

How are University CIOs Be Trained in 2024? The French Touch

Bertrand Mocquet, Emmanuelle Vivier Leloire, Romuald Arnold

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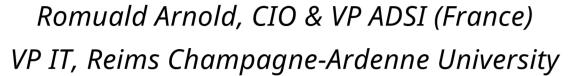
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Bertrand Mocquet, Digital Expert, Amue (France) Associate researcher, Bordeaux Montaigne University

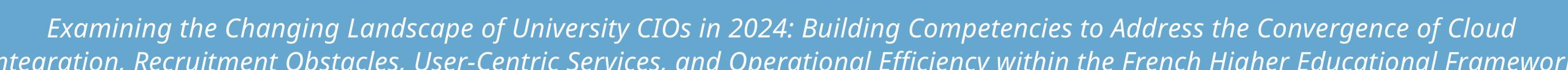
Emmanuelle Vivier, CIO & VP CSIESR (France) CIO, University of Picardie Jules Verne











How are university CIOs trained in 2024? Me tremon Jouch

Integration, Recruitment Obstacles, User-Centric Services, and Operational Efficiency within the French Higher Educational Framework

Affiliations



- ADSI is The A-DSI is a national association facilitating exchanges between ESR IT departments on management and organizational issues as well as on the challenges of setting up an IT department in establishments.
- Amue is a French shared-services agency devoted to foster innovation among universities and other Higher Education and Research Institutions
- CSIESR is a french national association of IT staff in higher education and research promoting training and pooling of practices.



STAKEHOLDERS AND ORGANIZATION

Co-constructed training

Education and France Universités.

institutional or private players.

INTRODUCTION

Project ownership

Project management

co-constructe

The Institut des hautes études de l'éducation et de la

national authority. The IH2EF provides a centralized

This single location enables the organization of cross-

trade sequences within the training modules (e.g.:

Digital Department / Heritage Department or Digital

Trainees are accommodated on-site for the duration of

the course, which encourages networking and formal

Department / Human Resources Department, etc.).

formation (IH2EF) is a state-run department with

training center for executives in higher education.

DSI training takes place at the IH2EF.

DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE

Institute of Education

Association of

University CIOs

Face-to-face training

and informal exchanges.

the ever-changing landscape of higher education, the role of Chief Information Officers (CIOs) in universities has undergone a profound transformation. As academic institutions increasingly rely on digital technologies to enhance teaching, learning, and administrative processes, the responsibilities of university CIOs have expanded. In the post-Covid context, this evolution is accentuated by a convergence of factors, each presenting specific challenges and opportunities.

At the heart of current discussions about the role of CIOs is the imperative to strengthen their managerial skills. This arises from several developments that are redefining the educational ecosystem. First, the widespread integration of cloud computing technologies has revolutionized the storage, access and analysis of vast amounts of data, requiring expert management to ensure security, efficiency and compliance.

Second, recruitment challenges weigh heavily, as universities compete to attract and retain qualified professionals in a rapidly changing job market.

Moreover, the shift to user-centric services requires CIOs to possess, in addition to their technical skills, a deep understanding of users' needs and preferences, making it essential to strengthen their managerial capabilities to adapt in this context. Finally, the quest for operational efficiency within a constrained budgetary framework highlights the importance of strategic skills for university CIOs.

This poster highlights the role of training in the transformation of university CIOs between 2018 and 2024 in the French educational context, with an emphasis on the need to develop managerial skills.

University Presidents' Association

France Universités

Informaticians

Training: an imperative for a changing university CIO profession



Hybrid training, mostly face-to-face and some distance learning

HOW TO DEVELOP SKILLS?

The training courses organized are linked to the skills repository established for the CIOs professions.

Although training courses are organized around a specific theme, they are also designed to develop cross-functional skills.

There are 5 main areas of focus

- Knowledge
- Managerial skills
- Technical skills
- Project and change management skills
- Personal qualities

Domain of Knowledge

- General knowledge of the issues, developments, and regulatory framework of public policies and their processes of modernization and evaluation in a national and international context.
- In-depth knowledge of the organization of higher education, research, and innovation (ESRI) and the sociology of professions and university organizations.
- Knowledge of budgeting, finance, public procurement, and human resource
- Knowledge of internal and external communication techniques.
- Knowledge of contract law/public procurement
- Knowledge of the legal and ethical framework of the civil service.

Managerial Skills

- CM1 Supervise and lead significant teams with high-level technical managers.
- CM2 Foster team cohesion and promote favorable working conditions for staff.
- CM3 Address the institution's digital evolution needs in the best possible conditions.
- CM4 Ensure the development of staff skills through training, job transformation, and support actions.

Technical Skills

- Make information systems and digital elements understandable for all through targeted
- Master the concepts and architectures of information systems and digital services, technical environments, digital tools, and their uses
- Master quality management concepts.
- Master information system security and the current legislation on information systems and digital services. Ability to identify and consider digital developments, as well as the regional and national
- IT and digital ecosystem. CT6 Proficiency in the English language is mandatory.

