

DIGITAL INNOVATION AND TRANSFORMATION | COURSE BROCHURE

Artificial Intelligence (AI) in Real Estate Development and Facilities

5 days | Classroom training | English

SMART HORIZON

info@smart-horizon.eu
Amsterdam
The Netherlands

Explore current programmes

https://smart-horizon.eu



Course content

Why attend

Artificial intelligence is creating new opportunities across the real estate lifecycle, from development feasibility and investment analysis to building operations, maintenance, energy management, tenant experience, and portfolio decision-making. The challenge for real estate and facilities professionals is determining where AI can deliver measurable value and how it can be integrated with existing property data, building systems, and management processes.

This Artificial Intelligence (AI) in Real Estate Development and Facilities course provides a practical business and operational perspective on applying AI, machine learning, generative AI, predictive analytics, computer vision, digital twins, and intelligent building technologies. Participants explore how AI can support site and development analysis, property portfolio management, predictive maintenance, space utilization, energy optimization, facilities management, and tenant services while addressing data quality, privacy, cybersecurity, governance, and implementation risks.

Professional Problems This Course Is Designed to Solve

- Unclear priorities for AI investment across property development and facilities.
- Fragmented building data that limits maintenance and energy decisions.
- Difficulty evaluating property AI use cases, risks and implementation readiness.

Course methodology

The programme combines instructor-led sessions, demonstrations, real estate and facilities case studies, AI-assisted analysis exercises, building operations scenarios, group workshops, and implementation planning. Participants examine practical applications across the property lifecycle and develop an AI use-case portfolio based on business value, data requirements, operational feasibility, risk, and measurable outcomes.

Course objectives

By the end of this course, participants will be able to:

- Understand the role of AI across real estate development, property management, and facilities management
- Identify high-value AI applications across the real estate and building lifecycle
- Apply AI-assisted analysis to development feasibility and property decision-making
- Understand predictive maintenance and intelligent asset management applications
- Use occupancy and space data to support workplace and portfolio optimization
- Evaluate AI opportunities for building energy and operational efficiency
- Understand the role of IoT, building management systems, digital twins, and computer vision in intelligent facilities
- Apply generative AI to facilities, property, and management workflows
- Evaluate data, privacy, cybersecurity, governance, and implementation risks
- Develop an actionable AI roadmap for real estate and facilities operations



Course content

Target audience

This course is suitable for:
- Real estate development managers
- Property and asset managers
- Facilities managers
- Real estate investment professionals
- Building operations managers
- Property portfolio managers
- Workplace and space management professionals
- Project and development managers
- Digital transformation and smart building professionals
- Executives responsible for property and facilities strategies

Target competencies

Participants will develop competencies in:
- AI in real estate
- AI-enabled facilities management
- Real estate analytics
- Predictive maintenance
- Smart building technologies
- Space and occupancy analytics
- Property data management
- Digital twins and IoT
- Generative AI for property operations
- AI implementation and governance

Course outline

Day 1: AI Applications Across the Real Estate and Facilities Lifecycle

09:00–09:45	Understanding artificial intelligence, machine learning, generative AI, predictive analytics, and computer vision in a property context
09:45–10:30	Mapping AI opportunities across real estate development, investment, asset management, property management, and facilities operations



Course content

10:30–11:00	Identifying data sources including property systems, maintenance records, BMS, IoT sensors, occupancy systems, financial data, and external market information
11:00–11:30	Coffee break
11:30–11:45	Identifying data sources including property systems, maintenance records, BMS, IoT sensors, occupancy systems, financial data, and external market information (continued)
11:45–12:30	Understanding how AI converts property and operational data into predictions, recommendations, automation, and decision support
12:30–13:15	Evaluating AI use cases according to business value, data availability, implementation complexity, operational impact, and risk
13:15–14:00	Practical exercise: Building an AI opportunity map for a real estate portfolio or facilities management operation

