

Vocabulary of all DC4DM terms

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
1	3D Prototyping	3D Prototyping is a process of showcasing solutions expressed as physical products. Individuals and organisations can use a ...	Screenshot 2021-05-26 at 17 54 09.png (https://dl.airtable.com/.attachments/306df2093828...)	digital	Efficiency	Process	Advanced Intermediate Expert	Entrepreneurs Business owners Students Teachers	Prototyping
2	Adopting different perspectives	The ability to observe problems and look at information from different angles, generating hypotheses and ideas from a range of diverse ...		cognitive	Coordination	Input	Intermediate	Entrepreneurs Business owners Students Teachers	Evaluation
3	Agile Methodology	Agile methodology is an approach focused on the idea of iterative development, where requirements and solutions evolve through...	https://www.agilealliance.org/	cross-funct... digital	Coordination Efficiency Integration	Process	Advanced	Entrepreneurs	Implementa...
4	Analogical reasoning and association	Analogical reasoning and association is the cognitive ability to transfer or map knowledge from one domain to another ...		cognitive	Coordination	Process	Advanced Expert	Entrepreneurs Teachers Business owners	Prototyping Implementa... Evaluation Research Ideation

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5	Brief generation canvas	Brief generation canvas is a tool that gives the possibility to a company to consolidate clearly a brief that can be used to engage people that will ...		strategic	Coordination	Process	Beginner Intermediate	Business owners Entrepreneurs Students Teachers	Ideation
6	Build-your-own workspace	Build-your-own workspace is an energiser, team building activity that usually takes place when teams start working together on a project. Its...		cross-funct...	Mobilisation	Process	Beginner	Students Teachers	Prototyping
7	Business Model	A business model describes the back-stage plan of an organization on how it creates, delivers and captures value. A business model is useful ...	https://www.strategyzer.com/expertise/business-models	strategic	Integration	Process	Intermediate Advanced	Entrepreneurs Teachers Business owners	Prototyping Evaluation Implementa...
8	Circular design	Circular design is an approach to designing first introduced by William McDonough in his book Cradle to Cradle - which proposes a framework fo...	https://www.ted.com/talks/william_mcdonough_cradle_to_cradle_design/transcript?language=en	strategic	Optimisation	Input	Advanced Beginner Intermediate Expert	Students Teachers Business owners Entrepreneurs	Evaluation Research Prototyping Ideation Implementa...

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9	Clarify objectives	Clarifying objectives is a step in digital process that highlight the goal clearly. Building on personal knowledge and initial hunches, within thi...		strategic	Coordination	Output		Business owners Entrepreneurs	Ideation
10	Clustering	Clustering is one of the first convergent steps involved in brainstorming and idea generation. It involves grouping the ideas or elements create...	https://innovation.english.sites.ku.dk/metode/clustering/	cross-funct... strategic	Acceleration Integration	Process	Intermediate	Students Business owners Teachers Entrepreneurs	Ideation
11	Co-creation	Co-creation is a collaboration between a digital team and its stakeholders, whereby the participants engage in conversation together to...		cross-funct...	Coordination Integration	Process	Advanced Intermediate	End-users / Clie Entrepreneurs Business owners Teachers Students	Ideation
12	Codifying roles	Codifying the roles is one of the key tools used in design workshops. This helps to simplify and standardise the processes and activities, but it also ...		cross-funct...	Coordination	Process	Advanced Expert		Ideation Implementa...

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13	Collaborative design	Collaborative design is an approach that designers use in digital projects to engage people from other fields in the design process to make sure th...		cross-funct...	Coordination Integration Efficiency	Process	Advanced Expert	Entrepreneurs Teachers Students End-users / Clie Business owners	Ideation Implementa... Prototyping
14	Competences mapping	Competences Mapping is an activity that helps mapping the competences of the students. They receive a template and badges, so...		cognitive cross-funct... strategic	Coordination	Process	Advanced Expert	Teachers Entrepreneurs Business owners	Evaluation Research
15	Concept	A concept is an abstract or initial idea that can be part of a plan, of strategy, or a solution. It is often described as a type of mental representation. It...		strategic cognitive		Input	Intermediate Advanced Expert	Entrepreneurs Teachers Students End-users / Clie Business owners	Ideation
16	Concept definition	Concept definition is a facilitated activity in which the team uses all the available information they have about the problem they are trying to solve, i...		strategic cognitive	Integration	Process	Beginner Intermediate	Entrepreneurs Teachers Students End-users / Clie Business owners	Ideation

