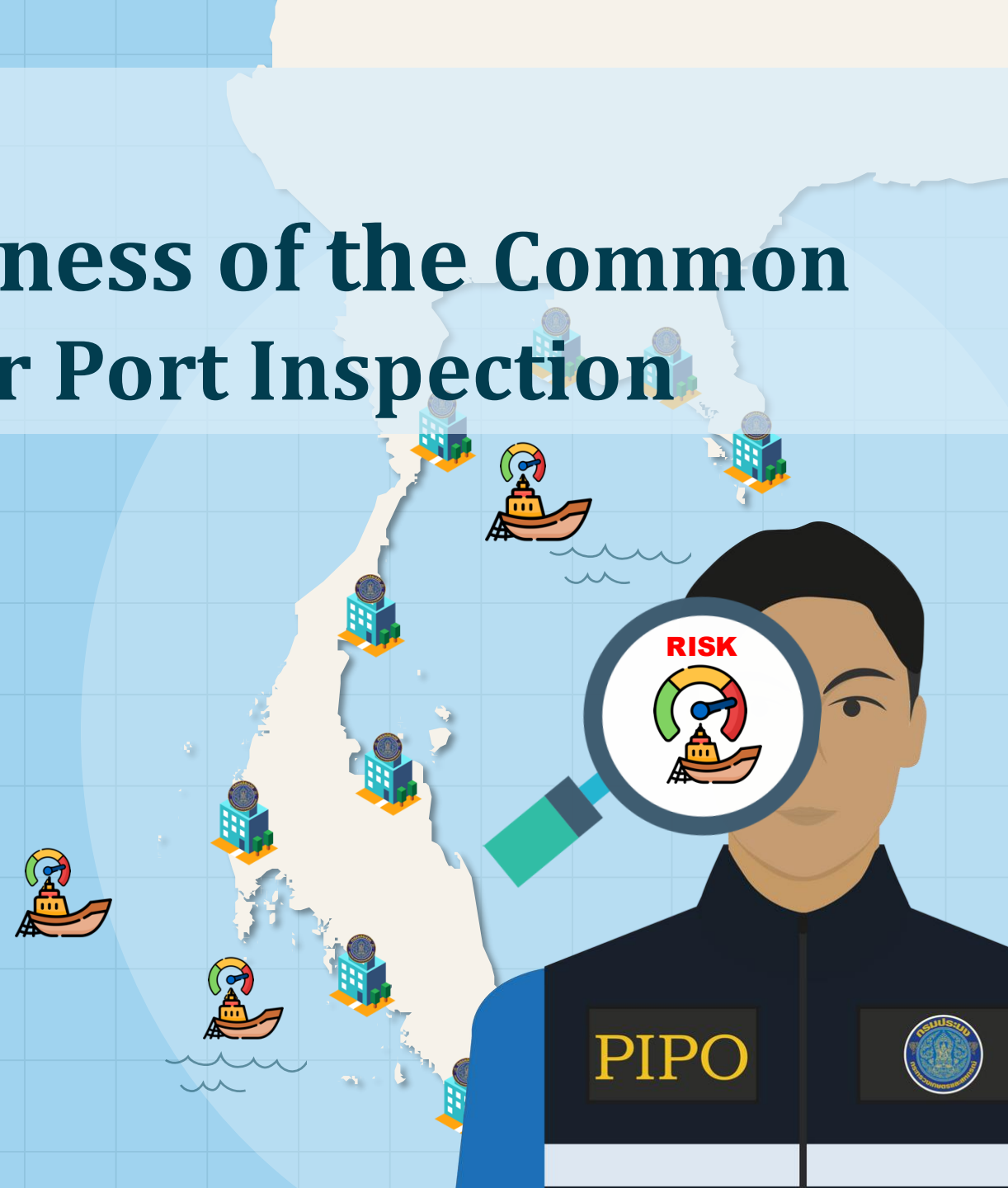


Enhancing the effectiveness of the Common Risk Assessment (CRA) for Port Inspection

Department of Fisheries, Thailand



Background: CRA



The CRA system is the system that the Thai DOF uses to select the target fishing vessels to be inspected at port, based on the determination of risk criteria.