Day 2: AI for Real Estate Development, Investment and Portfolio Decisions

09:00–09:45	Applying AI-assisted research to market analysis, location assessment, property demand, and development opportunities
09:45–10:30	Using predictive analytics and scenario modelling to support feasibility studies and development planning
10:30–11:00	Applying AI to property portfolio analysis, asset performance monitoring, and investment decision support
11:00–11:30	Coffee break
11:30–11:45	Applying AI to property portfolio analysis, asset performance monitoring, and investment decision support (continued)
11:45–12:30	Using generative AI to analyze development documents, reports, proposals, contracts, and project information
12:30–13:15	Exploring AI applications in construction progress monitoring, project risk identification, cost information, and development reporting
13:15–14:00	Case study: Evaluating a real estate development opportunity using AI-supported market, financial, operational, and risk information

Day 3: Predictive Maintenance and Intelligent Facilities Management

09:00–09:45	Moving from reactive and preventive maintenance toward predictive and condition-based maintenance strategies



Course content

09:45–10:30	Using equipment history, sensor data, alarms, work orders, and failure patterns to identify maintenance requirements
10:30–11:00	Understanding AI applications for HVAC, electrical systems, lifts, pumps, and other critical building assets
11:00–11:30	**Coffee break**
11:30–11:45	Understanding AI applications for HVAC, electrical systems, lifts, pumps, and other critical building assets (continued)
11:45–12:30	Connecting AI analytics with Computerized Maintenance Management Systems (CMMS) and facilities management workflows
12:30–13:15	Applying generative AI to maintenance records, work-order summaries, troubleshooting knowledge, and facilities documentation
13:15–14:00	Practical workshop: Designing an AI-enabled predictive maintenance workflow for critical building equipment

Day 4: Smart Buildings, Energy Optimization and Occupant Experience

09:00–09:45	Integrating AI with Building Management Systems (BMS), IoT devices, smart meters, sensors, and connected building infrastructure
09:45–10:30	Using occupancy analytics to improve space utilization, workplace planning, cleaning schedules, and building services
10:30–11:00	Applying AI to energy consumption analysis, HVAC optimization, demand patterns, and building performance improvement
11:00–11:30	**Coffee break**
11:30–11:45	Applying AI to energy consumption analysis, HVAC optimization, demand patterns, and building performance improvement (continued)
11:45–12:30	Understanding digital twins and their role in monitoring, simulation, asset information, and facilities decision-making
12:30–13:15	Exploring computer vision and intelligent monitoring applications while considering privacy and appropriate controls
13:15–14:00	Case study: Developing an AI-supported smart building strategy for energy efficiency, space utilization, and occupant experience



Course content

Day 5: AI Governance and Implementation for Real Estate and Facilities

09:00–09:45	Assessing data quality, interoperability, system integration, and information ownership before implementing AI solutions
09:45–10:30	Managing privacy, cybersecurity, access controls, sensitive building information, and third-party technology risks
10:30–11:00	Evaluating AI vendors and solutions based on business requirements, integration capability, scalability, transparency, and total cost
11:00–11:30	**Coffee break**
11:30–11:45	Evaluating AI vendors and solutions based on business requirements, integration capability, scalability, transparency, and total cost (continued)
11:45–12:30	Establishing human oversight and validation for AI-generated predictions, recommendations, and operational decisions
12:30–13:15	Measuring AI performance through maintenance cost, downtime, energy consumption, space utilization, service response, tenant experience, and return on investment
13:15–14:00	Capstone exercise: Developing an AI Implementation Roadmap for Real Estate Development and Facilities covering priority use cases, required data, technology integration, governance, KPIs, and expected business value

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the sessions. They are indicative only and do not constitute a binding commitment.