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17	Concept validation	Concept validation is step in the process of coming up with a solution that involves sharing the concept with stakeholders (for example solution ...		strategic	Coordination	Process	Advanced Intermediate Beginner	Students Business owners Entrepreneurs End-users / Clie	Evaluation
18	Conceptual combination	Conceptual combination is a fundamental cognitive process by which two or more existing basic concepts are mentally synthesized to generate ...		cognitive		Process	Advanced Expert		Ideation Prototyping
19	Cooperative behaviour	The ability to enjoy and seek working with others, both peers and experts, involving team members in decisions, listening to other's ideas and lookin...		cognitive cross-funct...			Beginner Intermediate	Entrepreneurs Teachers Students End-users / Clie Business owners	Implementa...
20	Coping with uncertainty, ambiguity and risk	The ability to operate effectively and make decisions dealing with uncertainty and ambiguity, taking risks in the hope of great ...		cognitive			Intermediate Advanced Expert		Implementa...

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21	Creative combination and imagination	The ability to use imagination to identify opportunities and to combine ideas, concepts, and knowledge to create original and valuable ...		cognitive			Intermediate Advanced Expert	Entrepreneurs Teachers Students Business owners	Ideation
22	Creative self-efficacy	Creative self-efficacy is the belief and confidence one has the ability to produce creative outcomes. Source: ...	https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.369.4676&rep=rep1&type=pdf	cognitive		Output	Intermediate Advanced Expert	Students Business owners Teachers Entrepreneurs End-users / Clients	Ideation Implementation
23	Creative visualization	Creative visualisation is a process that involves ideas that come from everyday thinking that are curated and transformed in visual images to provide various ...		cross-functional cognitive	Coordination Mobilisation	Process		Entrepreneurs Teachers Students Business owners	Prototyping
24	Critical thinking	Critical thinking is the intellectually disciplined process of actively and skillfully conceptualizing, applying, analyzing, synthesizing, and/or ...	https://ugs.utexas.edu/sig/faculty/critical-thinking	cognitive		Input	Intermediate Advanced Expert	Entrepreneurs Teachers Students Business owners	Ideation Implementation Evaluation

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25	Cross-functional teams (cross-disciplinary or multi-disciplinary teams)	Cross-functional or Multidisciplinary teams refer to teams that are made up of members from different disciplines or departments - such as...	- https://www.arj.no/2012/03/12/disciplinarity-2/	cross-funct...	Coordination Efficiency Integration Mobilisation	Output		Business owners Teachers Entrepreneurs	Ideation Prototyping Implementa...
26	Data analysis	Data analysis is a process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, informing ...	https://aarktechu.com/services/data-analytics	digital	Optimisation Acceleration	Process	Intermediate Advanced Expert	Entrepreneurs Teachers Students Business owners	Evaluation Research
27	Data Literacy	The ability to read, write and communicate data in context, including an understanding of data sources and constructs, analytical methods and ...	https://www.gartner.com/smarterwithgartner/a-data-and-analytics-leaders-guide-to-data-literacy/	digital			Intermediate Advanced Expert	Entrepreneurs Teachers Students End-users / Clients Business owners	Research Implementa...
28	Data-driven	Data-driven is an approach that helps teams make decisions and build a solution based on the collection or analysis of data. Businesses or ...	https://www.cio.com/article/3449117/what-exactly-is-a-data-driven-organization.html	digital	Acceleration Efficiency	Output	Expert Advanced	Business owners Entrepreneurs	Evaluation Research Prototyping Implementa... Ideation

