



AI Management System Certification

ISO 42001:2023

About **US**



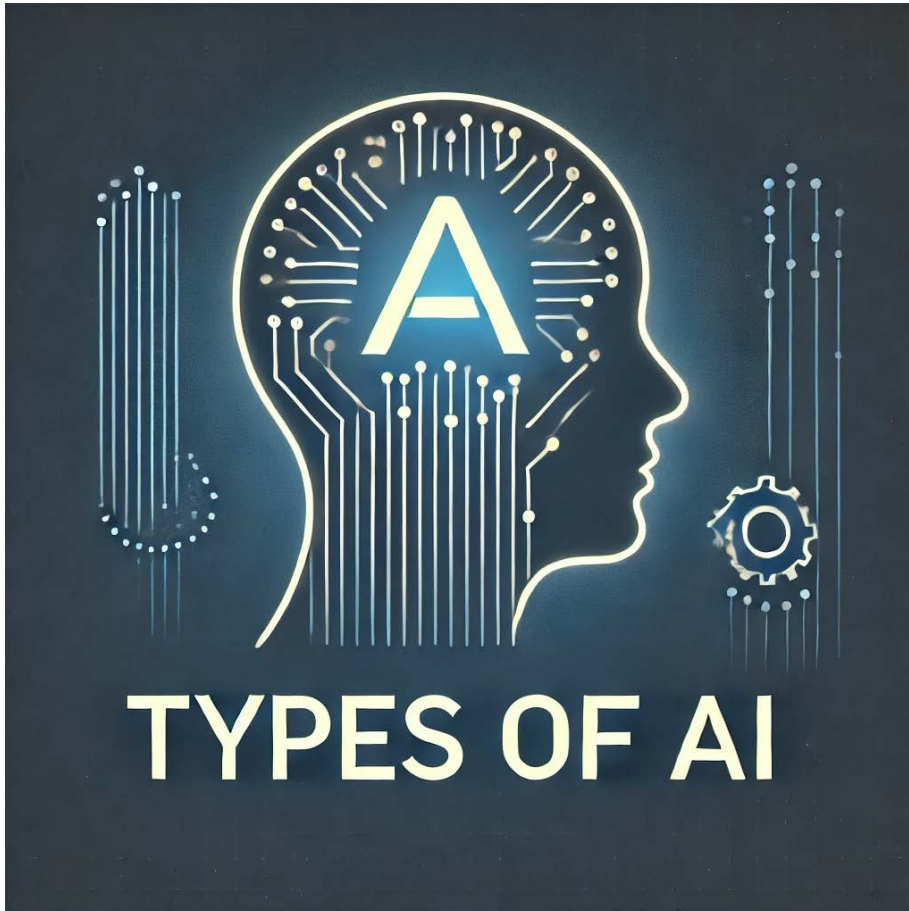
- Experts in the fields of **Inspection and Certification** services **since 2000**
- More than **150 professional engineers** as full-time employees
- Represented in more than **20 counties**, including:
 - **SWITZERLAND**
 - **GREECE, CYPROUS & ITALY**
 - **UNITED ARAB EMIRATES**
- Recently **ISO 42001 Accredited!**

Artificial Intelligence

Artificial Intelligence (AI) is a broad field that refers to computer systems that can perform tasks that usually require human intelligence

AI systems use **data, algorithms, and computational power** to simulate human intelligence, enabling machines to learn complex patterns and produce outputs that can match human performance

Artificial Intelligence



Narrow AI: A narrow AI system is capable of solving a specific, well-defined task

General AI: A General AI is capable of solving a broad range of tasks, with abilities similar to a human

AI Management System



AIMS is the set of activities to establish:

- **AI vision**
- **AI objectives**
- **Processes** to achieve the AI objectives

AI Management System Objectives



- **Effectiveness:** Is the AI system achieving intended results?
- **Fairness:** Is the AI fair or it is biased?
- **Transparency:** Can the organization explain why did the AI took one decision over the another?

AI Bias

‘AI bias, refers to the occurrence of biased results due to human biases that skew the original training data or AI algorithm—leading to distorted outputs and potentially harmful outcomes.’

