Role title	Cultural ICT Consultant			
Also known as	Cultural ICT Ambassador / Cultural ICT Advisor/ Cultural ICT Specialist			
Relevant professions				
Summary statement	Analyses museums' or other cultural institutions', such as galleries, achives, libraries, etc. (hereinafter refered to only as museums), and visitors' needs, defines and specifies solution requirements and evaluates installed solutions.			
Mission	To identify the best-suited solutions, according to the museums' and visitors' needs, requirements and financial resources and deliver advice on how new technologies can enhance collections and make them more attractive to all types of visitors on- and off-line, but also attract new audiences and ensure their return.			
	Accountable for	Responsible for	Contributor to	
Deliverables	Provision of advice on the development of an ICT strategy, which will beneft both the museum and the visitors. Development of guidelines for the implementation of this strategy in the most effective and efficient manner. Evaluation of customer needs. Advice on selection of adequate products and services.	Solution specifications. Liaising between ICT providers and museum staff.	Market analysis. User requirements. Suggestion of relevant ICT products/services. Quality control. Assessment of ethical issues.	
Main task/s	requirements.	isitors' needs: arket, identify market eums' and visitors' ne		

options. To interface technology and museum needs. To understand the expectations of museums and visitors. To foresee the impact of technological solutions that will meet the needs of the internal teams s/he works with, as well as of the visitors. Related to the provision of advices on the ICT strategy and solutions: To advise on the elaboration of the institution's ICT strategy. • To plan time, cost and quality of the designed and specified solution including ROI of any technologies. To raise awareness on information technology innovations and potential value to a business. To engage museums in the adoption of new technologies for improved access to cultural heritage. To remain informed of new and emerging technologies and systems. • To provide advice on the selection of products and solutions. To advise on the preparation and negotiation of contracts with suppliers. • To advise on compliance with standards and regulations on To provide advice on how to optimize the use of existing tools and systems. To communicate with museums, staff and technology providers. • To act as a relay between ICT providers/commercial service providers and museums. Works as an external consultant or internally within the museum. Is at the crossroad of the museum management team, permanent or **Environment** temporary exhibitions curators, communication and marketing team (incl. web services) and visitor services team. Percentage of recommendations accepted by management. Spread of recommendations on strategic, tactical and operational level. Percentage of projects delivered on time, within budget, within KPI's scope and according to quality requirements. Increased interest on the museum on- and off-line. Promotion of museums as a showcase of effective use of new technologies.

Dimension 1	A. PLAN	
e-Comp. area		
Dimension 2	A.1. IS and Business Strategy Alignment	
e-Competence: Title + generic description	Anticipates long term business requirements, linked to the museum's ICT strategy, and influences improvement of organisational process efficiency and effectiveness. Suggests strategic IS policy decisions to the museum decision makers.	
		ing IS strategy is one of the crucial functions of ICT Consultant, since museum general soften don't have the necessary knowledge to make informed decisions.
Dimension 3	Level 1	
e-Competence	Level 2	
proficiency levels	Level 3	
e-1 to e-5, related to EQF levels 3 to 8	Level 4	Provides leadership for the construction and implementation of long term innovative IS solutions.
	Level 5	Provides IS strategic leadership to reach consensus and commitment from the
Dimension 4	V1 husina	management team of the museum.
Dimension 4		ess strategy concepts and implications of ICT internal or external developments for museums
Knowledge		tential and opportunities of relevant business models
examples		
Champies	K4 the business aims and organisational objectives K5 the issues and implications of sourcing models	
Knows/Aware		w emerging technologies (e.g. distributed systems, virtualisation, mobility, data sets)
of/Familiar with		ectural frameworks
	K8 how business processes are integrated and their dependency upon ICT applications	
	K9 ethical issues	
	K10 museum and visitor needs	
Skills examples	S1 analys	e future developments in business process and technology application
	S2 determine requirements for processes related to ICT services	
Is able to	S3 identify and analyse long term museum/visitor needs	
	S4 contribute to the development of ICT strategy and policy, including ICT security and quality	
	S5 contribute to the development of the museum's strategy	
	S6 analyse feasibility in terms of costs and benefits	
	S7 review and analyse effects of implementations	
	S8 understand the impact of new technologies on museum's business (e.g. open / big data,	
	dematerialization opportunities and strategies)	
	S9 understand the museum's business benefits of new technologies and how this can add value and provide competitive advantage (e.g. open / big data, dematerialisation opportunities and strategies)	
	S10 understand the museum architecture	
	S11 understand the legal & regulatory landscape in order to factor into business requirements	
	S12 demonstrate a high degree of interpersonal skills	
	S13 explain (defend, argue, justify)	
	S14 lead a team	
	S15 resolv	ve conflicts

