

The EU Blueprint Project about Blockchain Technology and Education

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Project Details



PROJECT DURATION 48 MO	NTHS NOVEMBER 2020 - OCTOBER 2024
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GEOGRAPHICAL COVERAGE 15 COUNTRIES



The CHAISE partnership





- 23 Partners + 5 associates
- 13 + 2 EU countries

Sector representativ es	Companies	E&T providers	Entities with regulatory function	Labour market research institutes
INATBA, DIGITALEUR OPE, DIGITAL SME, BERCHAIN, ITALIA4BLOC KCHAIN, ALASTRIA (associated)	INTRASOFT, FUJITSU, IOTA, C4A, INDUSTRIA, EXELIA	UCBL, UPC, UT, UL, DHBW, ESRI, DIEK- AIGALEO (associated)	ECQA, YPEPTH, CPI, CIMEA, ACQUIN, VISC (associated)	DHBW, ESRI, ECORYS (associated), KANEP-GSEE (associated)



Expected outcomes



- A detailed skill needs and mismatches analysis for the European Blockchain Sector (WP2)
- A quantitative forecasting model (D3.1.1) of future blockchain skill supply and demand

An institutionally validated **European Blockchain Skills Strategy** (D4.3.1) to address skill shortages & mismatches

- A 5 semester VET programme (D5.2.1) to address technical, non-technical & cross-discipline skill needs
- Open Educational Resources for Blockchain Training (D5.3.1) in 11 EU languages
- A Massive Open Online Course (MOOC) on Blockchain Skills (D5.6.1), for large scale, open and flexible learning
- Delivery of training to at least 700 individuals (T5.7), reaching out to 50 companies and E&T providers
- A new blockchain specialist occupational profile (D6.1.1) to be embedded into ESCO & ECQA classification systems
- A blueprint and roadmap for the establishment of a blockchain specialisation qualification (D6.3.1)

A "Blockchain" career guidance & alumni platform (D7.2.1), to promote graduates' employability and mobility

Work package Structure

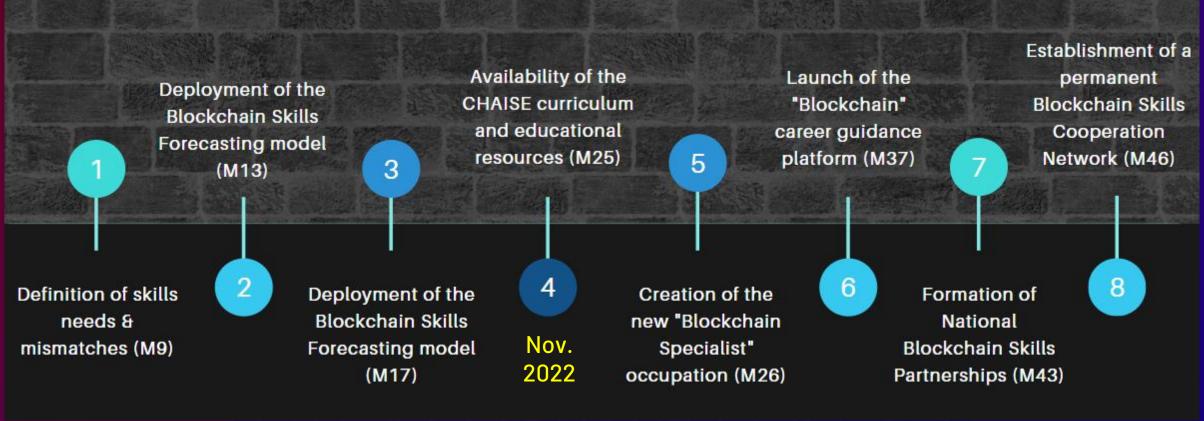


UMBRELLA	SKILLS INTELLIGENCE & TRAINING	RECOGNITION AND MOBILITY	MAINSTREAMING
WP1: PROJECT MANAGEMENT WP8: DISSEMINATION AND COMMUNICATION ACTIVITIES WP10: QUALITY ASSURANCE AND EVALUATION	WP2: SKILLS NEED INTELLIGENCE WP3: FORECASTING FRAMEWORK FOR THE ANTICIPATION OF FUTURE BLOCKCHAIN SKILL NEEDS WP5: JOINT CURRICULUM DESIGN AND DELIVERY	WP6: OCCUPATIONAL REQUIREMENTS, RECOGNITION AND CERTIFICATION WP7: BLOCKCHAIN STUDENTS & PROFESSIONAL MOBILITY SUPPORT	WP4: SETTING UP A EUROPEAN BLOCKCHAIN SKILLS STRATEGY WP9: SUSTAINING & EXTENDING THE SECTORAL COOPERATION ON BLOCKCHAIN SKILLS



