



Directorate General Informatics  
Directorate D – Digital Services  
DIGIT D2 - Interoperability

# Introduction to Artificial Intelligence for Public Service Interoperability – Essential Course Information



interoperable  
europe  
Academy


*This deliverable has been produced by:*





| Essential course information  |   |
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| <b>Course Provider.</b>   | <i>European Commission</i>  |
| <b>Course title.</b> The name you give will be used to identify the course to your learners.  | <i>Introduction to Artificial Intelligence for Public Service Interoperability</i>  |
| <b>Course Topic.</b>  | Innovation and knowledge sharing  |
| <b>Course Type.</b> Choose between the below:<br>1. Ask me anything session<br>2. Blended learning<br>3. Calendar event<br>4. Flipped classroom<br>5. Hands on session<br>6. Masterclass with live tutor<br>7. Online conference<br>8. Online course<br>9. Online workshop<br>10. Podcast<br>11. Serious game Summer school<br>12. Traditional classroom setup<br>13. Virtual & augmented reality<br>14. Webinar<br>15. Winter School | E-learning online course delivered through the IOP EU Academy   |
| <b>Course tags.</b> Add any other tag that suits your course.   | Artificial intelligence, interoperability, semantic interoperability, large language models, AI Act, Interoperable Europe Act, eGovernment, interoperable public services, Public Sector Innovation, Innovative Public Services, Introduction to AI, Fundamentals of AI, Data Models  |
| <b>Partner Service.</b> Add the Directorate-General/Institution in charge, as well as the Unit.   | DG DIGIT, unit B.2  |
| <b>Related EU Policy.</b> Add the relevant policy. It should be limited to 59 characters max.   | European Data Strategy, AI Act, Interoperable Europe Act  |
| <b>Course description.</b> Describe the content of the course in the way it should appear to learners thinking of enrolling. It should be limited to 1.500 characters and include information on: what is the course about, the aim and learning objectives of the course, intended learning outcomes of the course, the general topics that will be covered throughout the course, the main type of assessments in the course.       | <p>As AI models become more and more powerful in linking data together and extracting and linking it based on its semantics, different methods and approaches have been proposed to apply AI to support interoperability.</p> <p>At the same time, different proposed approaches have shown that interoperability can support AI by providing data that is of assessed quality.</p> |

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|  | This course will provide an introduction to the fundamentals of AI for interoperable public services, covering the concept of Artificial Intelligence, and its components, the legal and policy contexts, methods to support interoperability through AI, challenges and example applications.   |
| <b>Target audience.</b> Describe the target audience or audiences the course is designed for. Be aware that open courses may be of interest to secondary target audiences not currently on your radar, like students of EU policy, lawyers, teachers etc. so be as inclusive as possible in your description. It should be limited to 750 characters | Policy makers, Members of EU public administrations who want to learn about basic aspects of AI and Interoperability and approaches to support Interoperability through AI and vice-versa.   |
| <b>Language.</b> Select the desired language for the course.   | English  |
| <b>Level.</b> Choose between: Beginner, Intermediate, Proficient, Expert   | Beginner   |
| <b>Learning Objectives.</b> Introduce a minimum of three learning objectives (what new things the learner is expected to have learned or be able to do once the course is completed). It should be limited to 750 characters max.  | <ul style="list-style-type: none"> <li>- know what an AI system is</li> <li>- understand the basic components of an AI system</li> <li>- understand the challenges related to data quality in the context of AI systems performance</li> <li>- understand the 4 interoperability layers of the EIF</li> <li>- know the basics on AI Act and EI Act</li> <li>- understand the basic aspects of AI supporting interoperability and apply them in their work</li> </ul> |
| <b>Course format.</b> The course format determines the layout of the course page. Choose the recommended option:<br><i>'Topics format – the course page is organised into module sections'.</i>  | Self-contained SCORM   |
| <b>Course structure</b>  | <p>Introduction – course overview and teaser</p> <p>Chapter 1: an introduction to AI and its components</p> <p>Chapter 2: an introduction to interoperability</p> <p>Chapter 3: AI supporting IOP in public administration in MS</p> <p>Chapter 4: Conclusions and next steps</p> <p>Chapter 5: Quiz</p> <p>Conclusion and completion certificate</p>  |
| <b>Course start date.</b> DD/month/YYYY and time 00:00   | 15/10/2023   |
| <b>Course end date.</b>  | No <i>end date</i>   |
| <b>Dependency.</b> If the course requires completion of another course before enrolment, select the relevant course from the list. If not, select 'no'.  | none   |

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| <p><b>Course duration.</b> Use the selectors to indicate the course duration in: Weeks, Days, Hours, Minutes</p>   | 30 minutes   |
| <p><b>Course Image.</b> Upload an image. Images uploaded will appear on the course card, course overview page etc. Accepted file types: GIF, JPG, PNG. Resolutions/Size: tbc.</p>                  |    |
| <p><b>How would you describe the curriculum of your course?</b> Add up to 10 descriptors for the course content.</p>   | Introduction to AI, Fundamentals of AI, Data Models, Training sets, Benchmarking datasets, Evaluation metrics for data, AI standards, Interoperability standards, Large language models and interoperability |
| <p><b>Select a course type.</b> How will learners know about your course? Choose one of the options: Hidden (default option), Open and listed Open and unlisted, For restricted audience only.</p> | Open and listed  |