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29	DC4DM model	A project that aims to implement, apply and spread a human-centred design model to facilitate and guide strategically the ongoing process of digit...	https://www.dc4dm.eu/about/	cognitive cross-funct... digital strategic	Coordination Autonomy Mobilisation Integration Access Acceleration	Process	Intermediate Advanced Expert	Students Teachers Business owners Entrepreneurs	Evaluation Research Prototyping Implementa... Ideation
30	Define	Definition is a stage in the Design process. The aim of this step is to converge the in-depth information collected and analysed during the design ...		strategic		Process	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Business owners	Prototyping
31	Design (Service) Safari	An immersive observation and insight-gathering exercise that is carried out in the real world. The observation can be done either in an environment...	Screenshot 2021-05-26 at 17 42 28.png_ (https://dl.airtable.com/attachments/a700d03d9b8...)	cross-funct...	Mobilisation Efficiency Access	Process	Intermediate Advanced Beginner	Students End-users / Clie Entrepreneurs Business owners	Research
32	Design challenge	A design challenge articulates the problem you are trying to solve, and helps you define a scope that is neither too narrow nor too broad.		strategic	Mobilisation	Process	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students Business owners	Ideation

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33	Design Jam	A design jam is a collaborative brainstorming activity or event, geared towards generating solutions in a fun and creative ...	https://participedia.net/method/4620	cross-funct...	Mobilisation Coordination	Process	Intermediate Advanced Expert Beginner	Teachers Students Entrepreneurs	Ideation
34	Design Thinking in Flipped	Design Thinking in Flipped is a concept derived from the term "The Flipped Classroom" methodology which aims to help students explore the ...		cognitive		Process	Intermediate Advanced Expert Beginner		Ideation
35	Diagnostic thinking	Diagnostic thinking is a way to make careful examination of a situation, describing the nature of a design problem and making decisions about ...		cognitive	Optimisation Mobilisation	Input	Intermediate Advanced Expert	Entrepreneurs Teachers Students Business owners	Ideation Research Implementa... Prototyping Evaluation
36	Digital Creativity	Digital creativity is about using digital tools and technologies to explore creative ideas and new ways of displaying your ideas, research, or work. ...	https://subjectguides.york.ac.uk/skills/digital-creativity	cognitive	Acceleration Integration Mobilisation	Output	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students End-users / Clients Business owners	Evaluation Research Prototyping Implementa... Ideation

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37	Digital Ethics	Digital ethics is the field of study concerned with the way technology is shaping and will shape our political, social, and moral existence. In developing ...	https://www.process.st/digital-ethics/	strategic	Optimisation	Process	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students End-users / Clients Business owners	
38	Digital intelligence	Digital intelligence is the ability to acquire and apply new knowledge and skills related to digital technologies, to improve operational efficiency an...		strategic	Access	Input	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students End-users / Clients Business owners	
39	Digital knowledge sharing	It's a way of exchanging information and expertise for the creative teams while considering content from multiple digital sources, with the purpos...		cross-funct... digital	Access Coordination	Process	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students End-users / Clients Business owners	
40	Digital Maturity	Digital maturity is a measure of an individual and organisation's ability to create value through digital, which usually is predictor of success for ...	https://www.bcg.com/en-es/capabilities/digital-technology-data/digital-maturity	cognitive cross-funct... digital strategic		Output	Advanced Expert	Business owners Students Entrepreneurs	Implementa...

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41	Digital Mindset	Digital mindset refers to a set of attitudes and behaviors that enable people and organizations to lead with purpose, innovate and achieve ...	https://home.kpmg/xx/en/home/insights/2020/07/kpmg-digital-mindset.html	cognitive digital		Input	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students End-users / Clients Business owners	
42	Digital Sustainability	Digital sustainability is an approach taken by entrepreneurial organisations to develop digital services that contribute to solving ...	https://www.researchgate.net/publication/338776466_Digital_Sustainability_and_Entrepreneurship_How_Digital_Sustainability_Contributes_to_Solving_Problems	digital strategic		Process	Intermediate Advanced Expert	Entrepreneurs Teachers Students End-users / Clients Business owners	Implementa...
43	Digital technologies	Digital technologies are electronic tools, systems, devices and resources that generate, store or process data. Well known examples include social ...	https://www.education.vic.gov.au/school/teachers/teachingresources/digital/Pages/teaching.aspx	digital		Process	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students End-users / Clients Business owners	
44	Digital transformation	Digital transformation is a continual process of knowledge and skills development that's aimed to take place after reaching the target of ...		strategic cross-funct... digital		Output	Advanced Expert	Business owners	Implementa...

