Research Article

Sandwich Training in Higher Education as one Major Strategic Axis at the Heart of the Attractiveness of a Territory: Some Lessons Learned from the Pioneering Example of the University Institute of Technology Corsica

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Abstract

In today's fast-globalizing world, the much-hyped concept of place branding has become critical for regions in fierce global competition to capture and secure geographically-mobile investment. In this environment, the effort to attract and promote inward investment is a challenge requiring coordination across several fronts, where socio-economic fabric along with skilled qualified human resources emerges high on the list of critical variables. Corsica is an island economy marked by the complete absence of any of the big holdings and multinationals that fuel and forge the worldwide economy. Equally absent are any of the kind of medium-sized enterprises servicing big business that have spearheaded local economies in other regions like Lombardy. Corsica's economic fabric is essentially made up of
small and home businesses, farm smallholdings, artisans and small-scale retail. Given how public-sector capital investment is already hypertrophied, a policy of investment in human capital could be a compelling new opportunity to trigger a dynamic regional development impetus. Leading the way, the University Institute of Technology Corsica, Corsica University’s affiliated school of applied vocational technologies, is demonstrating its ability to act as a structurally engaged facilitator of island-wide spatial planning and regional branding. As a founding pillar in pioneering the emergence of a sandwich-course training system in higher education in Corsica, in 2010 the university made its entire training curriculum fully accessible to all, through the signature of apprenticeship training or vocational qualifications agreements. After highlighting the specific features of the sandwich training policy development process in Corsica as a
shaper of the Regional Vocational Development Programme, this paper brings an analysis of the lessons learned from the pioneering example of the University Institute of Technology Corsica as a dynamic engineer of structured future and regional brand for Corsica.

**Keywords:** sandwich training, employability index, school-to-work transition, regional branding,

**Introduction**

A new and much-hyped concept in the economics literature has now emerged into a major strategic thrust for regions in fierce global competition to capture and secure geographically-mobile investment: *attractiveness*, or *regional branding*. In this
environment, the challenge of cohabiting a two-pronged policy of sustainable development and regional branding requires coordination across several fronts, where early-stage tech entrepreneurship, and human capital feature high on the list of critical variables.

Regional branding is the new paradigm to create jobs, boost inward investment into industry and services, unlock the international marketplace and gain access to new technologies. Winning potential investors is therefore, a major objective for any regional territory, regardless of its development stage (Michalet, 1999). Territorial attractiveness hinges on a series of location-related assets that are made capital by the fact that firms will only locate to sites that can bring competitive advantage. Businesses are receptive to a specific destination-branded
offering that maps out the locational advantage, and on the lookout for specialist skills and local know-how. The attractiveness criteria for a regional brand go way beyond differences in ‘natural’ factor endowment.

Here, public services policy plays a pivotal role in leveraging success factors for place branding, notably through education and vocational training, and through R&D backing. Regional-entrepreneurial dynamics can only be progressively engineered. The process starts by improving the quality of the business environment, after which the second step is to meet the needs expressed by potential investors. This is where educational training strategies are a particularly key factor for spurring the availability of skilled qualified human resources, and unlocking innovative high-potential entrepreneurship (Marchesnay et al,
Extending on this idea, entrepreneurial ecosystems built on the competitiveness clusters model founded on core tech research, and engineered with SMEs enrolled in the governance framework, offer a potential source of sustainable regional-level structural planning and development (Veltz, 1997; Colletis & Pecqueur, 1996). The process ultimately impels the existence of a competitive web of local enterprise. The relationship between Stanford University and Silicon Valley offers a telling example of the positive externalities of a cooperative tech research/training strategy match-up.

Corsica is an island economy marked by the complete absence of any of the big multinationals that fuel and forge the worldwide economy. Equally absent are any of the kind of medium-sized enterprises servicing big business that have spearheaded local
economies in other regions like Lombardy. Corsica's economic fabric is essentially made up of small and home businesses, farm smallholdings, artisans and small-scale retail. Given how public-sector capital investment is already hypertrophied, the private sector looks like the only viable option capable of triggering a dynamic regional development impetus. It would necessarily entailss coordinately forging a duel strategy of training up human resources,, and engaging a technology research process aimed at increasing the needed island-wide competency levels to national and international competency standards frameworks.

Leading the way, the University Institute of Technology Corsica, Corsica University’s affiliated school of applied vocational technologies, is demonstrating its ability to act as a structurally engaged facilitator of island-wide spatial planning and regional
branding. As a founding pillar in pioneering the emergence of a
sandwich-course training system in higher education in Corsica,
in 2010 the university made its entire training curriculum fully
accessible to all through the signature of apprenticeship training
or vocational qualifications agreements. This grass-roots
programme is the outcome of a committed core strategy to
develop partnerships with the island's key social and economic
communities (businesses, community groups and local
authorities), and it plays a fundamental role in shaping, and
selling the most vital valued assets that typify a regional
territory, emerging into a structured destination-brand identity
(simultaneous growth in the employability and quality of school-
to-work transition shown by its human capital, mass shift in the
degree of skill acquisition directly tied to the regional territory's
own organic needs, fluidity of knowledge transfer fully controlled
through sandwich placements, deep sustainable entrepreneurship education, and so on).