Project Management and Change Management Skills

CG1 Master the methodology for managing complex projects.

- Ability to lead cross-functional work groups, plan, and estimate workloads, costs, and
- CG3 Master change management, negotiation, and conflict management techniques.
- QP1 Ability to develop a strategic vision, be creative, and have a sense of innovation.
- QP2 Curiosity about new technologies and their potential applications. Proven managerial competence in leading significant teams, including experienced
- managers; ability to unite teams and delegate.
- QP4 Proven experience in project management.
- QP5 Strong relational, adaptability, and persuasion skills QP6 | Confirmed communication skills.
- QP7 A strong aptitude and preference for teamwork.
- QP8 Listening, facilitation, and negotiation skills
- QP9 Initiative and the ability to be a driving force.

Training objectives and issues QP10 Analytical and synthesis skills.

CAPTURE	Employment and skills issues in CIO in IT departments MA MB MC
MANAGE	Performance, management strategy and optimization of corporate resources M0 MA
KNOW	Team management based on a skills-based approach MB MC
DEVELOP	Digital skills for students and staff MB MC
INTEGRATE	New issues such as forward-looking management of jobs and skills

The training is not mandatory, and remains optional for the universities. It

is based on an institutional mandate from the French Ministry of Higher

It is run by four organizations, and aims to build a collective reflection

based on case studies, feedback, testimonials and analyses from CIOs and

An institutionally supervised training program

run by specialists in developing the

managerial skills of directors of higher

education and two professional associations

of CIOs.



Download the CIO skills repository using the QR code (FR Version)

Each module is based on a professional situation, and enables the mobilization of an element or sub-element of the reference system.

In this way, training covers all the required areas.

A modular training architecture MO MB Module A Module B: Managing the Module 0: mproving digital ${\cal M}$ anaging the taking up a strategy in evolution of new post digital skills higher education 16h 16h 16h

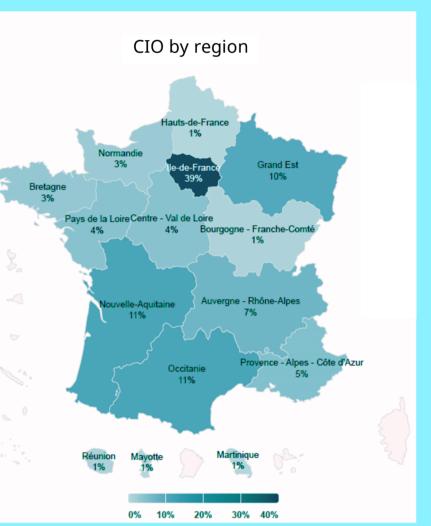
KEY DATA IN PROGRESS

The data comes from training courses carried out between September 2018 and June 2024.

The cycle began with 4 modules, and in 2020 a new cycle was introduced to develop cross-functional management skills.

Data cross-referencing: Cycle/module

Data collected between September 2018 and June 2024



191 registrations over the past 6 years, including 114 unique CIOs, representing 68 universities and 27 other establishments

In France, there are about 80 universities and 100 public institutions.

Geographical breakdown of training participants

PEDAGOGICAL METHODS

The course alternates between theoretical input and shared experience with experienced CIOs

from higher education and other public and private organizations. These conferences are designed to prepare

participants for the collaborative resolution of problems specific to each module: a real-life scenario, enabling them to mobilize skills from the reference framework.

At the end of each module, participants propose a solution in the form of an oral presentation, in a setting simulating a budget dialogue with the trainers.

of resources such as press articles,

scientific publications and popular

outside of face-to-face sessions.

Alternating transmissive moments and real-life problem-solving activities.

The deliverable is an oral presentation to the trainers.

amues Tableau de bord Mes formations Catégories SI - Module B - 2024 - Détecter et accompagner les compétences numériques dans A Moodle platform accompanies the training, providing early access to a variety de formations Module B - 2024 - Détecter et accompagner les ompétences numériques dans la DSI, dans les projets ationaux et dans l'établissement documents on digital management in universities. Participants also upload their IHZEF amue A-DSI CSIESR own productions, and a forum is available to facilitate exchanges between learners 1 2 3 4 5 6 7

One inter-directional module and tree module for CIOs

A moodle LMS for training

CONCLUSION

Networked training, based on the development of essentially managerial skills by and for peers, has established itself as a solid foundation for the future.

Thanks to this collaborative framework, participants have not only enriched their

know-how, but also strengthened their professional ties. The success of this initiative, both in terms of participants' satisfaction and the momentum generated, justifies its continuation.

While we are already preparing the next cycle, we remain open to your ideas and suggestions for further enriching this collective experience.

By developing professional skills in real-life situations, we improve the ability to carry out job-related tasks and responsibilities.



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