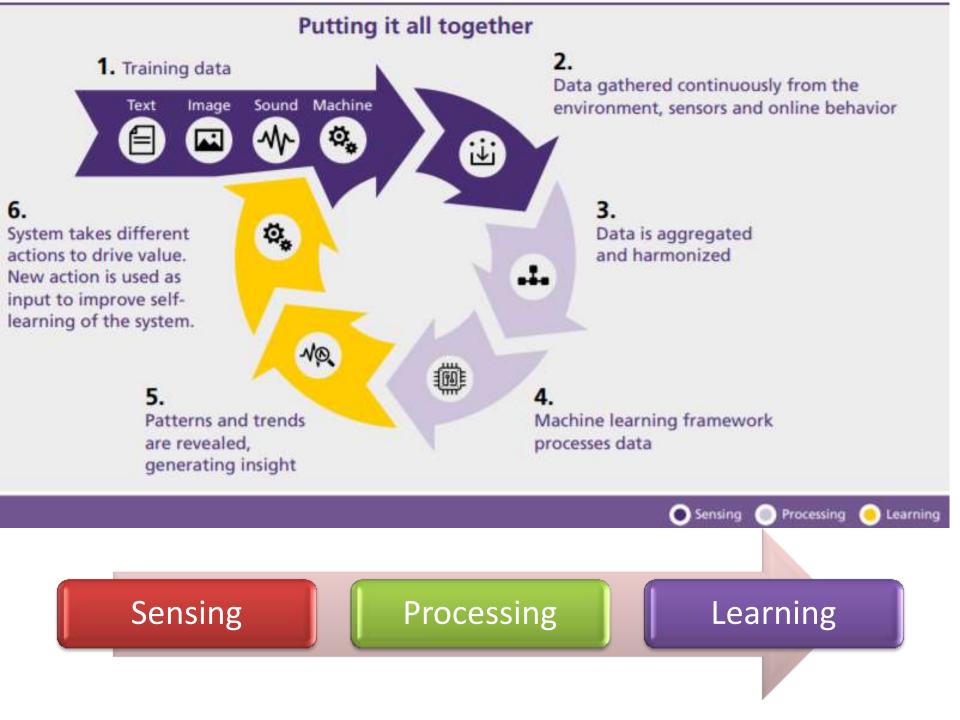
Machine Learning

**Deep Learning** 

Neural Networks

**Cognitive Computing** 

**Computer Vision** 



# India working on application of artificial intelligence to boost capabilities of armed forces

A task force led by Tata Sons chairman N. Chandrasekaran is finalising the specifics and framework of the project, which would be implemented in a 'partnership model' between the armed forces and the private sector

Last Published: Sun, May 20 2018. 03 30 PM IST

V PTI

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  A.K. Antony
- Gold mine operation in Tibetan county close to