Background: CRA



No. of notify for PI-PO : 29,828 trips/month

[Approximately 10 trips/day from No. FV 5,699 vessels]

Can not Perform 100% Port inspection



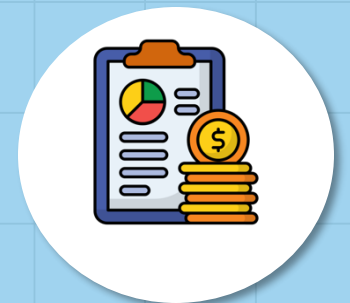
High No. Port



Officer



Transportation



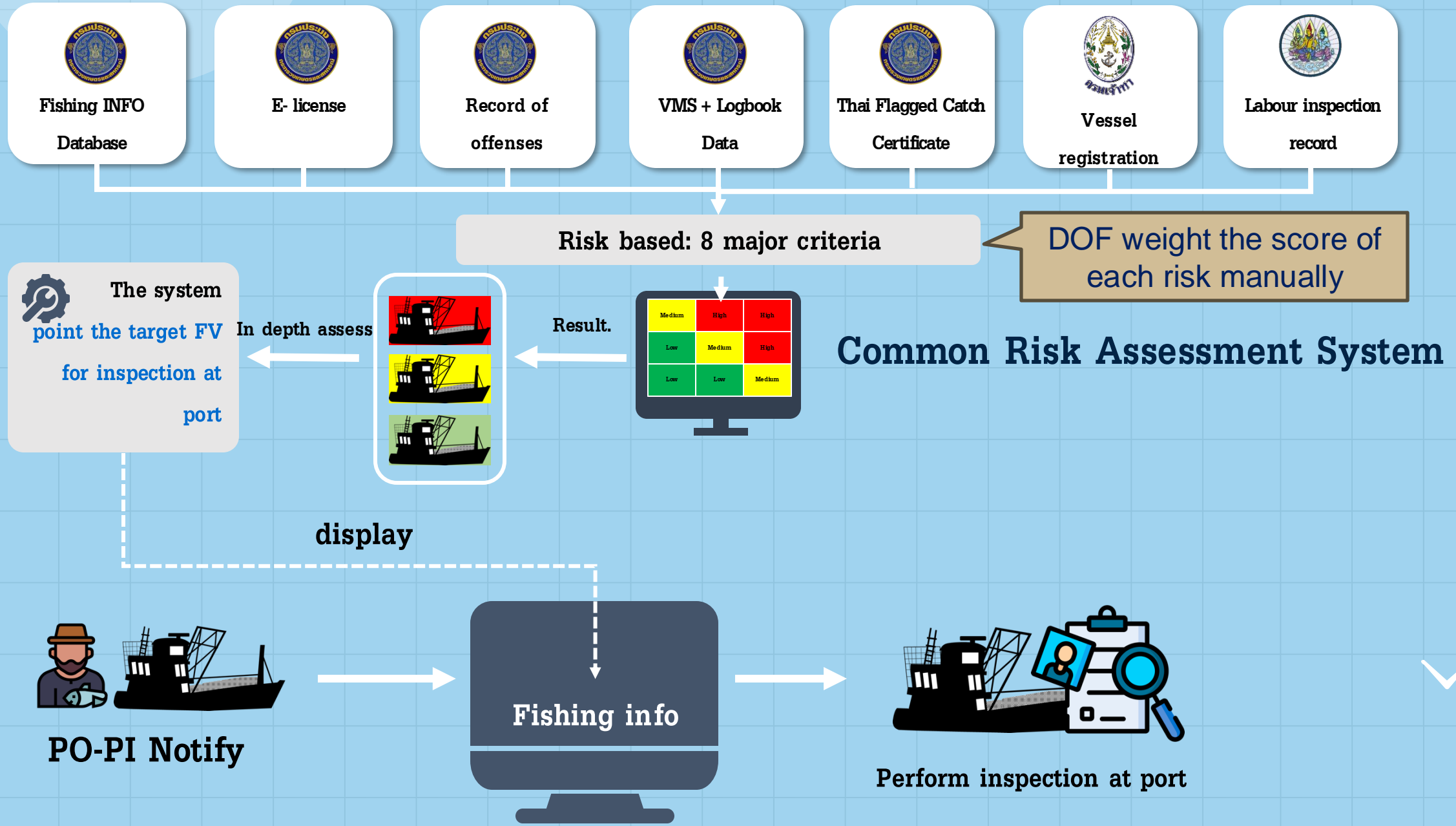
Budget

Can inspection ~70%



Standard of Inspection

Structure of current CRA



Leading to the need of improvement the CRA System



Risk based Criteria

NEW

Using Machine Learning (AI) to develop algorithms and statistical models by using the data of the past 8 years

- to predict fishing vessel risk from indicators and
- to group the risk vessels

Advantages

- Know the Accuracy score of the model [Enhance the Accuracy of the prediction]
- No need to weight the score of each risk manually [Reduce human bias]
- Easy to use / Time-saving: Leave the tough tasks to AI