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45	Driving change and innovation	The ability to see opportunities and persevere for continuous improvement through innovation generates in others the willingness or ...		strategic		Process	Advanced Expert	Entrepreneurs Teachers Students Business owners	
46	Effective communication	Effective communication is communication that is clear, coherent, concrete, engaging and consistent. In multidisciplinary teams, effective communication...		cross-funct...		Process	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students End-users / Clients Business owners	
47	Empathy	The ability to be aware of, sensitive to, and supportive of one's own another's feelings, needs and concerns.		cognitive		Input	Intermediate Advanced Expert Beginner		
48	Enabling Trust	The ability to understand another's behaviour and be positively inclined to other's competencies, knowledge, skills and actions. Motivation, ...		cognitive		Process	Intermediate Advanced Expert Beginner	Entrepreneurs Teachers Students Business owners	

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49	Engage	Engage is a step in the design process preliminary to starting to work on the design problem or challenge. It consists of involving all ...		cross-funct...		Process	Intermediate Advanced Expert Beginner		
50	Entrepreneurial skills	Entrepreneurial skills involve knowing how to make decisions, making change happen, being proactive and developing creative ideas for the ...		strategic		Input	Intermediate Advanced Expert Beginner		Prototyping Implementa...
51	Envisioning future scenario	The ability to visualise, develop and bring to life a future scenario, envision new tech applications and turn a vision into action.		strategic		Process	Intermediate Advanced Expert		
52	Envisioning Tech Opportunities	The ability to observe the application of digital technologies and understand their potential in terms of social and cultural opportunities to ...		strategic		Process	Intermediate Advanced Expert		

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53	Ethical and Sustainable Thinking	The ability to understand and assess the ethical and sustainable implications of digital ideas, opportunities and projects.		cognitive strategic		Input	Intermediate Advanced Expert Beginner		
54	Ethical Design Thinking	Ethical Design Thinking is a new methodology that allows designers and product teams to focus on human values throughout their design process. ...	https://www.humanetech.com/	cognitive strategic		Input	Intermediate Advanced Expert Beginner		
55	Ethical skills	Some of the key skills that allow designers to take action in an ethical way to create digital solutions. For instance ethical skills like empathy and the ...		cognitive		Input	Intermediate Advanced Expert Beginner		
56	Evaluative thinking	Evaluating thinking is an assessment of the ideas generated in term of reasonableness, quality and appropriateness taking in consideration ...		strategic cognitive		Input	Intermediate Advanced Expert		

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57	Experience prototyping	Another prototyping tool used in the workshop is experience prototyping. This allows us to understand how their idea plays out when a user ...		cross-funct... strategic digital		Process	Intermediate Advanced Expert	Entrepreneurs Business owners Students	Prototyping
58	Feedback loops	Feedback loops are relationships between different variables in a digital designed system that are interdependent. One action in the system...	https://www.interaction-design.org/literature/topics/feedback-loops	digital cross-funct...		Process	Intermediate Advanced Expert		Ideation Prototyping Implementa... Evaluation
59	Future-oriented mindset	The ability to orient thinking and actions on the future.		strategic cognitive		Input	Intermediate Advanced Expert Beginner		Implementa... Ideation Evaluation
60	Futures Thinking	Futures thinking is a mindset that helps teams offer better services through understanding the long-term issues or challenges shaping the ...	https://medium.com/touchpoint/futures-thinking-a-mind-set-not-a-method-64c9b5f9da37	strategic cognitive		Input	Intermediate Advanced Expert Beginner		Implementa...

