

Action Plan of the CARPE DIGEM Project: Nièvre numérique Catalysing Regions in Peripheral and Emerging Europe towards Digital Innovation Ecosystems



Partner : Nièvre Numérique/Digital Nièvre

Policy Instrument: Territorial Development Pact for the Nièvre, March 2022 amendment.

New measure under Objective 3: reinforcing the potential of key product chains within the county; Action 35: Support for the development of short supply chains connected to Territorial Food Projects supporting local and sustainable food supply for local and sustainable food.

The Territorial Development Pact states (adapted from the French): This action designed to increase access and supply of local and sustainable food is designed to both respond to consumers' demand and to support more wider ecological transition; the state has defined, in the framework of the (national) EGALIM law (which has created a framework for the percentages of sustainable food products to be used in public sector catering, particularly schools, new guidelines concerning the development of short supply chains.

In addition, the recent health crisis has brought to the fore the need to regain food sovereignty, accelerate the agro-ecological transition to healthy transition to healthy, sustainable and local food for all. The actions included in the TFPs or PATs; with the aim to support, structure and make coherent all local initiatives related to food ...with a view to developing food resilience and to support territorial dynamics to develop short supply chains (these are supply chains where there is no more than a single intermediary).

The State (including France Relance) and the local authorities concerned (the Burgundy Franche-Comté region, the County/Département of the Nièvre and the Urban District of the Pays or strategic rural development districts of the Pays Nivernais Morvan and the Val de Loire Nivernais undertake to:

1. finance the engineering needs to develop Territorial Food Projects.
2. support the actions developed in the framework of these TFP's.

Original Policy Instrument in AF: Regional Programme Bourgogne ERDF/ESF 2014-2020 Specific Objective 1b:

Axe I of the OP underlines the need to increase the research and innovation potential of the territory in order to serve the Competitiveness and employment of Burgundian (Nièvre) companies. Measure 1b's objective is to address the challenge of facilitating and encouraging the emergence of new fields of innovation. The measure underlines the need to strengthen

relations with Competence Centers and (the wider digital innovation ecosystem) to amplify the dynamic of creating innovative enterprises linked to the strategic areas identified by the RIS3.

This policy instrument is no longer valid for the Action plan having ceased calls in 2020 and with there being no opportunity to improve either the governance of the content.

Note: Nièvre numérique investigated the potential of addressing as the PI; the new Operational Program for Burgundy Franche-Comté 2027 Programme Bourgogne-Franche-Comté and massif du Jura ERDF-ESF+ 2021-2027 : Priority 2 To develop a regional economy enhanced by digital transformation, benefitting citizens, business and public authorities. The OP is currently being reviewed by the European Commission with a likely approval date this summer or early autumn. Whilst it is possible that projects within the context of The Division will be submitted under relevant funding calls for the OP. It is not possible at this stage to provide either a reliable guide to submission dates, funding or content of the calls. Any project submissions or successful funding applications however that are directly related to exchange of experience process within CARPE DI GEM will be reported in appropriate Project Reports.



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1 Executive Summary

Note: With the adoption of the *Policy Instrument: Territorial Development Pact for the Nièvre, March 2022 amendment*. *New measure under Objective 3: reinforcing the potential of key product chains within the county; Action 35: Support for the development of short supply chains connected to Territorial Food Projects supporting local and sustainable food supply for local and sustainable food*
The primary objectives of Nièvre Numérique within the CARPE DIGEM project and expressed in its Action Plan continue to be:

- a) to improve the capacity within the Nièvre Digital Innovation Ecosystems (DIGEM) to deliver digital innovation support structures and services to business, public and community stakeholders in the county and in the wider region
- b) to increase the number and frequency of business, public and community stakeholders using existing and improved DIGEM structures/services both with the county of the Nièvre and in the region of Burgundy Franche-Comté
- c) to develop projects that facilitate the two objectives above, inspired by CARPE-DIGEM good practice and led by appropriate local and regional stakeholders
- d) Governance: to increase the involvement of local and regional stakeholders in the co-development and codesign of local and regional innovation support structures

All these four points will be addressed in the Project Nièvre Circuits Courts 4.0/Short Supply Chains 4.0 "Application of digital 4.0 tools to improve the logistics network, the interoperability of platforms and the systems of Local and Solidarity-based Short Food Circuits (CCAPS)" Nièvre Numérique has undertaken a forward-looking approach in order to project the county food system into a vision of 2030. This approach includes the following key objectives:

