



Workshop IT Star 2015

e-CF*plus* System to support ICT Professional Portfolio Management

Roberto Bellini AICA October, 16° 2015





agenda

- 1. AICA experience to build up an e-Cf*plus* System to support ICT Professional Portfolio Management
- 2. The results of an e-Cf*plus* System application
 - For the individual professional and manager
 - For the Enterprise / Public Administration (CIO and/or CHRM)





How to build up a specialized people management system based on a publick competence framework?

Italy's new norms and AICA's experience

- □ Lex 13/13 established the National Certification System
- UNI published the Norm 11506 in September 2013 based on e-CF
- AICA's and CEPIS's EUCIP experience inspired the adoption of e-CF as a basic framework for ICT Professional Portfolio Management
 - Low level of competence granularity: sufficient for personal orientation in the labour market, with e-CF
 - High level of competence granularity: fit the needs of organizations to manage resources
- **FPM** (*) research supply following recommendations
 - Personalization of Portfolio Profiles
 - > Alignment between competence framework and management system
 - Importance of the System Set up to apply correctly the e-Cfplus system
 - Emerging Trend of digital competence innovation
- AICA's decided to design and realized a new e-CF*plus* System, e-CF compliant, with an updated offering to support competences and profiles management system, including assessment tools and certifications accreditation

(*)FPM-Fondazione Politecnico di Milano



AICA

e-CFplus

per sviuppare le competenze digital

Associazione Italiana per l'Informatica ed il Calcolo Automatico

> Sviluppo Professionale e Formazione ICT

Sviluppare le competenze per creare vantaggio competitivo

e-CFplus, basato sullo standard European e-Competence Framework, è la soluzione

Aziende e professionisti trovano in e-CF/alus un linguaggio comune per definire competenze od esperienze professionali, una struttura condivisa au oui far creacen capachti individuali e vartiaggio competitivo dell'organizzazione.

Utilizzando e-CFp/us aziende aperte al mondo globalizzato possono sviluppare la professionalità dei ioro team informatici e garantire la coerenza tra competenze d ed obietti aziendali.



Objectives

- Specify an ICT enriched competence and profiles portfolio to satisfy following requirements
- Compliancy with Italian Technical UNI Norm 11506, e-CF framework and CWA 16458 on European Professional Profiles
- Sustain the convergens of schools and universities towards a competence and profile system accomplishing ICT discipline and labour market requirements (eCF compliant with EQF)
- Allow to implement and deploy services to manage those competencies and profiles including their certification

e-Cfplus in detail

European e-Competence Framework (e-CF) (*) Based on the e-CF skills, the CEN has defined 23 "European ICT Professional is a structured system of skills that describes high-level knowledge and skills required in the Profiles" which outline some typical ICT context of ICT processes of an organization. It roles in terms of mission, deliverables, key can be used by all types of companies and is activities and KPI. supported by the European Union. In Italy is also supported by the Italian Government. e-CFplus adds the value of detailed and structured knowledge and operational skills, e-CFplus starts from the e-CF framework provides well known methods and web tools to detail in operational terms the manage the assets of business skills in a simple to professional digital skills, and offers tools and effective way. e-CF*plus* can also adapt and to evaluate and develop them. customize the entire system to the specific characteristics of the organization. e-CFplus enriches the 40 e-CF skills with more e-CF covers the entire field of managerial and technical ICT skills through brief descriptions of than 2,200 building blocks grouped into 157 40 skills, divided into several levels (2 to 4) homogeneous sets of knowledge items and according to a scale of 5 "qualifications" skills; these elementary components enrich the compatible with the European Qualification 23 CEN profiles, that can be defined by each Framework (EQF). Each competence is organization, with the possible methodological accompanied by some examples of knowledge support of AICA and skills that delineate their content.

e-CF*plus* is a modular, open and scalable system that defines the skills of an individual, a business unit or corporate department, an entire organization.



Focus on the digital area

e-CF*plus* was conceived, written and reviewed by well-experienced ICT professionals and managers to ensure a vision that is complete, accurate and consistent with the best practices in the industry.

It capitalizes on the experience gained with EUCIP by the Council of European Professional Informatics Societies. It is aligned with CEPIS' and AICA professional certifications, as well as with other relevant frameworks such as ITIL® PMBOK® Guide and AgID Guidelines.

e-CF*plus* can be used in any organization

e-CF*plus* helps professionals understand their position in an organization, see where they can grow, and what they need to advance in their careers.