Dimension 1	A. PLAN
e-Comp. area	

Dimension 2	A.2. Service Level Management			
	Advises on the definition, validation and applicability of service level agreements (SLAs) and			
e-Competence: Title		underpinning contracts for services offered upon implementation of the museum's ICT strategy.		
+ generic	Negotiate	es service performance levels taking into account the needs and capacity of		
description	stakehold	lers (visitors, colleagues, educational institution representatives, Cultural Heritage		
	professio	nals, donors, decision makers, etc.) and museum.		
Dimension 3	Level 1			
e-Competence	Level 2			
proficiency levels	Level 3	Ensures the content of the SLA.		
e-1 to e-5, related to	Level 4	Negotiates revision of SLAs, in accordance with the overall objectives. Ensures the		
EQF levels 3 to 8		achievement of planned results.		
	Level 5			
Dimension 4	K1 SLA documentation			
	K2 how to compare and interpret management data			
Knowledge	K3 the elements forming the metrics of service level agreements			
examples	K4 how service delivery infrastructures work			
	K5 impact of service level non-compliance on museum's business performance			
Knows/Aware	K6 ICT security standards			
of/Familiar with	K7 ICT quality standards			
Skills examples	S1 analyse service provision records			
	S2 evaluate service provision against SLA			
Is able to	S3 negotiate realistic service level targets			
	S4 use relevant quality management techniques			
	S5 anticip	pate and mitigate against potential service disruptions		
	S6 be precise and aware of details			

Dimension 1	A. PLAN		
e-Comp. area			
Dimension 2	A.3. Busin	ness Plan Development	
e-Competence: Title + generic description	including proposition analysis a	Provides advice on the design and structure of solutions supporting the museum's ICT strategy, including the identification of alternative approaches as well as return on investment propositions. Considers the possible and applicable sourcing models. Presents cost benefit analysis and reasoned arguments in support of the selected strategy. Ensures compliance with museum and technology strategies. Uses a marketing plan to negotiate with ICT providers.	
Dimension 3	Level 1		
e-Competence	Level 2		
proficiency levels	Level 3		
e-1 to e-5, related to EQF levels 3 to 8	Level 4	Provides leadership for the creation of an information system strategy that meets the requirements of the museum and its staff and the needs of the visitor/user (e.g. distributed, mobility-based) and includes risks and opportunities. Suggests modifications to the IS strategy to include appropriate preventative and contingent action.	
	Level 5	Applies strategic thinking and organisational leadership to exploit the capability of Information Technology to meet the business goals of the museum.	

Dimension 4	K1 business plan elements and milestones		
	K2 the present and future market size and needs		
Knowledge	K3 competition and SWOT analysis techniques (for product features and also the external		
examples	environment)		
	K4 value creation channels		
Knows/Aware	K5 profitability elements		
of/Familiar with	K6 the issues and implications of sourcing models		
	K7 financial planning and dynamic		
	K8 new emerging technologies		
	K9 risk and opportunity assessment techniques		
Skills examples	S1 address and identify essential elements of product or solution value propositions		
	S2 define the appropriate value creation channels		
Is able to	S3 build a detailed SWOT analysis		
	S4 generate short and long term performance reports (e.g. financial, profitability, usage and		
	value creation)		
	S5 identify main milestones of the plan		
	S6 explain (defend, argue, justify)		
	S7 lead a team		
	S8 resolve conflicts		
	S9 demonstrate a high degree of interpersonal skills		

Discoursian 4	A DLAN		
Dimension 1	A. PLAN		
e-Comp. area			
Dimension 2	A.4. Prod	uct / Service Planning	
	Analyses	and defines target status. Estimates cost effectiveness, points of risk, opportunities,	
e-Competence: Title	strengths	and weaknesses, with a critical approach, based on the museum's own interpretation	
+ generic	of reading	ess for deploying ICT. Creates structured plans; establishes time scales and milestones,	
description	ensuring	optimisation of activities and resources. Propose change requests. Defines delivery	
·	quantity a	and provides an overview of additional documentation requirements. Specifies correct	
	-	of products, including legal issues, in accordance with current regulations.	
Dimension 3	Level 1		
e-Competence	Level 2	Acts systematically to document standard and simple elements of a product.	
proficiency levels	Level 3		
e-1 to e-5, related to			
EQF levels 3 to 8	20014 Trovides readership and takes responsibility for, developing and maintaining over		
LQI IEVEIS 3 to 6		plans.	
	Level 5		
Dimension 4	K1 effective frameworks and methodologies for governance plans		
	K2 typical KPI (key performance indicators)		
Knowledge	K3 basic decision-making methods		
examples	K4 IPR principles and regulation		
	K5 structured Project Management Methodologies (e.g. agile techniques)		
Knows/Aware	K6 optimisation methods (e.g. lean management)		
of/Familiar with	K7 new emerging technologies		

Skills examples	S1 identify all potential targets for the product or service	
	S2 produce quality plans	
Is able to	S3 ensure and manage adequate information for decision makers	
	S4 provide the change request process	
	S5 manage the product / service development management lifecycle (inclusive of the formal	
	change request process)	
	S6 be precise and aware of details	
	S7 lead a team	
	S8 demonstrate a high degree of interpersonal skills	