- ❖ Strengthen cooperation and synergies between Nièvre short supply chains
- ❖ Creating and adapting digital tools to support the the improved efficiency of transport/logistics networks, aiming to improve economic, social and ecological sustainability
- ❖ Optimising short supply chain logistics the through the pooling of transport and the development of a countywide logistics network based on local logistics providers
- ❖ Strengthen and build short food supply chains (in particular for disadvantaged people, who are currently experiencing food insecurity) by developing a 'platform' or package of digital tools including Artificial Intelligence, and integrating tools and procedures developed by national initiatives (such as the Data Food Consortium) and European good practice from CARPE DIGEM partners while paying particular attention to the requirements and needs of local stakeholders; key sectors within the local food economy of the Nievre.

2 General information

- **Project: CARPE DIGEM**
- **Partner organisation: Nièvre numérique/Digital Nièvre**
- Other partner organisations involved (if relevant): in order to optimise stakeholder involvement in the design and eventual delivery of the ACTION Plan and its principal action/project Nièvre Numérique together with the Nièvre County Council created a technical or steering committee for the Nièvre Short Supply Chains 4.0 project consisting of representatives from: Nièvre numérique, Nièvre CC, the University of Burgundy Franche-Comté (vehicle of the Future laboratory); DAVI (a Nevers based SME specialising in AI/4.0 Interoperable platforms and representing the social economy ASEM (LES ACTEURS SOLIDAIRES EN MARCHE) which operates food inclusion projects in the county.

In addition to the technical committee a pilot committee will be created in June including key figures from all major players and sectors in the county food system and from the Regional Council of Burgundy Franche-Comté to support and monitor the delivery of the project. The final composition of this committee will be detailed in the PR 6 report

Country: France

- **NUTS2 region: Burgundy-Franche Comté**
- **Contact person: Clive Peckham**
 - **Email: c.peckham@nievrenumerique.fr**
 - **Phone number:**

3 Policy context

The Action Plan aims to impact:

- Investment for Growth and Jobs programme
- European Territorial Cooperation programme
- Other regional development policy instrument

Name and reference of the policy instrument addressed:

- Territorial development pact for the Nièvre: Launch March 2022: Action n° 35: Support for the development of short circuits in connection with territorial food projects for a local and sustainable food supply for local and sustainable food

4 Actions/services

Note: List all services that are planned to be developed in the Action Plan and also any planned changes to Policy Instrument governance and content (such as new processes for selecting PI priorities or official indicator selection)

The Nièvre Short Supply Chains 4.0 Project will establish a county 'platform'/package of service which will demonstrate how AI and other 4.0 tools can contribute to the efficiency, sustainability and resilience of the constituents and benefits of short food circuits:

- A. This will include mechanisms to link Physical and virtual locations: Shared transport logistics, warehousing, cold storage, cross-docking and shared offices
- B. Creation of shared databases of all actors in the supplier/producer chain; products (B2B and B2C) + common contract/deal templates, product transactions between hubs/network members
- C. Include mechanisms to Reduce food loss and waste through the application of circular economy strategies (initial and intermediate stages of the food supply chain)
- D. Create and improve technology platforms and tools: Shared transaction platforms, inventory systems, supply chain software, billing services and (tailored) customer relationship management systems, personal shoppers, anticipatory needs identification (sensors etc.)
- E. Provide technical and support services: Technical assistance, consultancy and support services, educational materials, best practices and marketing and awareness raising materials

4.1 Background

Note: Write a separate one for each action/service to be developed or for each grouping of services – for example for a Digital Innovation Hub or Competence Centre; new training service or pilot project.

Background:

- i. Nièvre numérique and the Department of Nièvre (CD 58) conducted a first reflection on the use of AI and other 4.0 tools to develop the CCAPS on the whole territory of Nièvre (Autumn 2021)
 - ii. CD58 participated in a working group (WG) on short circuits and logistics, resulting from the reflection of the 3rd Sustainable Food Meeting (RAD3) of the Carasso Foundation which took place between January and March 2021 (French National Initiative)
 - iii. CD58 with NN Nièvre began evaluating the potential of the application of 4.0 tools to short supply chain logistics in the Nièvre) which could serve as a test bed for all the members of the Carasso Working Group and, by extension, for all the actors wishing to invest in this field.
 - iv. This led to a more global project taking into account the 4.0 tools for developing short circuits in the Nièvre in general and in particular for developing the logistics of these supply chains,
 - vi. The CD58 is carrying out this work as part of a global reflection on the food system in the Nièvre through the Nièvre Territorial Food Project (PAT58)
- The digital challenges of developing short circuits also concern the local authority through the public school catering service, where efficient logistics are needed to supply local products in accordance with the EGALIM National law, but also efficient IT resources to avoid or reduce food

wastage, to inform customers and their families, etc. It also deals with the fight against food insecurity, where the use of 4.0 tools can enable better upstream work with food producers and suppliers to better plan production and distribution of surpluses and unused/out of date food in response to real needs

