



TRAILS

**Enabling Data Analytics for Actions
Tackling Skills Shortages & Mismatch**

GENERAL INTRODUCTION

2024

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101132673



Funded by
the European Union



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ABOUT TRAILS

TRAILS seeks to build on current data in skills mismatches and create novel tools and databases for measuring and classifying skills mismatches, using cutting-edge technologies like machine learning and AI.

It will empower VET and ALE centres to be able to match employees with educational opportunities, addressing skills gaps.

DURATION: January 2024 - January 2027 (36M)

FUNDING: Co-funded by the European Union under the Horizon Europe Research and Innovation Programme, Thematic Priority “Innovative research on social and economic transformations.”




PARTNERSHIP

	<p>Democritus University of Thrace (Coordinator) Greece</p>
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	<p>European Association of Regional & Local Authorities for Lifelong Learning (EARLALL) Belgium</p>
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	<p>Università Degli Studi Di Napoli Federico II Italy</p>
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	<p>IPSOS NV Belgium</p>
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	<p>The Economic And Social Research Institute Lbg Ireland</p>
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	<p>SKILLLAB BV The Netherlands</p>
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	<p>Tilburg University- Universiteit Van Tilburg The Netherlands</p>
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	<p>Aristotle University of Thessaloniki Greece</p>
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TRAILS motivation is driven by the:



urgent recognition of skills mismatch as a multidimensional challenge affecting productivity, social welfare and overall cohesion



changing labour market requirements triggered by several external trends and shocks, such as the pandemic COVID-19 pandemic or the energy crisis.



the need to allocate work efficiently, minimise unemployment and fill the skills gaps created by the "great restructuring".



OBJECTIVES

01

Generate novel European primary survey data

02

Create a novel framework of analysis for identifying the main causes of labour shortages

03

Enable new instruments and indicators based on Machine-Learning and Big-Data methods

04

Develop new instruments of balanced training

05

Initiate and improvise upon a bottom-up approach to identify the determinants of education & training choice, and enable skills profiling

06

Assess the role of behavioural, social and cultural factors in the decision for participation and choice of VET & AL programmes

07

Enable wide communication and scientific dissemination of the innovative results

TRAILS ARCHITECTURE

(Working package level)

Supportive and preliminary actions

- **WP1** - State-of-the-art, research and tools requirements (**UNINA**)
- **WP2** - Data management and survey design (**IPSOS**)

Core analysis and research results

- **WP3** - Changing technology, mismatching and on-the-job training (**UNINA**)
- **WP4** - Using machine learning for matching skills to needs (**ESRI**)
- **WP5** - New skills, skills bundling and labour market mobility (**AUTH**)