Dimension 1	A. PLAN		
e-Comp. area			
Dimension 2		nology Trend Monitoring	
	_	tes latest ICT technological developments to establish understanding of evolving	
e-Competence: Title	1	gies that could be deployed in museums. Devises innovative solutions for integration of	
+ generic		nnology into existing products, applications or services or for the creation of new	
description	solutions.		
Dimension 3	Level 1		
e-Competence	Level 2		
proficiency levels	Level 3		
e-1 to e-5, related to	Level 4	Exploits wide ranging specialist knowledge of new and emerging technologies that	
EQF levels 3 to 8		could be deployed in museums, coupled with a deep understanding of the museum	
		business, to envision and articulate solutions for the future. Provides expert guidance	
		and advice, to the leadership team to support strategic decision-making.	
	Level 5	Makes strategic decisions envisioning and articulating future ICT solutions for	
		museum/visitor needs oriented processes, new business products and services;	
		directs the museum to build and exploit them.	
Dimension 4	K1 emerging technologies and the relevant market applications		
	K2 museu	um and visitor needs	
Knowledge	K3 releva	nt sources of information (e.g. magazines, conferences and events, newsletters,	
examples	opinion leaders, on-line forum, etc.)		
	K4 applied research programme approaches		
Knows/Aware			
of/Familiar with			
Skills examples	S1 monito	or sources of information and continuously follow the most promising	
	S2 identif	y vendors and providers of the most promising solutions; evaluate, justify and propose	
Is able to	the most appropriate.		
	S3 identif	y museum business advantages and improvements of adopting emerging technologies	
	S5 match	museum and visitor needs with existing products	
	S6 identif	y museum advantages and improvements of adopting emerging technologies	

Dimension 1	A. PLAN
e-Comp. area	
Dimension 2	A.8. Sustainable Development
	Estimates the impact of ICT solutions used for the implementation of the museum's ICT strategy
e-Competence: Title	in terms of eco responsibilities including energy consumption. Advises different museum teams,

+ generic description	e.g. content, education and ICT, marketing, communication, etc. on sustainable alternatives that are consistent with the museum's business strategy. Provides advice on an ICT purchasing and sales policy which fulfils eco-responsibilities.	
Dimension 3	Level 1	
e-Competence	Level 2	
proficiency levels e-1 to e-5, related to	Level 3	Promotes awareness, training and commitment for the deployment of sustainable development and applies the necessary tools for piloting this approach.
EQF levels 3 to 8	Level 4	Defines objective and strategy of sustainable IS development in accordance with the museum's sustainability policy.
	Level 5	
Dimension 4	K1 metric	s and indicators related to sustainable development
	K2 corpoi	rate social responsibility (CSR) of stakeholders within the IS infrastructure
Knowledge		
examples		
Knows/Aware		
of/Familiar with		
Skills examples		or and measure the ICT energy consumption
		recommendations in projects to support latest sustainable development strategies
Is able to	S3 master regulatory constraints and international standards related to ICT sustainability	
	S4 demonstrate a high degree of interpersonal skills	
	S5 explair	n (defend, argue, justify)

Dimension 1	A. PLAN		
e-Comp. area			
Dimension 2	A.9. Inno	vating	
e-Competence: Title + generic description	Devises of could add	Devises creative solutions for the provision of new concepts, ideas, products or services that could add value to the museum and entertain the visitor. Deploys novel and open thinking to envision exploitation of technological advances to address business / society / market / visitors	
general accompanion		research direction.	
Dimension 3	Level 1		
e-Competence	Level 2		
proficiency levels	Level 3		
e-1 to e-5, related to EQF levels 3 to 8	Level 4	Applies independent thinking and technology awareness to lead the integration of disparate concepts for the provision of unique solutions.	
	Level 5	Makes recommendations for changes to the ICT strategy of the museum, as a result of information acquired through evaluation and benchmarking studies. Challenges the status quo and provides strategic leadership for the introduction of revolutionary concepts.	
Dimension 4	K1 existing and emerging technologies and market applications		
	K2 busine	ess, society and / or research habits, trends and needs	
Knowledge examples	les K3 innovation processes techniques		
	K4 museum and visitor needs		
Knows/Aware			
of/Familiar with			

Skills examples	S1 identify business advantages and improvements of adopting emerging technologies
	S2 create a proof of concept
Is able to	S3 think out of the box
	S4 identify appropriate resources
	S5 apply/transfer innovative technological solutions to museums
	S6 explain (defend, argue, justify)
	S7 match museum and visitor needs with existing products
	S8 demonstrate a high degree of interpersonal skills