## Why the Military?

#### FIELDS FOR AI IN MILITARY

Weapon Systems

Intelligence & Surveillance

**Decision Support Systems** 

Logistic Planning

**Cyber Operations** 

### **AIM**

## Integration of Geo and Artificial

Intelligence for Logistics Planning

#### **REASONS**

**Easily Understood** 

**Existing Models** 

Implementable

Savings

**Tooth to Tail Ratio** 

#### **USECASE DOMAINS**

**Inventory Mgt** 

Supply Chain Mgt

Transport & Fleet Mgt

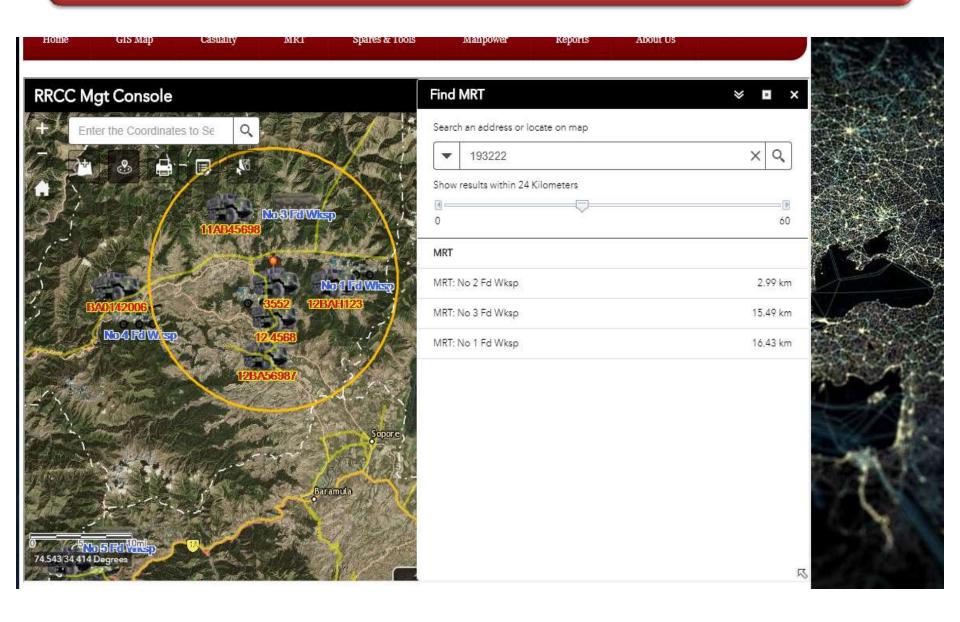
Maintenance Tasks

Field of Medicine

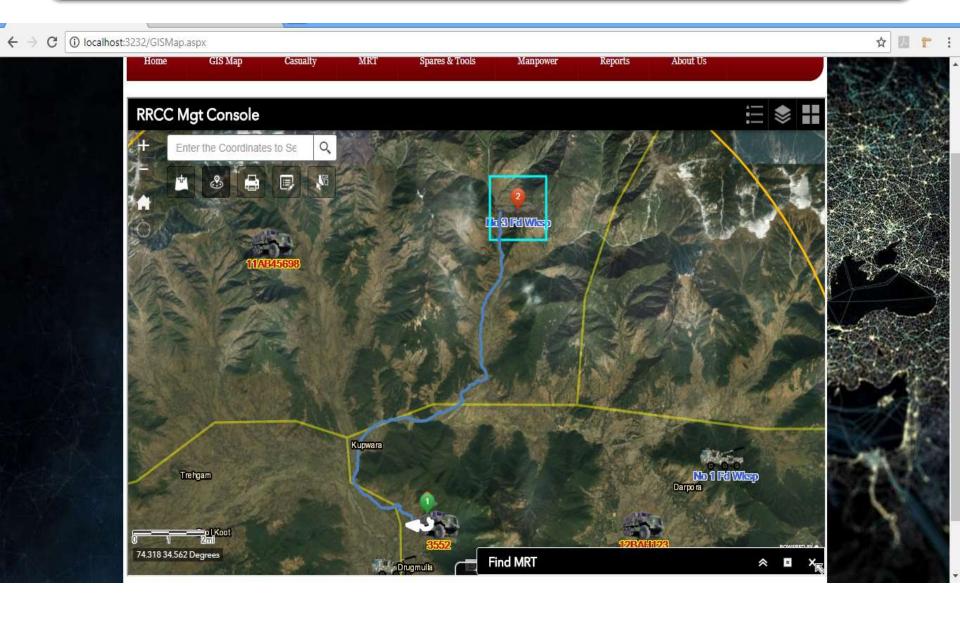
### REPAIR MGT CONSOLE

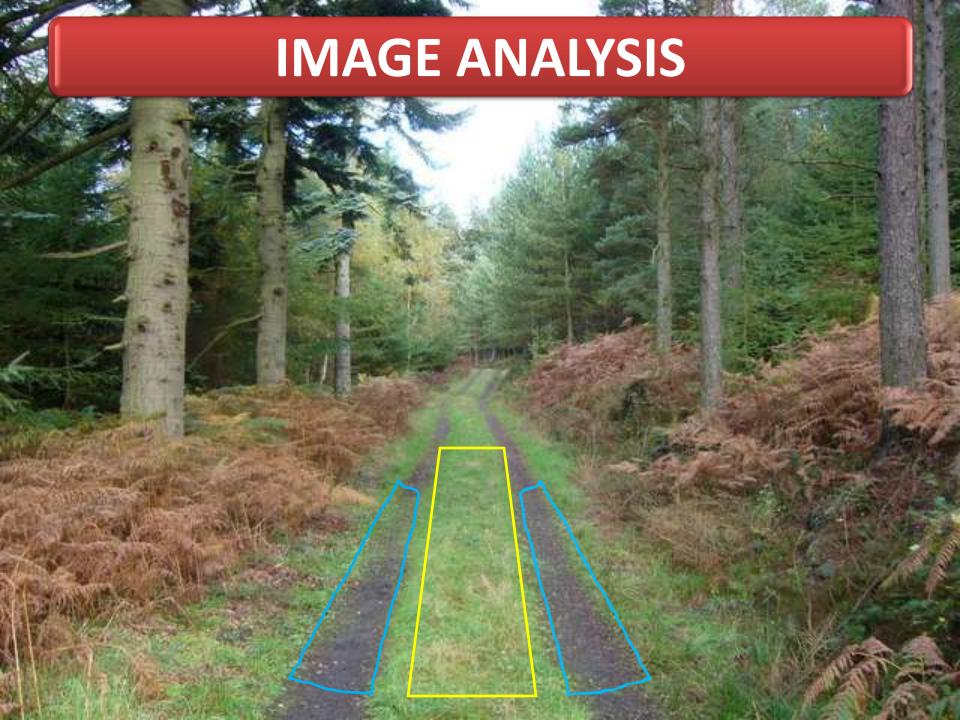


### REPAIR MGT CONSOLE



## **REPAIR MGT CONSOLE**





### **INTEG GEOSPATIAL & AI**

Intelligent Route Optimisation

Predictive Network Management

Terrain to Image mapping

**Route Anomaly Detection** 

Dynamic Changes in Vector Layers