For organizations, e-CF*plus* helps ICT managers and Human Resources to identify and clearly define the professional development of their employees, and to plan effective training and development activities.

Enriched Competence e-CFplus: D7- Sales Management + (example)

description	services to new or existing customers and prospects. Establishes a sales support procedure providing efficient response to sales enquiries, consistent with company strategy and policy. Establishes a systematic approach to the entire sales process, including understanding customer needs, forecasting, prospect evaluation, negotiation tactics and sales closure.												
Dimension 3	Level 1	Level 2	Level 3	Level 4	Level 5								
e-Competence proficiency levels e-1 to e- 5, related to EQF levels 3 to 8			Contributes to the sales process by effectively presenting products or services to customers.	Assesses and estimates appropriate sales strategies to deliver company results. Decides and allocates annual sales targets and adjusts incentives to meet market conditions.	Assumes ultimate responsibility for the sales performance of the organisation. Authorises resource allocation, prioritises product and service promotions, advises board directors of sales performance.								
Dimension 4 Knowledge examples Knows/ aware of/ familiar with	K2 comp K3 mark K4 legal, K5 proje	K1 customer organisation (needs, budget allocation and decision makers) K2 company specific processes (sales, ITIL, etc.) K3 market trends and own service offering portfolio K4 legal, financial and contractual rules K5 project management procedures K6 current market imperatives e.g. risks, changes, innovation											
Skills examples Is able to	S2 keep to intern S3 react internall S4 gener	S1 develop strong co-operation between customers and own organisation S2 keep abreast of market news e.g. risks, changes, innovations and communicate to internal business units, to improve service and product portfolio S3 react proactively to customer business changes and communicate them internally S4 generate sustainable customer relationships S5 analyse sales performance to build forecasts and develop a tactical sales plan											

Drives the achievement of sales results through the establishment of a sales

.

strategy. Demonstrates the added value of the organisations products and

Dimension 2

e-competence:

Title + generic

description

D.7. Sales Management

Tipo	Dimensione 4
ĸ	Market and technology trends
к	Market and customer needs
к	Company's product and services portfolio and the match of it with customer's needs
к	Legal, financial, contractual rules and related company's policies
к	Current market imperatives (e.g. risks, business changes, innovation)
S	Coordinate he development and get company's approval of the Sales and Marketing Plan
S	Outline and control the application of a sistematic sales process integrated with the bid
	managemet process
S	Define the sales and sales suport organization
S	Define the company's sales budget and assign targets to sales organization
S	Define the incentive plan
S	Allocate sales resources and promotional costs
S	Monitor sales results and approve forecast
S	Keep abreast of market news (e.g. risks, business changes, innovations) and communicate to
	internal business units, to improve service and product portfolio
к	Impact on sales processes of different jurisdictions and tax systems, including specific laws
	on contracts, IT suppliers and labour regulations wherever applicable.
к	Basic marketing principles and methodologies
к	Product/service lifecycle models
S	Apply business-to-business marketing and sales strategies for IT products and services to
	different market sectors (e.g. construction industry, manufacturing financial services)
S	Promote collection of customer feedback using tools like social media, online surveys.
S	Promote the employing organisation, its IT products and services through a proactive
	collaboration with the marketing department
S	Contribute to developement corporate image, public relation and communication
S	Contribute to market researches and product marketing
S	Contribute to identification of business drivers
S	Contribute to competitive positioning
S	Contribute to development of short and long term objectives
S	Play an active role in defining and deploying marketing campaigns
S	Play an active role in defining prices and discounts and standard quotations
S	Play an active role in defining classification and management of business opportunities
S	Play an active role in elaborating sales analysis, forecasting and resource planning
S	Analyse target markets, also using Business Intelligence tools to class?
	evaluate potential targets
S	Analyse competitors, their offering an
S	Use SWOT
S	Appreci 98
	Item!