Key Milestones





Free on-line courses: Jan. – Apr. 2023







blockchain skills for Europe

Occupational Profiles



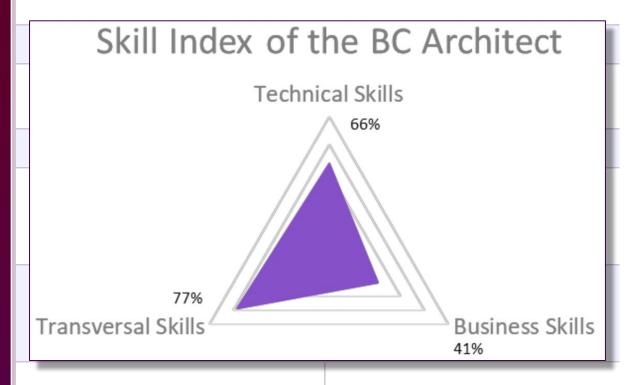


Transversal Skills	(M,	Α,	D)
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Technical Ba	sics (D, A, M)	Business Basics (M, A, D)	
Technical Blockchain	Specialisation (D, A)	Business Blockchain Specialisation (M)	
BC Conception & Use Case Development (A)	BC Engineering & Development (D)	Strategic Business Management (A, M)	Operational Business Management (D, M)



Transversal Skills (M, A, D)



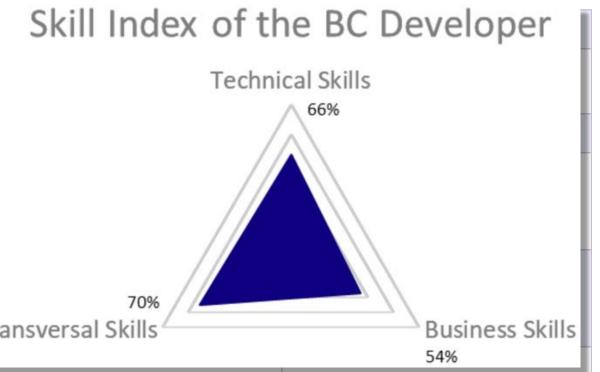
- All Technical & Blockchain Specific skills
 - A specific on the conception and design
- Business Needs Analysis, Product Management, Product Development and Business / Use Case Development
- All Transversal skills are important for the BC Architect



Transversal Skills (M, A, D)				
Introduction to Blockchain Technology Regulation, Legal Aspects and Governance of Blockchain Systems				
Technical Ba	sics (D, A, M)	Business Bas	sics (M, A, D)	
3. Fundamentals of Block Ledger Ted	ckchain and Distributed chnologies	4. Blockchain Business Management and Planning		
Technical Blockchain Specialisation (D, A) Business Blockchain Specialisation (M)			n Specialisation (M)	
5. Blockchain Security and Digital Identity 6. Blockchain System Architecture & Consensus Protocols				
BC Conception & Use Case Development (A)	BC Engineering & Development (D)	Strategic Business Management (A, M)	Operational Business Management (D, M)	
9. Applied Cryptography		11. Developing use cases: From ideas to services		



Transversal Skills (M, A, D)



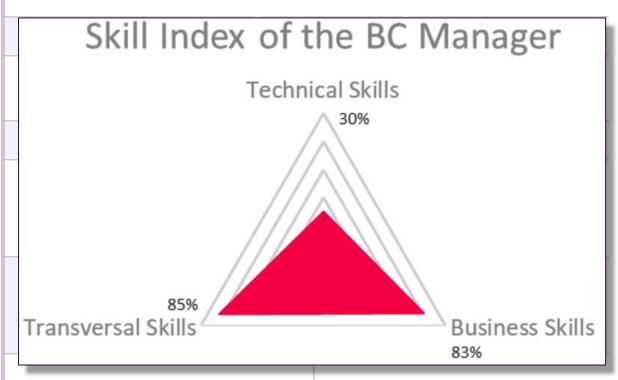
- General software development skills
 - Emphasis on the development skills
- The important Business skills are operational business skills.
- All transversal skills should be included



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Transversal Skills (M, A, D)					
Introduction to Blockchain Technology Regulation, Legal Aspects and Governance of Blockchain Systems					
Technical Ba	sics (D, A, M)		sics (M, A, D)		
3. Fundamentals of Blockchain and Distributed Ledger Technologies		4. Blockchain Business Management and Planning			
Technical Blockchain Specialisation (D, A)		Business Blockchain Specialisation (M)			
_	ty and Digital Identity chitecture & Consensus ocols				
BC Conception & Use Case Development (A)	BC Engineering & Development (D)	Strategic Business Management (A, M)	Operational Business Management (D, M)		
	10. Smart Contracts and Digital Currency Programming		12. Game Theory in Blockchain		



Transversal Skills (M, A, D)



- Overview of the functional and technical background of Blockchain technology and its applications
- The Blockchain Manager needs an economic and business-oriented education (Business skills)
- All Transversal Future skills should be included



Transversal Skills (M, A, D)					
Introduction to Blockchain Technology Regulation, Legal Aspects and Governance of Blockchain Systems					
Technical Bas	sics (D, A, M)		sics (M, A, D)		
3. Fundamentals of Blockchain and Distributed Ledger Technologies4. Blockchain Business Management and Planning					
Technical Blockchain	Technical Blockchain Specialisation (D, A) Business Blockchain Specialisation (M)				
		7. Blockchain Platforms 8. Marketing and Customer Support			
BC Conception & Use Case Development (A)	BC Engineering & Development (D)	Strategic Business Management (A, M)	Operational Business Management (D, M)		
		11. Developing use cases: From ideas to services	12. Game Theory in Blockchain		