<https://www.youtube.com/watch?v=L2sQRrf1Cd8>

Introduction to ISO 42001:2023



- Published in 2023, ISO 42001 is the **first AI management system standard**
- ISO 42001 provides guidance for **establishing, implementing, maintaining** and **continually improving** an AI management system
- The aim is to **help businesses and society** get the most benefit from AI and **reassure stakeholders** that their systems are being developed responsibly

Who can be **ISO 42001** Certified?



Any organization that **provides** or **uses** products or services that **utilize AI systems** can be certified according to ISO 42001, especially:

- **High risk AI systems**
- **Medium risk AI systems**
- **Low risk AI systems**

Who can be **ISO 42001** Certified? – Risk Category According to the **EU AI Act**

High Risk AI	Limited Risk AI	Minimal or No Risk AI
These AI systems are permitted but are subject to strict regulations and compliance requirements. These systems make decisions that have an impact on human lives	These AI systems are not considered high-risk but still require some form of regulation, particularly around transparency	AI systems that fall under this category pose little to no risk to users and are generally exempt from regulation under the AI Act
Face Recognition System Bank Loan Approval Medical Prescription Medical Imaging Analysis CV-sorting	Chatbots Virtual assistants AI-generated content	AI enabled video games Spam filters

Why Become Certified ?



- **Mandatory for companies seeking government contracts**
- **Trust and credibility with stakeholders**
- **Reduce the risk of legal challenges**
- **Operational excellence via continual improvement**
- **Competitive Advantage**

Why **Swiss Approval**?

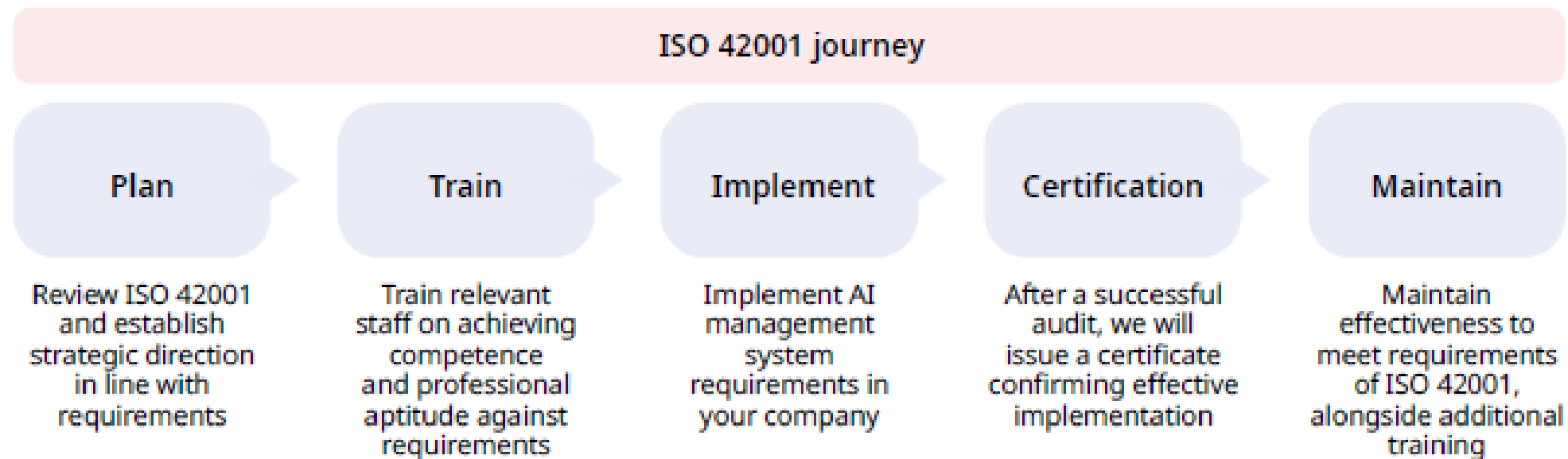
SWISS APPROVAL'S AI VISION:

‘To promote the responsible adoption and application of AI for the benefit of society ’

Why **Swiss Approval**?

- We are among the very few **Accredited Certification Body's** to ISO 42001:2023
- We are at the forefront of AI development, constantly updated on new regulations and standards
- We employ and cooperate with a network of AI experts
- We employ experienced, competent auditors who undergo frequent trainings in new standards and frameworks, such as ISO 42001

The Certification Journey





Thank you for your attention!