Enriched Profile e-CF*plus*: Account Manager + (example)

e-CF*plus* System

Profile title	ACCOUNT MANAGER (1)											
Summary statement	Senior focal point for client sales and customer satisfaction.											
Mission	software, telecommunica manages sourcing and de	Builds business relationships with clients to facilitate the sale of hardware, software, telecommunications or ICT services. Identifies opportunities and manages sourcing and delivery of products to customers. Has responsibility for achieving sales targets and maintaining profitability.										
Deliverables	Accountable Responsible Contributor											
	Sale Business Relationship											
Main task/s	 Maintain overall customer satisfaction with products and/or services Identify opportunities to propose new products or services to client(s) Be the primary contact point for client executive management Deliver value added presentations related to products and services to customer executive management Lead negotiations to establish profitable contracts with client(s) Maintain and enhance business relationships 											
e-competences	D.5. Sales Proposal Development Level 4											
(from e-CF)	D.7. Sales Management		Level 5									
	E.1. Forecast Developme	Level 3										
	E.4. Relationship Manage	Level 4										
	D.6. Channel Manageme	D.6. Channel Management										

Profile Title	ACCOUNT MANA (1)												
e-	D.5. Sales Proposal Development	Level 3	Set 1, 2, 3										
competen ces	D.7. Sales Management	Level 5	Set 1, 2, 5										
(from e- CS v.0)-	E.1. Forecast Development	Level 3	Set 1										
CS V.0 <i>)</i> -	E.4. Relationship Management	Level 4	Set 1										
	D.5. Channel Management	Level 4	Set 1, 2										
	A.1. IS and Business Strategy Alignment	Level 4	Set 1, 3										
	A.3. Business Plan Development	Level 3	Set 1										
	E.7. Business Change Management	Level 3	Set 1, 2										
	E.9. IS Governance	Level 4	Set 2										
	A.7. Technology Trend Monitoring	Level 4	Set 1										
	E.2. Project and Portfolio Management	Level 2	Set 1										

AICA Associazione Italiana per l'Informatica ed il Calcolo Automatico AICA Associazione Italiana per l'Informatica e-CF*plus*: the tools System

e-CF*plus* provides well known methods and web tools to manage the assets of individual and business skills in a simple and effective way, allowing you to adapt and customize the entire system to each specific organization.

The main web tools provided to professionals and companies are the **e-Competence Benchmark** and **e-Competence Management.**

e-Competence Benchmark allows individual specialists to assess the level of their e-CF (v.2.0) skills and their position compared to 23 European ICT professional profiles defined by CEN.

It is a simple and free system that provides a synthetic, indicative and standardized vision of individual skills.

www.cepis.org/ecompetencebenchmark

e-Competence Management is a system designed for enterprise use that provides a vision that is analytical and concise, accurate and customizable of the individual and organization skills; in particular it provides:

- standard individual reports;
- •customized reports for individuals, departments, organizations, professional families,...;
- integration with leading systems of human resources management;
- •analysis of individual and organizational gaps related to the 23 CEN profiles, the 21 EUCIP profiles, and the profiles and functions defined by the organization;
- •personalization of the standard model skills (elimination of irrelevant skills, adding specific business/sector expertise, ...)
- •methodological and operational support.



e-CF*plus* System

6 e-CF*plus* profiles families to be managed in the ICT professional system proposed by AICA

compliant Ŭ Ŏ ወ X CFp/u ener D

MANAGE-business management
Business information manager +
Chief Information Officer +
ICT operation manager +

PLAN-design
Business analyst +
Systema analyst +
Enterprise architect +
System architect +

RUN-service&operations
Data Base administrator +
Service desk agent +
System administrator +
Network specialist +

Technical specialist +

MANAGE-technical management
 Quality assurance manager +
 ICT Security manager +
 ICT Project manager +
 Service manager +
 BUILD-development

- Developer +
 Digital media specialist +
- Test specialist +

ENABLE-support
ICT Consultant +
Account Manager +
ICT Trainer +
ICT Security specialist +





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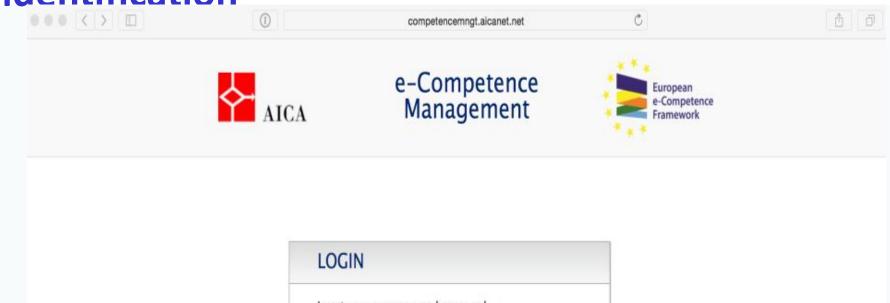


The e-CF based reference model for ICT Human Resource Management

Focus on persons | Focus on IT org. (KPI) certification **Needs** capturing <u>es</u> and K/S/P systems evolution nagement responsibiliti verification learning Professional Career evalutation and Recruitement Com ssess and **Organizational** mai and nalysi and in res ategy **Furnover** qualification **Training** roles, Performance and Gap coverage and delta exploitation

Assessment Tool – Personal identification

e-CF*plus* System



nsert your username and password	
Usemame	
Password	Enter
Forgot your password?	