Feedback through IoT Architecture

#### **USECASES**

Centralised System using Neural Networks

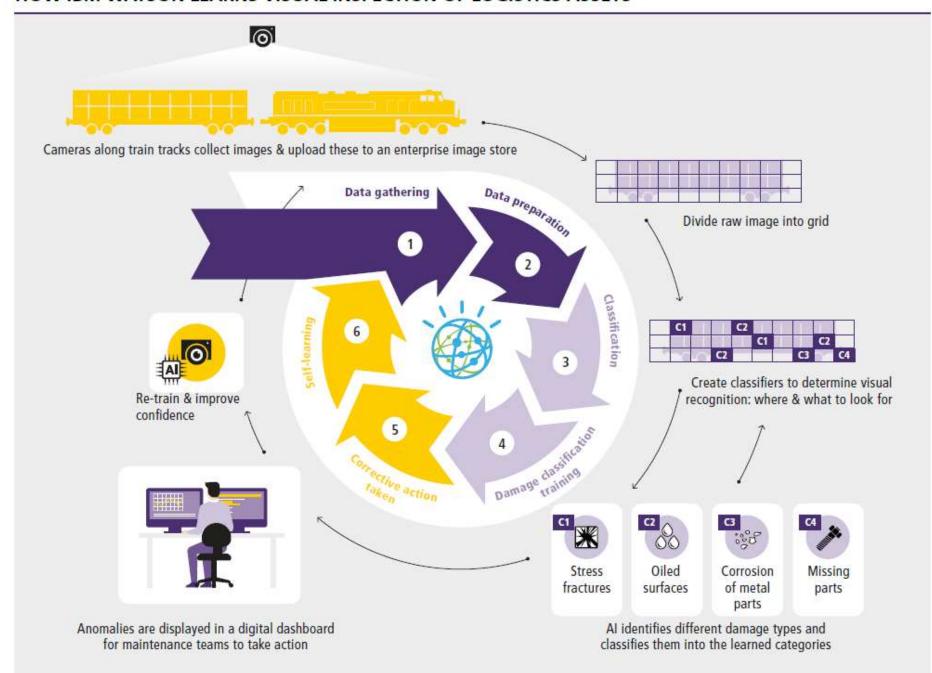
**Effective Push Models** 

**Anticipatory Logistics** 

Inventory Data Analysis

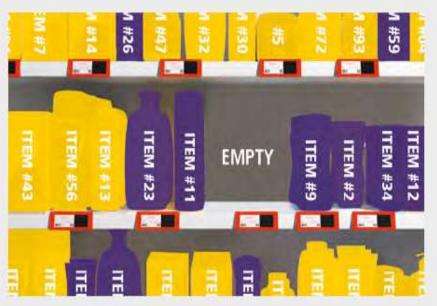
Visual Recognition for Maint Tasks

#### HOW IBM WATSON LEARNS VISUAL INSPECTION OF LOGISTICS ASSETS



#### INVENTORY MANAGEMENT USING COMPUTER VISION AI: QOPIUS





Normal 2D image of retail shelf taken with smartphone

Overlayed visualization of product and shelf insights using Qopius

#### **USECASES**

Handwriting Recog

BA Number Recog for Convoy management

Intelligent Sorting of Ammunition

**Drones for Damage Assessment** 

Cognitive Automation- Expert Assist

## Summary

Adoption of Al- a Necessity

Mil Logistics is Prime and Easiest Candidate

**Trial Evaluation of Solutions** 

Cloud

Bandwidth

# Jai Hind