Dates, venues and fees

Current published course plans. Fees are per participant in EUR, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (EUR)
Dubai Confirmed dates	16 Nov 2026	20 Nov 2026	**€3,150.-**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Frankfurt Confirmed dates	7 Dec 2026	11 Dec 2026	**€2,650.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**
Kuala Lumpur Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,450.–**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.–**
Paris Confirmed dates	4 Jan 2027	8 Jan 2027	**€2,860.–**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**€1,250.–**
Cape Town Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,890.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Istanbul Confirmed dates	18 Jan 2027	22 Jan 2027	**€2,650.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	18 Jan 2027	22 Jan 2027	**€1,250.-**
Amsterdam Confirmed dates	1 Feb 2027	5 Feb 2027	**€2,540.-**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.-**
Singapore Confirmed dates	15 Feb 2027	19 Feb 2027	**€2,820.-**
Online Confirmed dates	15 Feb 2027	19 Feb 2027	**€1,250.-**
London Confirmed dates	1 Mar 2027	5 Mar 2027	**€2,450.-**
Online Confirmed dates	1 Mar 2027	5 Mar 2027	**€1,250.-**
Dubai Confirmed dates	15 Mar 2027	19 Mar 2027	**€3,150.-**
Online Confirmed dates	15 Mar 2027	19 Mar 2027	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Rome Confirmed dates	22 Mar 2027	26 Mar 2027	**€2,450.-**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**€1,250.-**
Frankfurt Confirmed dates	5 Apr 2027	9 Apr 2027	**€2,650.-**
Online Confirmed dates	5 Apr 2027	9 Apr 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,450.-**
Online Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,250.-**
Paris Confirmed dates	3 May 2027	7 May 2027	**€2,860.-**
Online Confirmed dates	3 May 2027	7 May 2027	**€1,250.-**
Cape Town Confirmed dates	10 May 2027	14 May 2027	**€1,890.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	10 May 2027	14 May 2027	**€1,250.-**
Istanbul Confirmed dates	17 May 2027	21 May 2027	**€2,650.-**
Online Confirmed dates	17 May 2027	21 May 2027	**€1,250.-**
Amsterdam Confirmed dates	7 Jun 2027	11 Jun 2027	**€2,540.-**
Online Confirmed dates	7 Jun 2027	11 Jun 2027	**€1,250.-**
Singapore Confirmed dates	21 Jun 2027	25 Jun 2027	**€2,820.-**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**€1,250.-**
London Confirmed dates	5 Jul 2027	9 Jul 2027	**€2,450.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Vienna Confirmed dates	12 Jul 2027	16 Jul 2027	**€2,940.-**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,250.-**
Dubai Confirmed dates	19 Jul 2027	23 Jul 2027	**€3,150.-**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**€1,250.-**
Frankfurt Confirmed dates	2 Aug 2027	6 Aug 2027	**€2,650.-**
Online Confirmed dates	2 Aug 2027	6 Aug 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	16 Aug 2027	20 Aug 2027	**€1,450.-**
Online Confirmed dates	16 Aug 2027	20 Aug 2027	**€1,250.-**
Paris Confirmed dates	6 Sept 2027	10 Sept 2027	**€2,860.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Barcelona Confirmed dates	13 Sept 2027	17 Sept 2027	**€2,840.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**€1,250.-**
Istanbul Confirmed dates	20 Sept 2027	24 Sept 2027	**€2,650.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.-**
Amsterdam Confirmed dates	4 Oct 2027	8 Oct 2027	**€2,540.-**
Online Confirmed dates	4 Oct 2027	8 Oct 2027	**€1,250.-**
Singapore Confirmed dates	18 Oct 2027	22 Oct 2027	**€2,820.-**
Online Confirmed dates	18 Oct 2027	22 Oct 2027	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
London Confirmed dates	1 Nov 2027	5 Nov 2027	**€2,450.–**
Online Confirmed dates	1 Nov 2027	5 Nov 2027	**€1,250.–**
Dubai Confirmed dates	15 Nov 2027	19 Nov 2027	**€3,150.–**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**€1,250.–**
Rome Confirmed dates	22 Nov 2027	26 Nov 2027	**€2,450.–**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.–**
Frankfurt Confirmed dates	6 Dec 2027	10 Dec 2027	**€2,650.–**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	13 Dec 2027	17 Dec 2027	**€1,450.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	13 Dec 2027	17 Dec 2027	**€1,250.-**

Plan your next step

Dates, availability, exact venue, taxes, inclusions and payment terms require written confirmation. This brochure is not a quotation, registration, booking confirmation or visa invitation. Participants receive a Smart Horizon certificate of attendance; programmes are not externally accredited and do not award a professional qualification or designation. Confirm arrangements before booking travel.

For group or in-house training, contact our learning team to discuss your objectives and delivery arrangements.

Contact Smart Horizon

info@smart-horizon.eu
Amsterdam
The Netherlands

View the latest course details online