Download user manual

e-Competence Management (C) 2014 AICA is a registered mark of Associazione Italiana per l'informatica ed il Calcolo Automatico with an address at p.le Morandi, 2 20121 Milano, Italy. AICA Logos are registered trade marks and cannot be used without express permission. All rights reserved. The e-Competence Management is based upon a proprietary development of dimension 4 of e-Competence Framework (e-CF). e-CF is a consensus-based specification published by the CEN Workshop on ICT Skills and was co-funded by the European Commission, DC Enterprise and Industry. It is available for download on www.ecompetences.eu and www.ecom.eu

Assessment Tool – Questionnaire on Competencies

			Welcome ricca	rdo scquizzato	LOGOUT
he questionnaire			•	Change your pa	ssword
king into account what is require valuation Criteria: . Yes = application of the compe . No = no application of the com	ease indicate if you currently have ed by your current role or any job p tence through direct experience th petence or its application is not re	profile to which you aspire. Nat is still relevant (i.e. time nec levant any more	essary to resume experienc		
nce you have answered all questi	ons, click the "Save" button follow	ed by "View personal results" be	utton.		
Download user manual	Modify personal information	Export answers to PDF	View personal results	Save	
A-Plan					
effectivenes. Determines the IS a secure environment. Makes st	Alignment requirements, influences improven model and the enterprise architect rategic IS policy decisions for the e 	ure in line with the organisation interprise, including sourcing s	n's policy and ensures	YES *	NO
	t pplicable service level agreements (ormance levels taking into account			YES •	NO
as well as return on investment benefit analysis and reasoned a	ture of a business or product plan propositions. Considers the possit rguments in support of the selecte icates and sells business plan to re	ole and applicable sourcing mo d strategy. Ensures compliance	dels. Presents cost with business and	YES	NO •
Business Case Analysis, Busines	s Plan Economics, Business Plan Co	ommunication			
and weaknesses, with a critical a optimisation of activities and re	g d target status. Estimates cost effe approach. Creates structured plans sources. Manages change requests quirements. Specifies correct handl	; establishes time scales and m . Defines delivery quantity and	ilestones, ensuring provides an overview	YES •	NO
operate the IS architecture. Iden applications, processes, information	makes available a formal approach tifies change requirements and th ation and technology platform. Tak nt between business evolution and	e components involved: hardwa es into account interoperability	ire, software,	YES	NO •
Systems Architecture Definition, Computing Architecture	Enterprise Applications Architectu	are, Industrial Automation Arch	itecture, Distributed		

Assessment Tool – Questionnaire on Proficiency levels

A.1. IS and Business Strategy Alignment Anticipates long term business requirements, influences improvement of organ Determines the IS model and the enterprise architecture in line with the organis Makes strategic IS policy decisions for the enterprise, including sourcing strateg	YES 💿	NO		
Business Analysis and Modelling, ICT Strategic Planning, ICT Strategic Choices				
Please select ALL still relevant proficier	cy levels (select one or more as required)			
Level 4	Level 5			
Provides leadership for the construction and implementation of long term innovative IS solutions.	sus and commitn	nent from		
\checkmark				
			ОК	
A.2. Service Level Management Defines, validates and makes applicable service level agreements (SLAs) and une Negotiates service performance levels taking into account the needs and capaci		YES 💿	NO	
A.3. Business Plan Development Addresses the design and structure of a business or product plan including the as return on investment propositions. Considers the possible and applicable so reasoned arguments in support of the selected strategy. Ensures compliance wi Communicates and sells business plan to relevant stakeholders and addresses p	rcing models. Presents cost benefit analysis and the business and technology strategies.	YES	NO 💿	
Business Case Analysis, Business Plan Economics, Business Plan Communication				

