DATA SCIENCES
IN SERVICE

FERENC **VÁGUJHELYI**

COMMISSIONER
FOR THE NTCA, HUNGARY

National Tax and
Customs Administration

DIGITAL TRANSFORMATION
BASED ON DATA

DATA
COLLECTION

DATA
ANALYSIS

DECISIONS
BASED ON DATA

**DATA ANALYSIS
OPENS
NEW PERSPECTIVES**

customers' behaviour

innovative possibilities

personalised contact

deviancy screening

automated processes

fewer errors

freed up human capacity

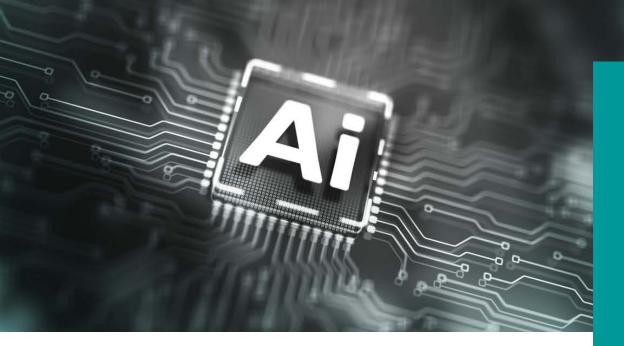# THIS IS A MARATHON, NOT A SPRINT.

data management practice

data protection

security

utilization of new technologies

value creation

ARTIFICIAL INTELLIGENCE IN DATA ANALYSIS

model creation

fast, real-time processing and analysing of large amount and variety of transaction data
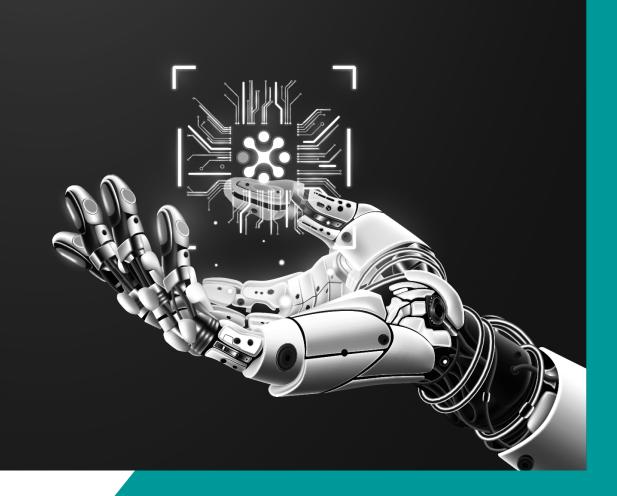
detection of typical and unusual phenomena

continuous search for correlations

human expertise is vital

NTCA'S ARTIFICIAL INTELLIGENCE WORKING GROUP (AIWG)

- **February 2022**
  Government decree

- Sinergy of scientific methodologies and taxation experiences

NTCA'S ARTIFICIAL INTELLIGENCE WORKING GROUP (AIWG)
Cooperation on data utilization

BM – MÁK – NAV
(Ministry of Interior – State Treasury – NTCA)

SE EKK
(Faculty of Health and Public
Administration of Semmelweis University)

HUN-REN Központ
(HUN-REN Hungarian Research Network)

MNB
(National Bank of Hungary)

AIWG'S
RESEARCH
PROJECTS

Freight transport control on borders:
AI detection of X-ray images

Analysis of online cash register data

Categorisation of online invoice items

Examination of unusual invoice data

AIWG'S
RESEARCH
PROJECTS

Identification of the main activity of enterprises

Identification of auditors', accountants' clients

Estimate of administrative costs based on accounting, payroll, consultancy invoice data, social security contributions data

National Tax and
Customs Administration

www.nav.gov.hu