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61	Growth mindset	Growth mindset is a way of thinking in which individuals who believe their talents can be developed through hard work, good strategies, a...	- https://hbr.org/2016/01/what-having-a-growth-mindset-actually-means	cognitive		Input	Advanced Expert		Implementa... Evaluation
62	Healthy Use of Technology	The ability to understand the benefits and harms of technology on one's mental and physical health and to use technology while ...		strategic cognitive digital		Process	Intermediate Advanced Expert Beginner		Ideation Implementa... Evaluation
63	Human-centered	Human-centered is a term that refers to the processes or approaches to developing digital-driven products or services with the needs, ...	https://www.designkit.org/human-centered-design	strategic cognitive	Coordination Optimisation	Output	Beginner Intermediate Advanced Expert		Ideation Evaluation Implementa...
64	Human-Machine Collaboration	Machine-human collaboration is a model in which humans co-work with artificial intelligence (AI) systems and other machines rather than ...	https://whatistechtarget.com/definition/machine-human-collaboration	cognitive digital		Process	Advanced Expert		Prototyping

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65	Human-Machine Interaction	Human-machine interaction (HMI) refers to the communication and interaction between a human and a machine via a user interface....	https://www.sciencedirect.com/topics/engineering/human-machine-interaction	cognitive digital		Technology	Advanced Expert		Prototyping
66	Humanity Problem Solving	The ability to solve complex challenges of our century with a strategic approach that consider the needs of humans and society at large.		cognitive digital strategic cross-funct...		Process	Intermediate Advanced Expert Beginner		
67	Hypothesis generation	Hypothesis generation is a quick exercise that allows designers to reflect on all the already-known assumptions and insights related to user needs an...	https://servicedesigntools.org/tools/hypothesis-generation	strategic		Process	Intermediate Advanced Expert		Research
68	Idea clustering	Ideas clustering consists of categorising ideas to gain a clear overview and better understanding on a project.		cross-funct... strategic		Process	Intermediate Advanced Expert		Ideation

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69	Idea stealing	Idea stealing is a divergent thinking workshop activity that involved exploring the ideas of other teams or participants in the ...		cross-funct...		Process	Intermediate Advanced Expert Beginner		Ideation
70	Ideation (or Idea Generation)	Idea generation is the creative process of generating, developing, and communicating new ideas in a visual, concrete, or abstract format that w...		cross-funct...		Process	Beginner Intermediate Advanced Expert		Ideation
71	Ideational thinking. Divergent thinking.	Ideational thinking is an explorative thinking which consists of flowing from idea to idea leading towards the production of a novel and original ...		strategic		Input	Intermediate Advanced Expert Beginner		Ideation
72	Information literacy	The ability to effectively navigate, critically evaluate and synthesise information encountered online and their sources, examining reliability and...		digital cognitive		Input	Intermediate Advanced Expert Beginner		Ideation

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73	Information sorting	Information sorting is a process that creates a group of information based on organising similar and contrasting ideas in a way that helps...		cross-funct... strategic		Process	Intermediate Advanced Expert Beginner		Research
74	Information visualisation	Information visualization is the process of representing data in a visual and meaningful way so that a user can better understand it....	https://www.interaction-design.org/literature/topics/information-visualization	digital		Process	Intermediate Advanced Expert		Research Prototyping
75	Iteration	Iteration is a design methodology that includes the whole process of prototyping, testing, analysing and refining a product or ...	https://www.interaction-design.org/literature/article/design-iteration-brings-powerful-results...	digital		Process	Intermediate Advanced Expert Beginner		Implementa...
76	Journey mapping	The journey map is a synthetic representation that describes step-by-step how a user interacts with a service throughout its touchpoints....	https://servicedesigntools.org/tools/journey-map	cross-funct... strategic		Process	Intermediate Advanced Expert	Students Teachers Business owners Entrepreneurs	Prototyping

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77	Key Performance Indicator (KPI)	A Key Performance Indicator is a measurable value that demonstrates how effectively designers achieve key objectives of the digital solutions. ...	https://www.klipfolio.com/resources/articles/what-is-a-key-performance-indicator	strategic		Process	Intermediate Advanced Expert		Implementa... Evaluation
78	Long term vision	Long strategic planning (5-10 years) as an intentional response to the changes emerging in the digital landscape.		strategic		Input	Advanced Expert		Implementa...
79	Look outside, inside, beyond	Looking outside is an approach that gives opportunity of a company to systematically look outside the boundaries of an existing digital solutio...		cross-funct... strategic		Process	Intermediate Advanced Expert Beginner		
80	Mental model	Mental model represents a set of beliefs that the user has about a given system or interaction. For example when a person uses a mobile app to ...	https://www.nngroup.com/articles/mental-models/	cognitive		Input	Intermediate Advanced Expert Beginner		Evaluation Ideation Implementa...