Assessment Tool – Personal Results

Welcome riccardo scguizzato LOGOUT Back to guestionnaire Export to PDF Personal results The "radar" below shows you the profile closest to your declared competences (i.e. your The list below shows how close your results are "proximity profile"). to a complete range of professional profiles. To view a detailed version of any of these A list of related competences is presented below the radar, showing competences to be improved results, click on the small radar icon beside the and competences you have in excess of the required level for this profile. profile title. Your Report for the profile "ICT TRAINER" for riccardo scguizzato View report to this profile Each professional profile has different weights assigned to the technical competences needed by an ICT professional. The proximity index is calculated by considering the coverage of the CT TRAINER declared competences with respect to the profile requirements; it does not consider competences that are held in excess of the required levels. PROJECT MANAGER All the profile competences are clustered in line with the 5 main e-CF categories: PLAN, BUILD, RUN, ENABLE, MANAGE. CHIEF INFORMATION OFFICER (CIO) C) ICT DA BT DA **OPERATIONS** MANAGER 0.5 C) ICT CONSULTANT QUALITY ASSURANCE MANAGER BUSINESS ANALYST CA DEVELOPER C) TEST SPECIALIST 2.3 BUSINESS **INFORMATION**

proximity View profile 91.26 % 75.88 % 0 53.85 % 50.85 % 0 46.38 % 0 40.17% 38.85 % 0 37.49% 33.72 % 0 31.74% MANAGER O DIGITAL MEDIA 27.69% SPECIALIST ACCOUNT 24.81 % MANAGER A ENTERPRISE 23.83 % 0 ARCHITECT

Assessment Tool – Personal Results

The profile "PROJECT MANAGER" with a proximity index of 75.88%.

The graphic shows, in the spaces between the internal and the external circles, the level of competence possessed for the represented professional profile.

Each sector width is proportional to the relevance of the related competence within the selected profile.



GREEN Competences required by the represented profile.

RED Competences required by the represented profile where you have a AREAS deficiency.

BLUE Competences that you have that exceed those required by the AREAS represented profile.

A red colour in the external ring indicates that significant competence deficiencies exist in that area for the represented profile.

Main competences and related proficiency levels to develop further to better match with the profile "PROJECT MANAGER" (only relevant deficiencies are listed):

A.4. Product / Service Planning Set A.4a - Product/Service Planning

E.2. Project and Portfolio Management

Set E.2b - Project Integration Management

Set E.2c - Project Scope Management

Set E.2f - Project Quality Management

Set E.2i - Project Risk Management

Set E.2j - Project Procurement Management

Set E.21 - Project and Portfolio Management Tools

E.3. Risk Management

Set E.3b - Risk Assessment

Set E.3c - Risk Management and Monitoring

E.7. Business Change Management

Lev 3 - Evaluates change requirements and exploits specialist skills to identify possible methods and standards that can be deployed.

Set E.7b - Business Change Deployment



e-CF*plus* System

Comparaison among declaired profiles and proximity profiles

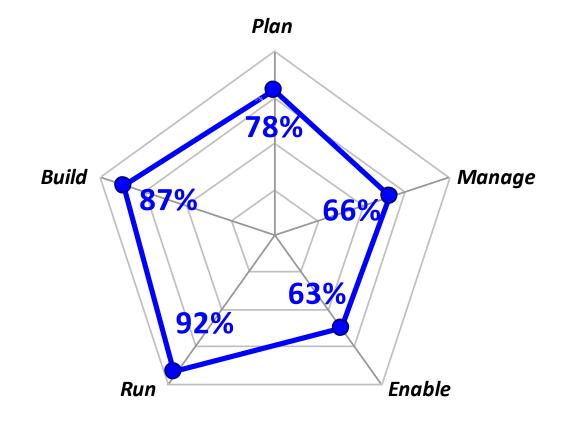
Chief Information Officer **Business Information** ICT Operations Manager **Business Analyst** Systems Analyst Enterprise Architect Systems Architect Developer Digital Media Specialist Test Specialist Account Manager ICT Trainer ICT Security Specialist ICT Consultant Database Administrator Systems Administrator Network Specialist Technical Specialist Service Desk Agent Quality Assurance ICT Security Manager **Project Manager** Service Manager 10% 15% 20% 0% 5%