Dimension 1	C. RUN		
e-Comp. area			
Dimension 2	C.2. Change Support		
e-Competence: Title + generic description	and visite modificat minimises	Implements and provides guidance on the evolution of an ICT solution that meets the museum and visitor needs. Provides advice on control and scheduling of software or hardware modifications to prevent multiple upgrades creating unpredictable outcomes. Advises on how to minimises service disruption as a consequence of changes and adheres to defined service level agreement (SLA). Ensures consideration and compliance with information security procedures.	
Dimension 3	Level 1		
e-Competence proficiency levels	Level 2	During change, acts systematically to respond to day by day operational needs and react to them, avoiding service disruptions and maintaining coherence to (SLA) and information security requirements.	
e-1 to e-5, related to EQF levels 3 to 8	Level 3	Provides advice on how to ensures the integrity of the system by controlling the application of functional updates, software or hardware additions and maintenance activities, while at the same time complying with budget requirements.	
	Level 4		
	Level 5		
Dimension 4	K1 function	onal specifications of the information system	
	K2 the exi	isting ICT application technical architecture	
Knowledge	K3 how business processes are integrated and their dependency upon ICT applications		
examples	_	e management tools and technique	
	K5 the best practices and standards in information security management		
Knows/Aware	K6 evaluation, design and implementation methodologies		
of/Familiar with	0.1		
Skills examples	S1 share functional and technical specifications with ICT teams in charge of the maintenance		
Is able to	and evolution of ICT solutions		
is able to	S2 manage communications with ICT teams in charge of the maintenance and the evolution information systems solutions		
		pate all actions required to mitigate the impact of changes (training, documentation,	
	new proc		
		cise and aware of details	
		nstrate a high degree of interpersonal skills	

Dimension 1	D. ENABLE
e-Comp. area	

Dimension 2	D.1. Information Security Strategy Development			
a Come make many Title	Advises on the development of a formal organisational strategy, scope and culture to maintain			
e-Competence: Title		safety and security of information from external and internal threats, i.e. digital forensic for		
+ generic		e investigations or intrusion investigation. Provides the foundation for Information		
description		Management, including role identification and accountability. Uses defined standards to jectives for information integrity, availability, and data privacy.		
Dimension 3	Level 1	Jectives for information integrity, availability, and data privacy.		
Dimension 3				
e-Competence	Level 2			
proficiency levels	Level 3			
e-1 to e-5, related to EQF levels 3 to 8	Level 4	Exploits depth of expertise and leverages external standards and best practices.		
EQFIEVEIS 5 to 8	Level 5	Provides strategic leadership to embed information security into the culture of the museum.		
		muscum.		
Dimension 4	K1 the po	K1 the potential and opportunities of relevant standards and best practices		
	K2 the im	K2 the impact of legal requirements on information security		
Knowledge	K3 the inf	formation strategy of the museum		
examples	K4 possib	K4 possible security threats		
	K5 the mo	K5 the mobility strategy		
Knows/Aware	K6 the different service models (SaaS, PaaS, IaaS) and operational translations (i.e. Cloud			
of/Familiar with	Computing)			
Skills examples	S1 develop and critically analyse the museum strategy for information security			
	S2 define, present and promote an information security policy for approval by the senior			
Is able to	management of the museum			
	S3 apply relevant standards, best practices and legal requirements for information security			
	S4 anticipate required changes to the museum's information security strategy and formulate			
	new plans			
	S5 propos	se effective contingency measures		
	S6 explair	n (defend, argue, justify)		

Dimension 1	D. ENABLE			
e-Comp. area				
Dimension 2	D.2. ICT C	Quality Strategy Development		
	Defines, i	mproves and refines a formal strategy to satisfy the visitor expectations and improve		
e-Competence: Title	the muse	eum's business performance (balance between cost and risks). Identifies critical		
+ generic	processes	processes influencing service delivery and product performance for definition in the ICT quality		
description	managem	management system. Uses defined standards to formulate objectives for service management,		
	product a	product and process quality. Identifies ICT quality management accountability.		
Dimension 3	Level 1			
e-Competence	Level 2			
proficiency levels	Level 3			
e-1 to e-5, related to	Level 4	Exploits wide ranging specialist knowledge to leverage and authorise the application		
EQF levels 3 to 8		of external standards and best practices.		
	Level 5	Provides strategic leadership to embed ICT quality (i.e. metrics and continuous improvement) into the culture of the museum.		