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81	Mentorship	Mentorship is a relationship in which a more knowledgeable or experienced person guides and nurtures the professional developme...	https://cs.lbl.gov/diversity-equity-and-inclusion/csa-mentoring-program/what-i...	cross-funct...		Process	Intermediate Advanced Expert Beginner		Ideation Implementa...
82	Metrics	Metrics is a way of assessment and helps designers tracking the status of a specific digital process. To make relevant decisions, designers nee...	https://www.klipfolio.com/blog/business-metrics-vs-kpis#:~:text=KPIs%20are%20measurable%20values...	strategic digital		Process	Intermediate Advanced Expert Beginner		
83	Mind Gym	Mind Gym is a creativity tool that aims to encourage the building of analytical and synthetical skills among less experienced designers in...		cognitive		Process	Beginner Advanced Expert	Students	Ideation
84	Moral creativity	Moral creativity in the digital environment is defined as the conscious transformation of moral values into innovative digital-driven services or...		cognitive		Input	Intermediate Advanced Expert Beginner		

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85	Moral sensitivity	Moral sensitivity is an individual's capability of identifying moral issues and acting according to them in the design process.		cognitive		Input	Intermediate Advanced Expert Beginner		
86	Multidisciplinary collaboration	Multidisciplinary collaboration is an approach used in team work when designing digital services or products. It takes place ...		cross-funct... strategic		Process	Intermediate Advanced Expert Beginner		Implementa... Ideation
87	NECSTCamp	NECSTCAMP is format of mentoring or training based on the idea that technical skills are only one of the key elements that make up personal ...				Process	Intermediate Advanced Expert Beginner		
88	Oficina Poliempreende	Oficina Poliempreende is a format for teaching, promoting and developing creative business-oriented projects with the objectives to ...				Process	Intermediate Advanced Expert Beginner		

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89	Open data	Open data is data that can be freely used, re-used and redistributed by anyone on a specific topic, with the requirement to attribute and sharealike. ...	https://opendatahandbook.org/guide/en/what-is-open-data/	digital cross-funct...		Input	Intermediate Advanced Expert		
90	Passion in Action courses	Passion in Action courses is a training activity that develops a set of transversal, soft and social skills and supports creative work.				Process			
91	Personas and user scenarios	Personas are a digital tool of creating fictional characters, which you develop based upon your research in order to represent the different ...	https://www.interaction-design.org/literature/topics/personas	strategic		Process	Intermediate Advanced Expert		Prototyping
92	Pitching ideas / solutions	A pitch is a presentation of a business idea that helps to persuade potential investors. People pitch a business because they need resources. If t...	https://study.com/academy/lesson/business-pitch-definition-types-importance.html	cross-funct... digital strategic		Process	Intermediate Advanced Expert		Evaluation

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93	Positive affect	Positive affect is the pleasant state that can be induced by small things that happen in everyday life. The findings suggest that there is the potentia...	http://psychology.iresearchnet.com/social-psychology/emotions/positive-affect/	cognitive		Input	Intermediate Advanced Expert Beginner		
94	Positive mood	The ability to keep a positive attitude and to experience and display positive emotions, feelings and expressions, including optimism, pride, ...		cognitive		Input	Intermediate Advanced Expert Beginner		
95	Prioritisation	Prioritisation is the action or process of deciding the relative importance or urgency of an idea or another in designing digital led solutions.		strategic cross-funct...		Process	Intermediate Advanced Expert		Evaluation
96	Problem Statement/Design Problem	A design problem is a major need or a gap in the digital system that needs to be taken into consideration. Defining a problem - through a ...		strategic		Input	Intermediate Advanced Expert Beginner		Research