25%



e-CF*plus* System

Total Competence Proficiency Index of Professional Portfolio







Competence gaps per single resocurce

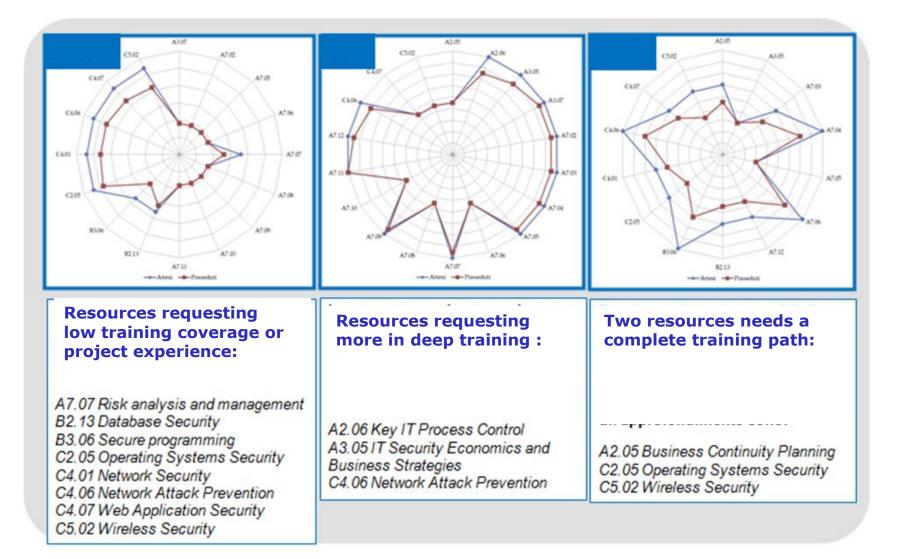
Profilo: Chief Information Officer		Ð			Liv	ello Di	co Spo			ze					Ga	р				
		 Livello Competenze	Richieste	Adele	Enrico	Giovanna	Mario	Paola	Roberto	Teresa	Vito	Adele	Enrico	Giovanna	Mario	Paola	Roberto	Teresa	Vito	
Z	A01	Allineamento strategie SI e di business	5		1	0	4	0	0	5	3	4	4	5	1	5	5	0	2	1
PLAN	A03	Sviluppo del business plan	5		1	0	0	4	0	1	3	4	4	5	5	1	5	4	2	1
ЭE	E02	Gestione del progetto e del portfolio	5		5	5	0	2	0	0	0	0	0	0	5	3	5	5	5	5
MANAGE	E04	Gestione delle relazioni	4	,	0	3	2	2	0	4	0	4	4	1	2	2	4	0	4	0
Ź	E09	IS governance	5		0	4	4	0	5	0	0	0	5	1	1	5	0	5	5	5

Legenda

- -x Numero di livelli posseduti eccedenti quello richiesto [con x=1,2,...]
- 0 Coincidenza fra livello richiesto e posseduto
- **1** Gap di un livello rispetto a quello richiesto
- x Gap di x livelli rispetto a quello richiesto [con x=2,3,...]



e-CF*plus* System **Results examples for management (CIO & CHRM)**





EUCIP and e-CFplus **Italian best practices**

ICT Users

MEF Dip. Finanze

Rag. Gen. dello Stato

CIC

ICT Vendors

ABI

Consip

Datasiel

AISIS

Praxi

British Telecom

Postecom

Almaviva

IBM It



Banca d'Italia

INAIL

Finmeccanica

Poste Italiane

Informatica Trentina

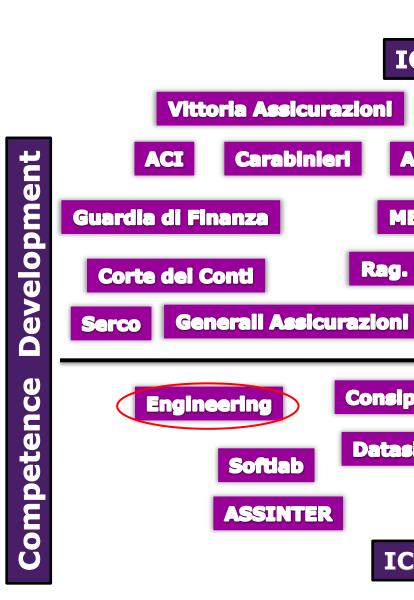
Cap Gemini It

Whirpool

ENI

Sacchi

HP





Thanks for your attention

r.bellini@aicanet.it

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