



SAI THAILAND & LESSON LEARNED ON THE USE OF DATA ANALYTICS IN FINANCIAL AUDIT

PRESENTED BY
KLEDNATEE MANOSAN, Deputy Auditor General

<https://audit.go.th/en>



THE STATE AUDIT OFFICE OF THE KINGDOM OF THAILAND

Strategy on digital transformation

The public sector auditing in Thailand is changed by the State Audit Act 2018

This Act represents the modern public sector audit, which the State Audit Commission (SAC) issues the state audit policy

digital organization

Investing in both digital infrastructure
and digital skills.

Responding to F.A.R concept

Extending idea from F. A. R. concept
toward the F.A.I.R approach

Enhancing audit work

Developing procedures to use modern
technologies more efficiently and effectively

FINANCIAL AUDIT BEFORE DATA ANALYTICS



CAATs

Computer-Assisted
Audit Techniques



Paper-based

traditional and more
difficult to perform
data analysis and
visualization

ACL

Audit Command
Language software

Covid-19 Pandemic



DOUBLE DISRUPTION



Digital disruption



IMPLEMENTING DATA ANALYTICS

Audit execution

we use data analytics to scan the entire data and extract the suspected list of transactions for additional inspection of fraud risks.



Audit Report

Data visualization can help identify and emphasize the audit findings



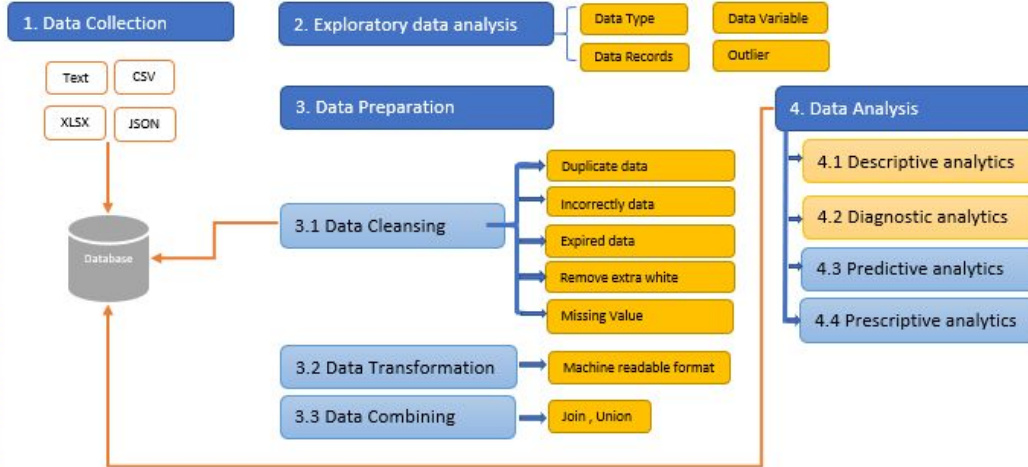
IMPLEMENTING DATA ANALYTICS

Audit Planning

- Select project
- Gather background information
- Identify risks
- Create audit program

Audit execution

Analytic Framework



Audit reporting

Data visualization

- Dashboard
- Graph, Chart
- Map

Follow up

Review corrective action plan and results

CASE STUDIES FROM THE SAO

- **The Gum lung Jai project**

- **Financial Audit System**

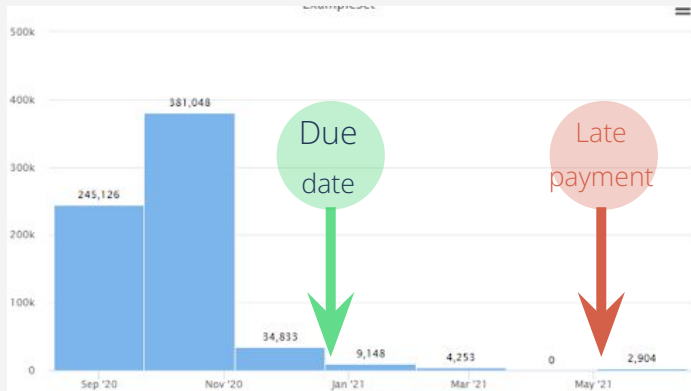


- **blended-learning and training program**

THE GUM LUNG JAI PROJECT

the government policy project which aims to promote domestic tourism and encourage the public health volunteers, who are the significant and driving group of people to support public health organizations during the COVID-19 situation

KEY AUDIT FINDINGS:



Project could not be carried out within the timeframe

กรมส่งเสริมการค้าระหว่างประเทศ
โดย กองส่งเสริมผู้ประกอบการ (กทอ.)

ออกแบบ
แพคเกจ
บ้านเที่ยว
2 วัน 1 คืน
ไม่เกิน
2,000 บาท

งบประมาณ 2,400 ล้านบาท
เกิดรายได้หมุนเวียน
อย่างน้อย 6,500 ล้านบาท

1 กรกฎาคม - 31 ตุลาคม 2563

กำลังใจ

ผ่าน
Platform
ธนาคาร
กรุงไทย

ช่วยเหลือ
บริษัทนำเที่ยว

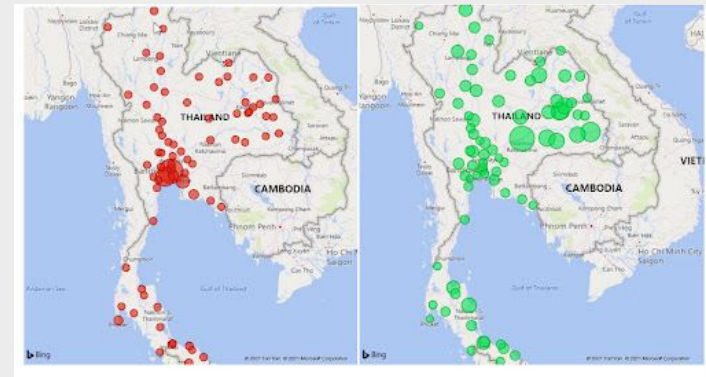
ผู้ประกอบการบริษัทนำเที่ยว
ได้รับประโยชน์จำนวน 13,000 ราย

อสม. + เจ้าหน้าที่ รพ.สต.