Dimension 4	K1 the major information technology industry frameworks, e.g. COBIT, ITIL, CMMI, ISO – an			
	their implications for corporate IS governance			
Knowledge	K2 the information strategy of the museum			
examples	K3 the different service models (SaaS, PaaS, IaaS) and operational translations (i.e. Cloud			
	Computing)			
Knows/Aware	K4 ICT quality standards			
of/Familiar with	K6 the potential and opportunities of relevant standards and best practices			
	K7 good practices (methodologies) and standards in risk analysis			
	K4 museum and visitor needs			
	K5 how to measure and apply resources to meet museum and visitor requirements			
	K6 research methods, benchmarks and measurements methods			
Skills examples	S1 define an ICT quality policy to meet the museum's standards of performance and customer			
	satisfaction objectives			
Is able to	S2 identify quality metrics to be used			
	S3 apply relevant standards and best practices to maintain information quality			
	S4 match museum and visitor needs with existing products			
	S5 analyse the impact of functional/technical changes on museum and visitor needs			
	S6 be precise and aware of details			

Dimension 1	D. ENABLE			
e-Comp. area				
Dimension 2	D.3. Educ	D.3. Education and Training Provision		
	Defines a	nd implements ICT training policy to address organisational skill needs and gaps. An ICT		
e-Competence: Title	strategy t	ailored to the museum and visitor needs will make demands in terms of new skills. The		
+ generic	aim here	is to identify what skills are required in what positions, which skills need to be located		
description	in-house	and which bought in on demand, and the actions needed to upgrade skills of existing		
	employee	es. Structures, organises and schedules training programmes to meet the		
		tioned skills needs and evaluates training quality through a feedback process and		
	implemer	nts continuous improvement. Adapts training plans to address changing demand.		
Dimension 3	Level 1	Works with an established, internal museum expert to conduct an analysis of existing		
		e-learning skills, identify skills gaps and plan interventions to address these gaps.		
e-Competence	Level 2	Organises the identification of training needs; collates museum requirements,		
proficiency levels		identifies, selects and prepares schedule of training interventions.		
e-1 to e-5, related to	Level 3	Acts creatively to analyse skills gaps;. Conducts a systematic position-by-position		
EQF levels 3 to 8		analysis of the skills that will be required to support the museum's ICT strategy. Uses a		
		systematic process to identify current skill levels for all current or prospective holders of these positions.		
		Elaborates specific requirements and identifies potential sources for training		
	provision. Has specialist knowledge of museum visitors and establishes a feedba			
		mechanism to assess the added value of alternative training programmes.		
	Level 4	Identifies those skills which should ideally be resident in-house and those which		
		should be bought-in as needed. Investigates and compares alternative means to		
		address the skills gaps and commissions bespoke solutions where necessary.		
	Level 5			
Dimension 4	K1 appropriate pedagogical approaches and education delivery methods e.g. classroom, online,			
	text, dvd			
Knowledge	K2 the co	mpetitive market for educational offering		

examples	K3 training needs analysis methodologies
	K4 competence and skill needs analysis methodologies
Knows/Aware	K5 empowerment techniques
of/Familiar with	K6 museum staff and visitor needs
	K7 how to measure and apply resources to meet museum staff and visitor requirements
	K8 research methods, benchmarks and measurements methods
Skills examples	S1 organise training and education schedules to meet museum staff and visitor needs
	S2 identify and maximise use of resources required to deliver a cost effective schedule
Is able to	S3 promote and market education and training provision
	S4 analyse feedback data and use it to drive continuous improvement of education and training
	delivery
	S5 design curricula and training programmes to meet museum staff and visitor ICT education
	needs
	S6 address CPD needs of staff to meet organisational requirements
	S7 match museum staff and visitor needs with existing products

Discoursian 4	D ENABL	-		
Dimension 1	D. ENABLE			
e-Comp. area				
Dimension 2	D.4. Purc			
		on a consistent procurement procedure, according to the museum's ICT strategy,		
e-Competence: Title	_	including deployment of the following sub processes: specification requirements, supplier		
+ generic		tion, proposal analysis, evaluation of the energy efficiency and environmental		
description		ce of products, suppliers and their processes, contract negotiation, supplier selection		
		ract placement. Ensures that the entire purchasing process is fit for purpose, adds		
	business	value to the museum compliant to legal and regulatory requirements.		
Dimension 3	Level 1			
	Level 2	Understands and applies the principles of the procurement process. Places orders		
e-Competence		based on existing supplier contracts. Ensures the correct execution of orders,		
proficiency levels		including validation of deliverables and correlation with subsequent payments.		
e-1 to e-5, related to	Level 3	Exploits specialist knowledge to deploy the purchasing process, ensuring positive		
EQF levels 3 to 8		commercial relationships with suppliers. Advises on the selection of suppliers,		
		products and services by evaluating performance, cost, timeliness and quality.		
		Conducts extensive benchmarking to determine what systems, tools and equipment		
		have proved successful in comparable museums. Advises on contract placement and		
		complies with organisational policies.		
	Level 4	Provides leadership for the application of the museum's procurement policies and		
		makes recommendations for process enhancement. Applies experience and		
		procurement practice expertise to advise on ultimate purchasing decisions.		
	Level 5			
Dimension 4	K1 typical	purchase contract terms and conditions		
	K2 own museum purchasing policies			
Knowledge		ial models e.g. discount structures		
examples	K4 the current market for relevant products or services			
	K5 the issues and implications of outsourcing services			
Knows/Aware	K6 different service models (SaaS, PaaS, IaaS) and operational translations (e.g. Cloud			
of/Familiar with	Computin	ng)		
	K7 museu	m and visitor needs		