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97	Propensity to be creative	Propensity to be creative refers to skill sets that encourage creativity and ability to remember large amount of information more accurately. They ar...		cognitive	Mobilisation	Input	Intermediate Advanced Expert Beginner		
98	Propensity to share knowledge	Propensity to share knowledge is a belief that the individuals with higher expertise tend to be more willing to share information in team work.		cognitive		Input	Intermediate Advanced Expert Beginner		
99	Prototype	Prototyping refers to first drafts towards the final product, which are expressed into tangible or visual forms to test and validate design ...		digital cross-funct...		Process	Intermediate Advanced Expert		Prototyping
100	Prototype iteration	Prototype iterations is a process that appears when the solution has already been prototyped - either as an interactive UX/UI prototype, as a ...		digital cross-funct...		Process	Intermediate Advanced Expert		Prototyping Evaluation

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101	Prototype testing / validation	Prototype testing is a process that involves sharing the prototype with potential users to get feedback that will contribute to the ...		digital cross-funct...		Process	Advanced Expert		Prototyping Evaluation
102	Rapid prototyping	The definition of rapid prototyping is an analogy for proof of concept — it's a process of quickly creating the future state of a product, be it a ...	https://xd.adobe.com/ideas/process/prototyping/rapid-prototyping-efficient-way-communicate-...	digital cross-funct...		Process	Intermediate Advanced Expert		Prototyping
103	Relationship management	The ability to skilfully manage one's relationships, online and offline, through cooperations, conflict management, and ...		cognitive strategic			Intermediate Advanced Expert		
104	Resilience	In simple terms, resilience is the capacity of recovering after a disturbance or interruption. Resilient design is the intentional ...		cognitive		Input	Intermediate Advanced Expert Beginner		

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
105	Resource allocation	In design resource allocation is be used to describe the process of assigning people, materials, tasks and so on based on availability and...		strategic cross-funct...		Process	Advanced Expert		Prototyping Implementa...
106	Resource mapping	Resource mapping is a strategy for identifying and analyzing the people, services, organisations and other resources that can be related to the ...		strategic cross-funct...		Process	Advanced Expert		Research
107	Scaling experiments	Scaling experiments is a process mainly used to predict the outcome of full scale behaviour by performing experiments on a small scale model t...		strategic		Output	Expert		Implementa...
108	Scenario exploration and evaluation	Scenario exploration and evaluation is a stage in the process that consists of recombining and reorganising information to create insight. Defin...		strategic		Process	Advanced Expert		Ideation Evaluation

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
109	Scenario mapping	Scenario mapping is the process of outlining all the steps a user will take to complete a task, which creates a scenario. User scenarios are stories whi...		strategic		Process	Advanced Expert Intermediate		Ideation Research
110	Self-confidence and self-awareness	The ability to believe in one's personal performance, skills and characteristics, and keep developing.		cognitive			Intermediate Advanced Expert Beginner		
111	Set up	Set up is a stage that happens before work, that consists of planning the work to be done and the tools to be used in the different steps of the ...		cross-funct...		Process	Intermediate Advanced Expert Beginner		Ideation
112	Shadowing	Shadowing is a method of observation in the field, that structured in a way that helps designer get useful and real information from the ...		cross-funct...		Process	Intermediate Advanced Expert Beginner	Students Business owners Entrepreneurs	Research

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
113	Shared mental model	A shared mental model is a representation of knowledge structures that are shared among team members. Shared mental models ...		cognitive strategic cross-funct...		Output	Advanced Expert		Implementa... Evaluation
114	Shifting perspective	Shifting perspective is an approach in design which is related to perceiving a problem or a possible solution from a different, even contrasting angle ...		cognitive strategic		Output	Intermediate Advanced Expert Beginner		Implementa...
115	Storytelling	Storytelling is the process of using fact and narrative to communicate something to your audience. Some stories are factual, and some ar...	https://blog.hubspot.com/marketing/storytelling	strategic cognitive		Process	Intermediate Advanced Expert		
116	Strategic management of impact	The ability to plan design actions to guide tech applications and scenario evaluation.		strategic		Process	Expert		Implementa...