It is precisely, this University Institute of Technology Corsica sandwich-student school-to-work transition issue, reframed as pivotal to local regional development strategy, that this paper aims to highlight as a real-world example of how to deal with specific constraints facing a small-island economy.

University Institute of Technology Corsica, Pioneering the Development of a Sandwich-Course Training System in Higher Education in the Corsica Region

The IUT of Corsica faculty created the very first apprenticeship ‘section’ in Corsica-region higher education, back in the
2001/2002 academic year. Originally, targeting just one professionally-oriented undergraduate course (the University Technical Diploma ['DUT'] in *Business and Administrative Management*) enrolling 12 students, the initiative hived off into every single course curriculum on offer. The dynamic momentum engaged by this bridge to the business world sparked the creation of Corsica-region University Placements & Careers Service [CFA UNIV] tasked with handling the promotion, development, and administrative–educative–financial management of the sandwich-course system at the University of Corsica.

At the start of the 2012/2013 academic year (September 2012), the University Institute of Technology Corsica counted 150 sandwich-placement students (i.e. 25% of student enrolment at
the faculty)\textsuperscript{ii} representing 54.4\% of students going through the University of Corsica-led sandwich-placement scheme, and 30\% of sandwich-placement students in Corsica-region higher education as a whole.

\textbf{Sandwich-placement Training in Higher Education as a Shaper of the Regional Vocational Development Programme}

Corsica offers a case-in-point example of an areal region characterized by an ageing labor force, making it necessary to re-align mid-term regional vocational training strategy in response to this inescapable reality. As a major lever of local–regional development and social regulation policy, the island’s vocational training system has to re-adapt its offer to achieve the targeted job-to-training fit. Continuing professional education, and the
sandwich-course system (apprenticeships, sandwich-course internships) are therefore, the two core strands of the same policy platform designed to structure and build the competency levels, qualifications and employability of the employed and unemployed labor force a given territory.

With commentators touting the knowledge economy as the only way out from endemic economic crisis, the University Institute of Technology Corsica has taken a pro-active role by engaging in a process to structure a consolidated, sustainable socio-economic fabric though optimized management of its vocational training/information, guidance services and tailored careers support system. The faculty, thus works in close collaboration with the CFA UNIV, which leaders the annual survey 10 specifically geared to sandwich-placement students (monitoring
school-to-work transition figures for sandwich-course leavers (graduated or not) in March the following year).

**Ministry-Sponsored Surveys on the Transition-to-Work of University Institute of Technology Corsica Graduates**

For this purpose, a specific survey targeted at measuring school-to-work transition by University Institute of Technology Corsica, students were adopted as a performance instrument, but also to provide statistical support to predictive policy building on directions; that future vocational training efforts should take in order to fill human resources gaps in the Corsican socio-economic fabric. This predictive strand is a crucial factor, as the analyses produced are designed to guide the political (CTC)³ and institutional (the University) decision-makers in their
coordinated effort to roadmap a vocational strand of Corsica-region higher education geared to local-specific factors and variables.

The analyses developed are built around nine core focuses:

- The professional status of the sandwich-placement student
- Job level (occupational category)
- The time gap before integrating the current position
- The contract type (long-term, short-term...)
- The in-job salary of the sandwich-placement student
- The job-to-training fit (whether the job position is an extension of curriculum completed)
- Geographic location of the job found
• Structure taking on the sandwich-course leaver (businesses, community groups, local authorities)
• Link to the initial sandwich-placement structure

Moving from Expected Outcomes to Predictive Values Ready to Devise a Structured Sustainable Areal Development Roadmap

Stemming from the University of Corsica’s ministerial accountabilities (nationally-coordinated regional-scale survey led by universities offering a broad-spectrum vocational development curriculum), Corsica-region local government (CTC), simultaneously exercising its mission to promote regional apprenticeship schemes, and its mission to validate the map of regional-scale coverage of training programmes, commissions
the University of Corsica (via the CFA UNIV) to annually provide tangible figures on graduation rates, and school-to-work transition record to inform and shape political policy decisions on the island's Regional Vocational Development Programme (‘PRDF’).

This tool, wielded by regional government, informs mid-term regional vocational training policy, and the aligned coordination of the vocational training paths on offer. To forge the plan, the CTC relies on active input from the Corsica’s educative, economic and social community networks.