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Transversal Skills (M, A, D)					
	1. Introduction to Blo	ockchain Technology			
2. Regulat	ion, Legal Aspects and G	overnance of Blockchair	n Systems		
Technical Ba	sics (D, A, M)	Business Basics (M, A, D)			
3. Fundamentals of Block	ckchain and Distributed	4. Blockchain Busine	ess Management and		
Ledger Technologies		Plan	ning		
Technical Blockchain Specialisation (D, A)		Business Blockchain Specialisation (M)			
5. Blockchain Security and Digital Identity 6. Blockchain System Architecture & Consensus Protocols		7. Blockchain Platforms 8. Marketing and Customer Support			
BC Conception & Use Case Development (A)	BC Engineering & Development (D)	Strategic Business Management (A, M)	Operational Business Management (D, M)		
9. Applied Cryptography	10. Smart Contracts Programming	11. Developing use cases: From ideas to services	12. Game Theory in Blockchain		

MODULE

1. TITLE OF THE MODULE

Lecture X.1: Title

- + Video.
- + Practical exercise.
- + Case Study.

Lecture X.2: Title

- + Video.
- + Practical exercise.
- + Case Study.

Lecture X.3: Title

- + Video.
- + Practical exercise.
- + Case Study.

Lecture X.4: Title

- + Video.
- + Practical exercise.
- + Case Study.

LECTURE CONTENT:

- 20-30 slides.
- 5-6 pages of lecture notes.
- 1 lecture video (60-90 minutes lengh).
- 1 case study.
- 5 questions / answers.
- 1 practice exercise.
- 10 multiple choice questions.





Transversal Skills (M, A, D)					
2. Regulat	1. Introduction to Blockchain Technology 2. Regulation, Legal Aspects and Governance of Blockchain Systems Technical Basics (D, A, M) Business Basics (M, A, D)				
Technical Ba	sics (D, A, M)	AL: Business Ba	sics (M, A, D)		
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Ledger Ted	chnologies b sem	esters Plan	ning		
Ledger Technologies 5 semesters Blockchain Specialisation (D, A) Technical Blockchain Specialisation (D, A) Historical Blockchain Specialisation (M)					
5. Blockchain Security an Eaching hours 12 dlechain Platforms					
BC Conception & Use Case Development (A)	Practive h Developments Developments	O GratSic Euses Management (A, M)	Operational Business Management (D, M)		
9. Applied Cryptography	10. Smart Contracts Programming	11. Developing use cases: From ideas to services	12. Game Theory in Blockchain		

Use Case Automotive: MOBI

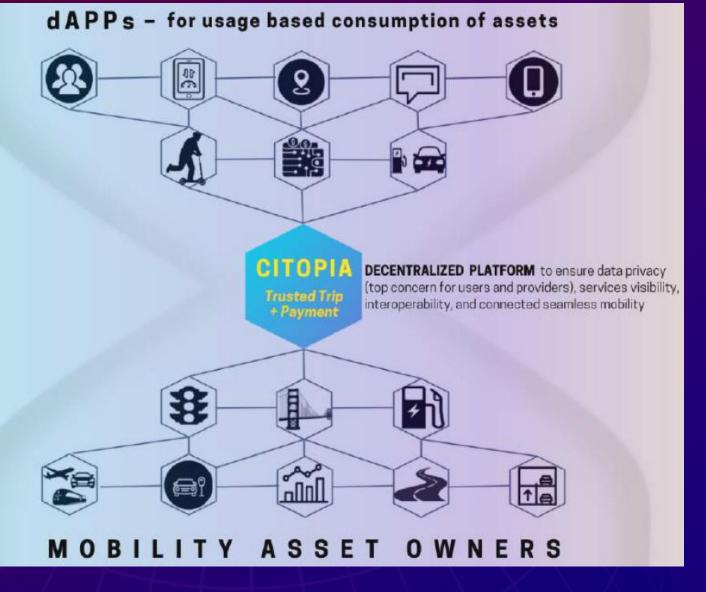


Citopia ECOSYSTEM

- · Platform marketplace
- · Utility stable token
- MOBI community

A tokenized ecosystem where mobility asset owners can manage & charge for use of curbs, road use & wear, EV charging, insurance, green zone, congestion, carbon, pollution, etc.

Source: MOBI White Paper 2021





Strategy Proposal to CHAISE Board







- Collaborate on integrating BC Skills in Automotive Qualification
- Collaborate on certification and badge delivery
- Collaborate on lobbying on a European level
- etc.



Conclusion and Outlook



- CHAISE is the key initiative on Blockchain/DLT Skill Development in Europe
- EuroSPI members can get actively involved, and are invited to free pilot trainings
- BC/DLT's will have a considerable impact on the EuroSPI community
- Collaboration between ASA and CHAISE will be very beneficial
- BC/DLT's will lead to the "internet of values", probably the biggest transformation of internet ever since its existence
- The global mobility ecosystem will be leveraged by BC/DLT's















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