	K8 museum and visitor needs analysis techniques		
	K9 research methods, benchmarks and measurements methods		
Skills examples	S1 interpret product / service specifications		
	S2 negotiate terms, conditions and pricing		
Is able to	S3 analyse received proposals / offers		
	S4 advise on the purchasing budget		
	S5 lead purchase process improvement		
	S6 analyse the energy efficiency and environmental-related aspects of a proposal		
	S7 verify that purchasing processes respect legal issues including IPR		
	S8 match museum and visitor needs with products in the market		
	S9 be precise and aware of details		

Dimension 1	D. ENABLE			
e-Comp. area				
Dimension 2	D.10. Information and Knowledge Management			
	Advise on the management of structured and unstructured information stemming from the			
e-Competence: Title		museum's ICT strategy and considers information distribution policies. Creates information		
+ generic		to enable exploitation and optimisation of information. Understands appropriate tools		
description	to be dep	ployed to create, extract, maintain, renew and propagate knowledge related to culture		
	technolog	gies in order to capitalise from the information asset.		
Dimension 3	Level 1			
e-Competence	Level 2			
proficiency levels	Level 3			
e-1 to e-5, related to	Level 4	Integrates the appropriate information structure into the museum's virtual		
EQF levels 3 to 8		environment.		
	Level 5	Correlates information and knowledge to create value for the museum's business.		
		Applies innovative solutions based on information retrieved.		
Dimension 4	K1 metho	ds to analyse information and business processes		
	K2 ICT de	vices and tools applicable for the storage and retrieval of data		
Knowledge	K3 challenges related to the size of data sets (e.g. big data)			
examples	K4 challenges related to unstructured data (e.g. data analytics)			
Knows/Aware				
of/Familiar with				
Skills examples	S1 gather internal and external knowledge and information needs			
·	S2 formalise visitor requirements			
Is able to	S3 translate / reflect museum business behaviour into structured information			
	S4 make information available S5 ensure that IPR and privacy issues are respected S6 capture, storage, analyse, data sets, that are complex and large, not structured and in			
	different			
	S7 apply data mining methods			
		n (defend, argue, justify)		
		cise and aware of details		
	S10 be in	novative, creative		

Dimension 1	D. ENABLE		
e-Comp. area			
Dimension 2		eds Identification	
	•	istens to key stakeholders. e.g. children, local visitors, tourists, decision makers,	
e-Competence: Title		al institution representatives, Cultural Heritage professionals, museum employees, to	
+ generic		s and clarify their needs. Manages the relationship with all stakeholders to ensure that	
description		on is in line with business requirements. Proposes different solutions (e.g. make-or-	
		performing contextual analysis in support of user centered system design. Advises the	
	museum	on appropriate solution choices. Acts as an advocate engaging in the implementation or	
	configura	tion process of the chosen solution.	
Dimension 3	Level 1		
e-Competence	Level 2		
proficiency levels	Level 3	Establishes reliable relationships with key stakeholders. e.g. children, local visitors,	
e-1 to e-5, related to			
EQF levels 3 to 8		professionals, museum employees, and helps them clarify their needs.	
24. 16.6.5 5 10 5	Level 4	Exploits wide ranging specialist knowledge of the key stakeholders to offer possible	
	solutions to their needs.		
	Level 5	Provides leadership in support of the management team's strategic decisions. Helps	
		key stakeholders to envisage new ICT solutions, fosters partnerships and creates value	
		propositions.	
Dimension 4	K1 emerging technologies and the relevant market applications		
	K2 museu		
Knowledge	K3 key sta	akeholders needs	
examples	K4 organisation processes and structures		
·	K5 customer need analysis techniques		
Knows/Aware	K6 communication techniques		
of/Familiar with	K7 "Story telling" techniques		
Skills examples	S1 analyse and formalise business processes		
,	S2 analyse customer requirements		
Is able to	S3 present ICT solution cost / benefit		
	S4 match key stakeholders needs with existing products S5 analyse the impact of functional/technical changes on key stakeholders		

Dimension 1	E. MANAGE			
e-Comp. area				
Dimension 2	E.1. Forecast Development			
	Interprets museum and visitors needs and evaluates market acceptance of culture tailored ICT			
e-Competence: Title	products or services. Applies relevant metrics to enable accurate decision making in support of			
+ generic	the devel	the development, implementation and marketing of the museum ICT strategy.		
description				
Dimension 3	Level 1			
e-Competence	Level 2			
proficiency levels e-1 to e-5, related to	Level 3	Exploits skills to provide short-term forecast using visitor inputs and assessing the museum's ICT capabilities.		
EQF levels 3 to 8	Level 4	Acts with wide ranging accountability for the production of a long-term forecast. Understands the global marketplace, identifying and evaluating relevant inputs from the broader business, political and social context.		