*Close-up look at the school-to-work transition record of sandwich-placement students leaving the University Institute of Technology Corsica in 2011 and 2012*
The University Institute of Technology—Corsica vocational curriculum courses surveyed illustrates five core activity areas representative of university teaching, opened up to directly fill gaps in the island-wide socio-economic fabric.

**Management:** DUT [university technical diploma] in Business and Administrative Management (‘DUT GEA’); LP [national professional-vocational bachelor's degree] in Entrepreneurship (‘LP E’); LP Banking and Finance

**Commerce:** DUT Marketing Techniques; LP Commerce: value creation and food-industry products
Computing and Communications: DUT Communication Networks and Services; LP Audiovisual techniques; DU [university-issue degree diploma] in Audiovisual engineering

Industry: DUT Civil Engineering, DUT Biological Engineering (biotech and food-farming industries), LP Food–Farming Quality Engineering, LP Civil Engineering & Construction

Environment: DUT Biological Engineering (environmental engineering); DUT Health–Safety–Environment; LP Water and Environmental Governance; LP Energy and Climate Engineering – renewable resource management.

The set covers a total 16 courses (7 DUT, 8 LP and 1 DU) enrolling 190 students.
Report and Analysis of the Main Findings

a) Breakdown distribution of sandwich-placement students in the 5 core activity areas representative of university teaching opened up to directly fill gaps in the island-wide socio-economic fabric

Please see Figure 1 in the PDF version

b) Career situation of sandwich-course leavers

Please see Figure 2 in the PDF version

c) Types of job contracts held by sandwich-course leavers
Please see Figure 3 in the PDF version

d) Types of occupational categories held by sandwich-course leavers

Please see Figure 4 in the PDF version

e) Job-to-training fit for sandwich-course leavers

Please see Figure 5 in the PDF version

f) Sector structures taking on sandwich-course leavers

Please see Figure 6 in the PDF version
g) Size of structures taking on sandwich-course leavers

Please see Figure 7 in the PDF version

h) Geographic location of jobs found by sandwich-course leavers

Please see Figure 8 in the PDF version

i) Salary brackets of job contracts held by sandwich-course leavers

Please see Figure 9 in the PDF version
Examples of the kinds of jobs held by sandwich-course leavers

- Sales representative;
- Accountant;
- Research officer;
- Project site supervisor;
- Laboratory technician;
- Construction superintendent;
- Network leakage technician;
- PR assistant;
- Customer support assistant;
- Risk prevention engineer...
k) Situation of sandwich-course leavers continuing in education at another faculty

Please see Figure 10 in the PDF version

h) Reasons pushing sandwich-course leavers to continue education at another faculty

Please see Figure 11 in the PDF version

Conclusion

The survey findings point to particularly encouraging signs on employability and quality of school-to-work transition of University Institute of Technology—Corsica students, especially
in the analysis of targeted job-to-training fit. This grass-roots reality opens up promising future perspectives for a structured entrepreneurial fabric in Corsica built on the sandwich-course system platform, where placement businesses are centrally empowered to train up young local talent.

Ultimately, the overriding objective remains to successfully coordinate the impetus given to vocational training as a solution to fill gaps in the island-wide socio-economic fabric (maximization of the job-to-education fit) through the emergence of sandwich-course training channels (tiers III, II and I). Moving towards this objective, the findings of the joint-led University Institute of Technology—Corsica/CFA UNIV surveys provide regional public policymakers with positive concrete guidance.
From this perspective, the joint expertise of the University Institute of Technology—Corsica, and the CFA UNIV brings insights that are liable to guide strategic decisions on vocational training policy, employment policy, and how to structurally shape the island as a social and economic area. These findings will be presented as part of a wider initiative to build a policy decision support tool focused on the theme of areal planning, and regional branding for Corsica.

References


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i As of September 2010, the entire University Institute of Technology Corsica curriculum (6 DUTs and 9 licences professionnelles [national professional-vocational bachelor's degrees]) is on offer under sandwich placement agreements.

ii A figure that puts the IUT de Corse top of the national league table in terms of sandwich–to–campus ratio (ADIUT, 2013).

iii Collectivité Territoriale de Corse : Corsica-region local government
The CTC is also the system’s leading sourcing of funding via the *Contrat d’Objectifs et de Moyens* [service objectives and infrastructure spending agreement] signed between French central government and the French regional divisions.

From primary school education through to post-secondary higher education – a central government-sponsored mission that was devolved to the CTC via French decentralization policy on Corsica under the law dated 22 January 2002 (see French government decree 2002-92 dated 22 January 2002 concerning Corsica).

The raw data and the findings reported here are taken from annual survey 10 conducted by the CFA UNIV.
Exact figures put the survey response rates from the sandwich-placement students concerned at 91.8% in 2011 (113 respondents out of 123 surveyed) and 79.1% in 2012 (53 respondents out of 67 surveyed).