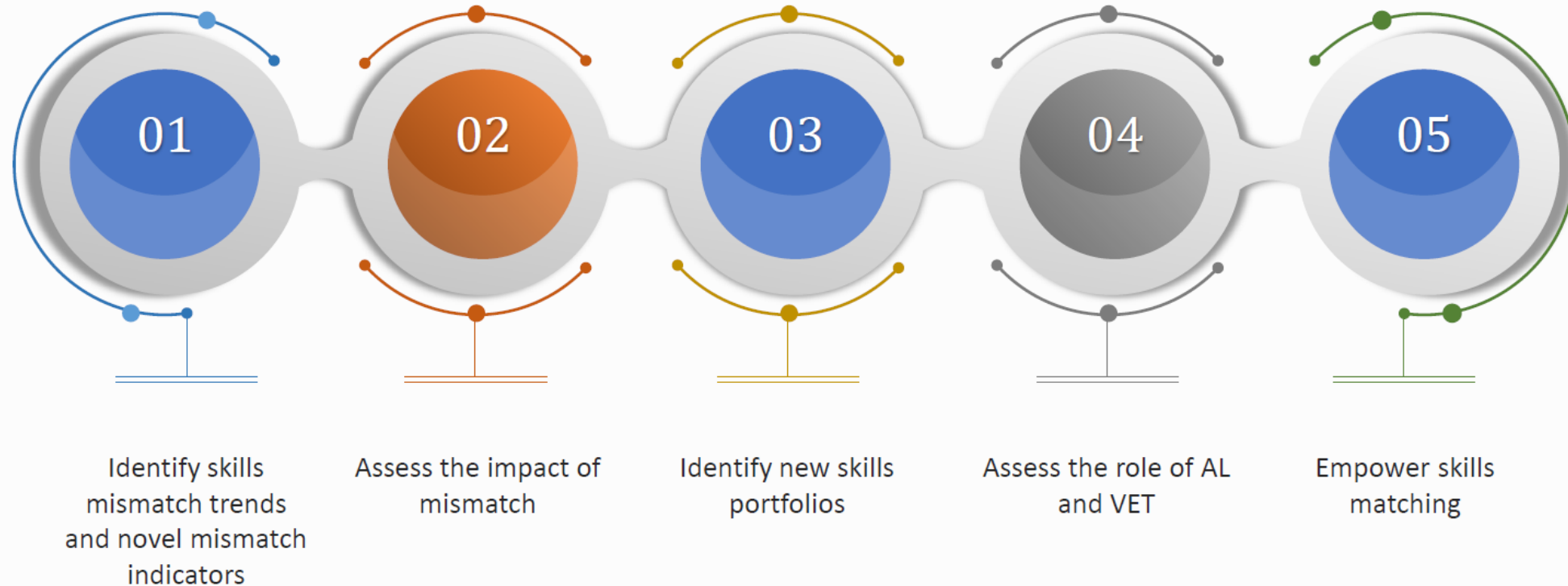
Impact and policy actions

- **WP6** - Dissemination & Business Planning (**EARLALL**)
- **WP7** - System Design and Integration (**DUTH**)

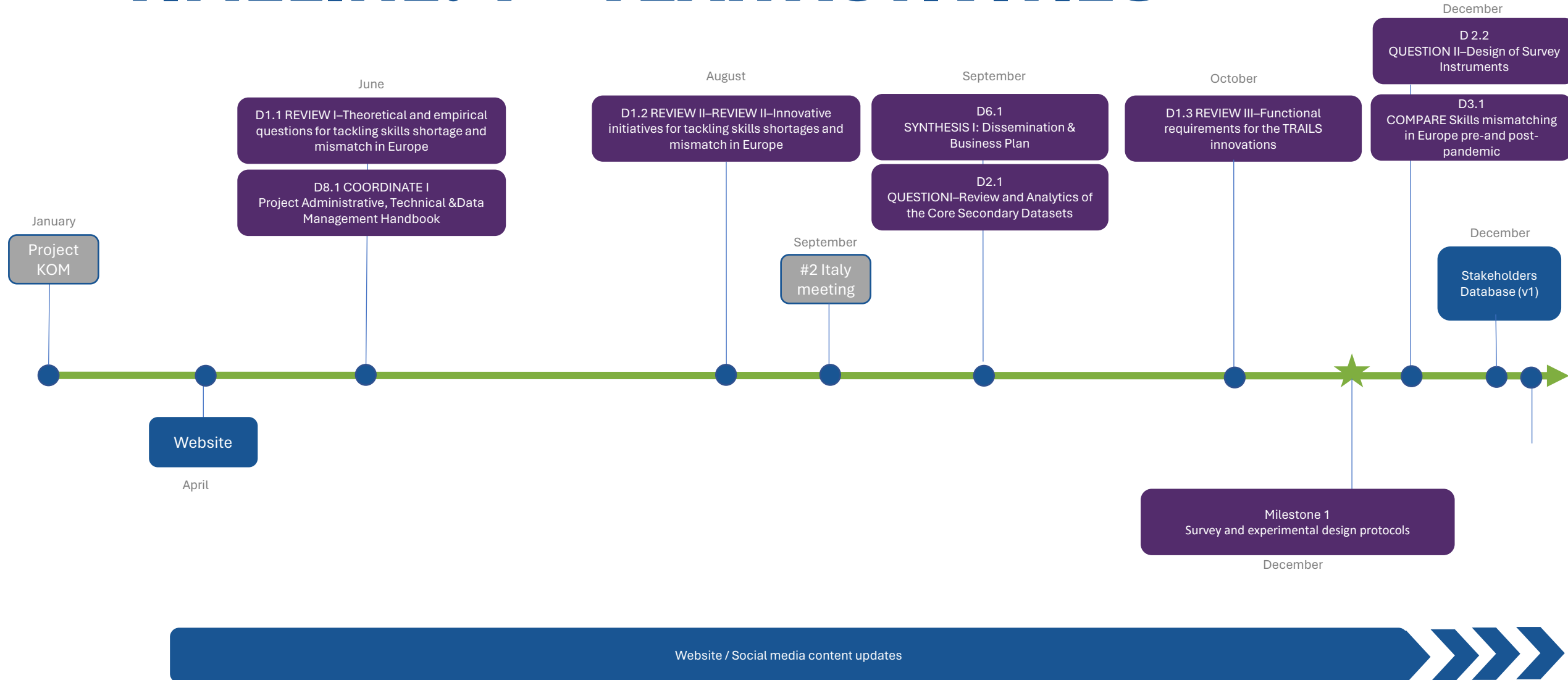
Management


- **WP8** - Project Management (**DUTH**)

TRAILS IN A NUTSHELL



TIMELINE: 1ST YEAR ACTIVITIES





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Contact us



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