1.2 ล้านคน
แจ้งความจำนงค์
รับสิทธิ์ 1 คน 1 สิทธิ์

ท่องเที่ยวและศึกษา
ดูงานต่างจังหวัด

WS



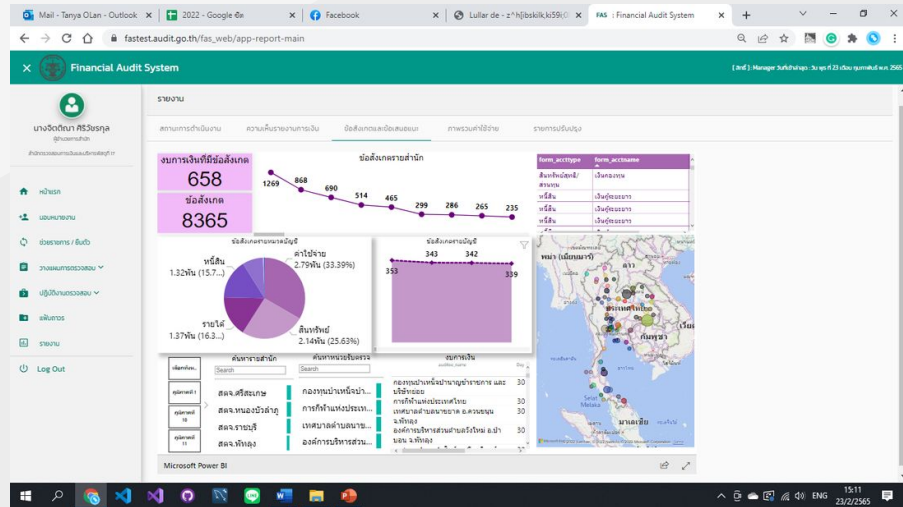
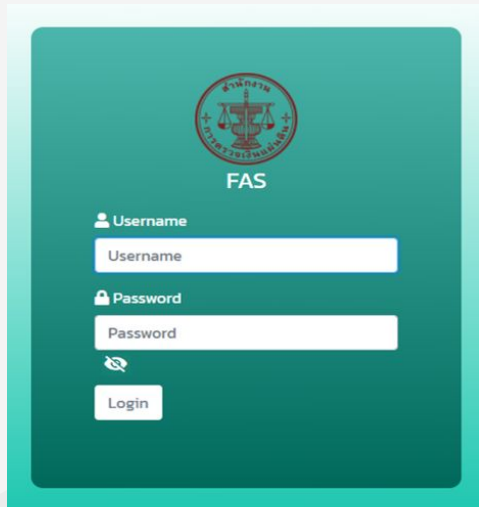
Some of the eligible participants did not reside in the area affected by COVID 19

FINANCIAL SYSTEM

AUDIT

Implementing the audit of paper-based financial report to digital-based financial report

The auditors can store essential data in a format that would be easily exchanged or retrieved, or implementing some digital technologies those could be used to properly analyze these data in the audit



BLEND-ED-LEARNING AND TRAINING PROGRAM

under the SAO's strategy from 2019 to 2022

to develop the auditors' data analytic skills in financial audit on the fundamental level,
which are Descriptive Analytic - Diagnostic Analytic

Phase 1

To educate auditors to
build up knowledge
and understanding



Phase 2

To sharpen skills
through practicing.



Phase 3

To learn the advanced
skills for practical use
in the real audits.



BENEFITS OF USING DATA ANALYTICS

the use of digital technologies especially data analytics to help in auditing and additionally in the audit reporting, data visualization and as following;

1. Being able to monitor work status from different audited entities daily or Near real-time to keep track on the works



2. Visualizing the data in different areas



3. Comparing yearly statements which help us notice the trend of changes of audited entities including the horizontal and vertical analysis



4. Presenting the overview list of adjustments in each accounts and categories



These data would be used by the auditors in the audit process which help shortening both planning and audit execution steps efficiently, and help in specifying audit guidelines and eliminating the root cause of the issue effectively

BEHIND OUR SUCCESS STORY

State Audit policy and strategic
plan



Prepare for the challenge the digital revolution and improvise new tools and methods to support the audit work

Adoption of the Moscow
Declaration

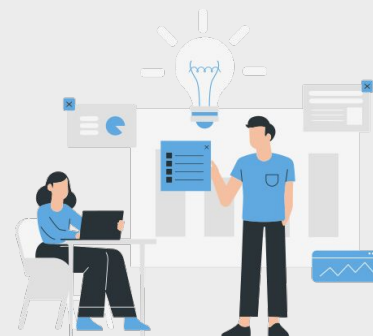


Significance of the Auditor of the future and the public sector audit in the digital transformation era

Bangkok Declaration 2021



Leverage using advanced technologies as an opportunity to develop the public sector auditing and those SAs should be prepared for the digital transformation in the next normal



THANK YOU

OFFICE



The State Audit Office of the
Kingdom of Thailand



int_rela@oag.go.th



www.audit.go.th