B. The the digital challenges in the development of CCAPS in the Nièvre :

Issue 1: strong increase in online demand for local products

Issue 2: local does not necessarily mean sustainable in terms of logistics

Issue 3: lack of logistical pooling

Issue 4: digitalisation of services to agriculture

i. A first reflection identified the advantages of using artificial intelligence and 4.0 tools in the logistic circuits of short distribution circuits:

a. For producers:

- Updating of data
- Sharing of catalogues:
- Simplifying order management:
- Rationalising stock management :
- Optimised logistics solutions:
- Reducing logistics costs
- Sharing and retrieving their data whenever they want...

b. For short supply chain stakeholders :

- Strengthening cooperation
- Better management of supplies
- Open the way to a mutualisation of transport, responding to logistical, economic and ecological issues.
- Develop the circular economy (for containers and unsold production)

c. For local authorities :

- Support local food production; facilitate the transfer of farms by supporting the development of new outlets for farmers
- Develop and strengthen short supply chains and the supply of local products
- Boost the local economy
- Work with logisticians to build optimised logistical services, minimising the cost and environmental impact of transporting goods (limiting logistical flows and the environmental footprint by pooling transport)
- Create synergies between the actors of short circuits and social and local development actors (social services, third places and integration associations in particular) and support the development of new projects locally

d. For consumers

- The creation of "search portals" or maps that display reliable and up-to-date information in real time on the location and purchasing methods of all local short circuit operators.
- The possibility to find local sources of supply more easily

- The possibility for the most isolated to access fresh produce

e. For local communities and social food stakeholders:

- Facilitating access to unsold goods for food banks and solidarity grocery shops

- Pooling resources on common local development projects

Projects combining local producers and local authorities to set up new supply channels (most vulnerable groups via the CCAS)

Creation of local transport activities for work integration companies

Projects i

4.2 Knowledge applied from CARPE DIGEM

Describe in this section how you are applying the knowledge acquired and lessons learnt from the exchange activities in CARPE DIGEM, in the development of your action plan.

Partner experience and practice (please detail: service name, short description and location)	How this Partner practice has contributed to the services developed in your Action Plan (detail any transfers, full or partial of good practice)
<p>Innovation As a Service: ERNACT, North West Ireland: An independent service delivered by rural digital hub managers to enable rural business and public sector stakeholders to evaluate the appropriateness of new digital products and solutions appropriate to their needs</p>	<p>This Partner practice identified how an existing programme within the Nièvre to establish a countywide network of digital inclusion mediators or intermediaries could expand the scope of its interventions through providing an additional brokerage service, that would enable rural businesses, community and public sector organisations to select the most appropriate digital services and products that respond to their needs. This highlighted the need to provide additional training and support beyond the current digital mediation service which focuses principally on digital literacy and basic digital skills. Whilst this practice has not yet been transferred, it will feature in the planned submission of an Erasmus + Centre of Vocational Excellence application planned for September 2022</p>
<p>Slovenia virtual wine tasting and local producer platform: solutions developed in Slovenian Istria during the Covid 19 crisis to develop alternative product promotion and marketing systems to</p>	<p>This project provided an example of how to use digital tools to support local food economy, and was an inspiration to the Nièvre 'Short Supply chain' 4.0 project. It was presented during the regional stakeholder group meetings which lead to the formation of a technical</p>