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
117	Strategic thinking	Strategic thinking is a mental process of identifying the critical issues that must be addressed and pathways needed to move toward ...		<div>strategic</div> <div>cognitive</div>		Input	Intermediate Advanced Expert		
118	Sustainable (responsible) digital creativity	The concept of sustainable digital creativity is a strategic idea that points out creating digital resources that maximise their value...		<div>strategic</div> <div>cognitive</div> <div>digital</div> <div>cross-funct...</div>		Output	Intermediate Advanced Expert		<div>Ideation</div> <div>Implementa...</div>
119	Sustainable Development	The ability to understand the potential of digital technologies to develop sustainable, long-term, social, cultural and economic innovation ...		<div>strategic</div> <div>cognitive</div> <div>digital</div> <div>cross-funct...</div>		Output	Advanced Expert		<div>Implementa...</div>
120	Sustainable Thinking	The concept of sustainable thinking is about out creating, using, and regulating digital resources with the focus of bringing value value f...		<div>strategic</div> <div>cognitive</div> <div>digital</div>		Input	Intermediate Advanced Expert Beginner		<div>Ideation</div> <div>Implementa...</div> <div>Evaluation</div>

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
121	System Mapping	Systems mapping is a tool that consists of creating visual representations of a system, showing relationships and feedback loops, actors ...	https://medium.com/disruptive-design/tools-for-systems-thinkers-systems-mapping-...	strategic cognitive digital cross-funct...		Process	Expert		Research Prototyping
122	Team Digital Creativity	Team Digital creativity is a skill that is related to using digital tools and technologies to explore creative ideas and new ways of displaying your ...	https://subjectguides.york.ac.uk/skills/digital-creativity	cognitive digital cross-funct...		Output	Intermediate Advanced Expert Beginner		
123	Team facilitation	Team facilitation is the process of using a facilitator, coordinator in a meeting to lead a team achieve a specific outcome such as ...		cross-funct...		Output	Advanced Expert		Implementa...
124	Technical skills	Technical skills refer to the specialized knowledge and expertise needed to accomplish complex actions, tasks, and processes relating to any...	https://www.investopedia.com/terms/t/technical-skills.asp	digital		Input	Intermediate Advanced Expert Beginner		Prototyping Implementa...

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
125	Theory of change	A theory of change is a description of why a designed solution will be effective, showing how change happens in the short, medium and long ...	https://knowhow.ncvo.org.uk/how-to/how-to-build-a-theory-of-change	strategic		Process	Advanced Expert		Implementa...
126	Translating knowledge and storytelling	The ability to easily convey a specific domain of knowledge to people with diverse backgrounds to build a shared understanding.		cross-funct... cognitive		Process	Intermediate Advanced Expert		
127	Transversal Skills	Skills that are not related only to a job, task, academic discipline or area of knowledge and that can be used in a wide variety of situations and ...	https://inee.org/ei-glossary/transferrable-skills	cross-funct... cognitive		Output	Advanced Expert		Evaluation Research Prototyping Implementa... Ideation
128	User interviews	User interviews involve a set a questions that the designer researcher addresses to the potential users whose answers provide an understandin...	https://www.nngroup.com/articles/user-interviews/	digital		Process			

#	Concept name	Definition of concept	External reference	DCA cluster	Why / Outcome	Type of resource	Who / Expertise	Who / Type of users	When / Phase
129	Virtual collaboration	Virtual collaboration is the method of collaboration between virtual team members that happens through the mediation of technology.		digital cross-funct...		Process			
130	Visionary thinking	Visionary thinking is related to innovative thinking in a digital setting, and it's an approach of looking towards the future or ...		cognitive strategic		Input			
131	Work environment	A work environment refers to the elements that comprise the setting and the atmosphere influenced by the relationships between ...	https://www.glassdoor.com/blog/guide/work-environment/	cross-funct...		Input			