	Level 5		
Dimension 4	K1 market size and relevant fluctuations		
	K2 accessibility of the market according to current conditions (e.g. government policies,		
Knowledge	emerging technologies, social and cultural trends, etc.)		
examples	K3 the extended supply chain operation		
	K4 large scale data analysis techniques (data mining)		
Knows/Aware	K5 methods to analyze information and business processes		
of/Familiar with	K6 how business processes are integrated and their dependency upon ICT applications		
	S7 new emerging technologies (e.g. distributed systems, virtualisation, mobility, data sets)		
	S8 museum and visitor needs		
	S9 museum and visitor need analysis techniques		
Skills examples	S1 apply what-if techniques to produce realistic outlooks		
	S2 generate sales forecasts in relation to current market share		
Is able to	S4 compare sales and production forecasts of forthcoming/newly launched ICT tools and		
	solutions and analyse potential mismatches		
	S5 interpret external research data and analyse information		
	S6 identify business advantages and improvements of adopting emerging technologies for the		
	museum		
	S7 analyze future developments in business process and technology application		
	S8 analyze feasibility in terms of costs and benefits		
	S9 match museum and visitor needs with products in the market		

Dimension 1	E. MANAGE		
e-Comp. area			
Dimension 2	E.3. Risk Management		
	Advises o	Advises on the implementation of the management of risk across information systems through	
e-Competence: Title	the application of the museum defined risk management policy and procedure. Assesses risk to		
+ generic	the muse	the museum's business, including web, cloud and mobile resources. Documents potential risk	
description	and conta	ainment plans.	
Dimension 3	Level 1		
e-Competence	Level 2	Understands the principles of risk management and investigates ICT solutions to mitigate identified risks.	
proficiency levels e-1 to e-5, related to	Level 3	Advises on appropriate actions required to adapt security and address risk exposure. Evaluates, manages and ensures validation of exceptions.	
EQF levels 3 to 8	Level 4	Provides leadership to define guidelines for developing a policy for risk management	
		by considering all the possible constraints, including technical, economic and political	
		issues. Delegates assignments.	
	Level 5		
Dimension 4	K1 corporate values and interests to apply risk analysis taking into account corporate values and		
	interests		
Knowledge	K2 the return on investment compared to risk avoidance		
examples	K3 good practices (methodologies) and standards in risk analysis		
	K4 risk and opportunity assessment techniques		
Knows/Aware	K5 evaluation, design and implementation methodologies		
of/Familiar with			

Skills examples	S1 develop risk management plan to identify required preventative actions		
	S2 communicate and promote the museum's risk analysis outcomes and risk management		
Is able to	processes		
	S3 design and document the processes for risk analysis and management		
	S4 apply mitigation and contingency actions		

Dimension 1	E. MANAGE		
e-Comp. area			
Dimension 2	E.4. Relationship Management		
	Establishes and maintains positive business relationships between stakeholders (internal or		
e-Competence: Title	external) deploying and complying with organisational processes. Maintains regular		
+ generic	communication with museum, staff and technology providers, and addresses needs through empathy with their environment and managing supply chain communications. Ensures that		
description			
		ler needs, concerns or complaints are understood and addressed in accordance with	
	the muse	um's ICT policy.	
Dimension 3	Level 1		
e-Competence	Level 2		
proficiency levels	Level 3	Accounts for own and others actions in managing a limited number of stakeholders.	
e-1 to e-5, related to EQF levels 3 to 8	Level 4	Authorises investment in new and existing relationships. Leads the design of a workable procedure for maintaining positive business relationships.	
	Level 5		
Dimension 4	K1 museu	ım processes including, decision making, budgets and management structure	
	K2 museum's and other stakeholders' objectives		
Knowledge	K3 how to measure and apply resources to meet stakeholder requirements		
examples	K4 museum's challenges and risks		
	K5 museums, staff and technology providers needs		
Knows/Aware	K6 interpersonal skills		
of/Familiar with			
Skills examples	S1 deploy empathy to towards museum staff needs		
	S2 identify potential win win opportunities for user/visitor and museum		
Is able to	S3 establish realistic expectations to support development of mutual trust		
	S4 monito	or ongoing commitments to ensure fulfilment	
	S5 communicate good and bad news to avoid surprises		
	S6 meet r	museums, staff and technology providers needs	
	S7 communicate (incl. in foreign languages if useful)		
	S8 explain (defend, argue, justify)		

Dimension 1	E. MANAGE
e-Comp. area	
Dimension 2	E.5. Process Improvement
	Measures effectiveness of existing ICT processes (if any). Researches and benchmarks ICT
e-Competence: Title	process design from a variety of sources. Follows a systematic methodology to evaluate, design
+ generic	and implement process or technology changes for measurable business benefit. Assesses
description	potential adverse consequences of process change.

Dimension 3	Level 1	
o-Compatance	Level 2	
e-Competence proficiency levels e-1 to e-5, related to EQF levels 3 to 8	Level 3	Exploits specialist knowledge to research existing ICT processes and solutions in order to define possible innovations. Makes recommendations based on reasoned arguments.
	Level 4	Provides leadership and advises on the implementation of innovations and improvements that will enhance competitiveness or efficiency. Demonstrates to senior management the business advantage of potential changes.
	Level 5	
Dimension 4	K1 research methods, benchmarks and measurements methods	
	K2 evaluation, design and implementation methodologies	
Knowledge	K3 existing internal processes	
examples	K4 relevant developments in ICT (e.g. virtualisation, open data, etc.), and the potential impact on processes	
Knows/Aware	K5 web, cloud and mobile.technologies	
of/Familiar with	K6 resource optimisation and waste reduction	
	K7 how museum's business processes are integrated and their dependency upon ICT applications	
Skills examples	S1 compose, document and catalogue essential processes and procedures	
	S2 propose process changes to facilitate and rationalise improvements	
Is able to	S3 implement process changes	
	S4 identify business advantages and improvements of adopting emerging technologies for the	
	museum	
	S5 be inn	ovative, creative
	S6 explair	n (defend, argue, justify)

Dimension 1	E. MANAGE			
e-Comp. area				
Dimension 2		E.6. ICT Quality Management		
		Advises on the implementation of ICT quality policy to maintain and enhance museum services.		
e-Competence: Title	Plans and	Plans and defines indicators to manage quality with respect to ICT strategy. Reviews quality		
+ generic	measures	s and recommends enhancements to influence continuous quality improvement.		
description				
Dimension 3	Level 1			
e-Competence	Level 2	Communicates and monitors application of the museum's ICT quality policy.		
proficiency levels	Level 3	Evaluates quality management indicators and processes based on the museum's ICT		
e-1 to e-5, related to		quality policy and proposes remedial action.		
EQF levels 3 to 8	Level 4	Assesses and estimates the degree to which quality requirements have been met and		
LQI IEVEIS 5 to 6	2070	provides leadership for quality policy implementation. Provides cross functional		
		leadership for setting and exceeding quality standards.		
	Level 5	reduction for setting and exceeding quanty standards.		
	Level 3			
Dimension 4	K1 which	methods, tools and procedure are applied within the museum and where they should		
	be applied			
Knowledge	K2 the IS internal quality audit approach			
examples	K3 regulations and standards in energy efficiency and e-waste			

	K4 ICT quality standards
Knows/Aware	K5 the museum's enterprise architecture and internal standards
of/Familiar with	K6 web, cloud and mobile technologies and environmental requirements
	K7 technologies and standards to be used during the deployment
	K8 potential and opportunities of relevant standards and best practices
Skills examples	S1 illustrate how methods, tools and procedures can be applied to implement the museum's
	quality policy
Is able to	S2 evaluate and analyse process steps to identify strengths and weaknesses
	S3 assist process owners in the choice and use of measures to evaluate effectiveness and
	efficiency of the overall process
	S4 monitor, understand and act upon quality indicators
	S5 perform quality audits
	S6 be ethical

Dimension 1	E. MANAGE			
e-Comp. area				
Dimension 2	E.7. Business Change Management			
		Assesses the implications of new digital solutions in museums. Defines the requirements and		
e-Competence: Title		quantifies the business benefits for the museum. Advises management on the deployment of		
+ generic	change taking into account structural and cultural issues. Maintains business and process			
description		y throughout change, monitoring the impact, taking any required remedial action and		
	refining a	pproach.		
Dimension 3	Level 1			
e-Competence	Level 2			
proficiency levels	Level 3	Evaluates change requirements and exploits specialist skills to identify possible		
e-1 to e-5, related to		methods and standards that can be deployed.		
EQF levels 3 to 8	Level 4	Provides leadership to plan, manage and implement significant ICT led change.		
	Level 5	Applies pervasive influence to embed organisational change.		
Dimension 4	K1 digital strategies			
	K2 the im	K2 the impact of business changes on the museum and human resources		
Knowledge	K3 the im	K3 the impact of business changes on legal issues		
examples	K4 business processes are integrated and their dependency upon ICT applications			
	S5 museum business strategy and processes			
Knows/Aware	S6 methods to analyse information and business processes			
of/Familiar with	S7 evaluation, design and implementation methodologies			
Skills examples	S1 analyse costs and benefits of museum's business changes			
	S2 select appropriate ICT solutions based upon benefit, risks and overall impact			
Is able to	S3 constr	uct and document a plan for implementation of process enhancements		
	S4 apply project management standards and tools			
	S5 identify business advantages and improvements of adopting emerging technologies			
	S6 analyse future developments in business process and technology application			
	S7 review and analyse effects of implementations			
	S8 explain (defend, argue, justify)			