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<p>counteract the loss of traditional markets</p>	<p>committee which is steering this project. It will feature in multi-stakeholder workshop planned for June 2022 where the Nièvre Circuits Courts/short supply chain 4.0 roadmap will be produced</p>
<p>Circular hotels, Mallorca: circular economy project where organic waste from hotels is recycled into compost used by local producers supplying both hotels and direct sales outlets</p>	<p>Note : during the early part of the Covid 19 crisis as in Slovenia, food producers in Mallorca had to change from principally supplying tourism to widening their markets to include direct sales to local consumers. The circular hotels project is a perfect complement and additional potential service to the Nièvre Circuits Courts 4.0 project as The project intends to make use of new technologies to identify and quantify the organic waste generated by hotels; catering outlets and community composting schemes</p>
<p>The Remote Working Strategy for Donegal: this project aims to promote County Donegal as an ideal and superb location for remote workers by emphasizing the wide range of alternative work spaces available throughout the County, the supports available to remote workers, the talent pool and the infrastructure and connectivity available across the County.</p>	<p>Both projects have established territorial skills and hubs networks which enable local business, community and public stakeholders to better access skills and digital innovations to meet local needs and create local to regional and international partnerships to create or access products that meet local needs. The Nièvre Short Supply chains 4.0 project will use the county's network of digital, social and work hubs to support and manage the future Nièvre Short Supply Chains 4.0 platform.</p>
<p>Digital Nomads Madeira Islands was developed by the Regional Government of Madeira, Startup Madeira and Gonçalo Hall (digital nomad hub), it aims to help digital nomads choose Madeira Islands as their destination to work and live in. Our goal has been to prepare the ground for, promote and create a unique community of digital nomads in Madeira Islands, whilst at the same time boosting the local social & economical impact of this new and important group.</p>	



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4.3 Action/service description

Description of the action or service planned, including at least:

Main objectives	Value brought by this action into the region	Players involved and role in the implementation and collaboration between them (explanation of their involvement in service design)
Nièvre Circuits Courts/Short Supply Chain 4.0:	<ul style="list-style-type: none"> - Ensure interoperability of short supply chain sales platforms - To develop and improve digital solutions deployed to mutualise logistics within (food) short supply chain networks - development of software adapted to the sales via short supply chains - Foster cooperation between digital hubs and sales outlets in short supply chains 	<p>Project leader: Syndicat Mixte Ouvert Nièvre numérique (SMO Nn),</p> <p>Main project partners: University of Burgundy Franche-Comté (u.B); County Council of Nièvre (CD 58); DAVI (PME 4.0); ASEM LES ACTEURS SOLIDAIRES EN MARCHE Nevers NGO working on Food Access: All are members of a Technical or Steering Committee for the project</p>

Additional information can be included in an annex (i.e. specifications resulting from the service design process, etc.)

4.4 Timeframe and Funding

Include here the timeframe for the project funding application and set-up/implementation Process. Note: this chart will be key for the reporting procedure on the indicators given in the Application Form (Number of Projects and Investments relating to your PI and other Policy Instruments)

Project Calendar:

March – May 2022: - The technical committee of Nièvre Short Supply Chains 4.0 with the support of Open Food France undertook a consultation and survey with 15 key Nièvre Stakeholders in order to



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develop a vision the future local food system in 2030 - with a particular interest in the uses and applications of digital tools in short food supply chains.

May 2022: Publication of report/Analysis (week May 16-20)

June 03 2022 : Presentation and discussion of report with key county stakeholder (Signatories of Territorial Development Pact for the Nièvre), Social Food enterprises; Chambre of Agriculture, BioBourgogne (Organic Farmers Organisation); logistics operators, county local food businesses. Note: This will include a discussion on the submission of a funding application under the auspices of the Territorial Development Pact for the Nièvre, March 2022 Ammendment.

Week June 30 2022: Multi-stakeholder workshop to discuss and finalise 'Nièvre Short Supply Chains 4.0' Roadmap

At the earliest July 2022, at the latest December 2022: Funding submission under the auspices of the Territorial Development Pact for the Nièvre, March 2022 Ammendment

Note: The dates and amount requested for funding will be reported in PR6

<i>Project/Action Investment Line/Funding Source + Amount (please state each source of funding)</i>	<i>Submitted For Funding</i>	<i>Funding Decision</i>	<i>Project Start Date</i>	<i>Other key milestones</i>



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4.5 Workplan

See section 4.4 Workplan

4.6 Budget breakdown for the service/project

Detailed budget associated to the service. It can be presented using different costs categories. You can also use the budget headings used in your applications for funding. Below is an example

Category of funding	Expenditure Amount
Salaries	
Overheads (i.e. calculated at x % of staff costs)	
Travel & Subsistence	
External expertise	
Building/renovation / refurbishment	
Equipment	
TOTAL	€50-150,000

4.7 Viability and sustainability

Section to outline, for example:

- how the services will be delivered and maintained in the in the medium term, i.e. next 3 to 5 years (following the end of Phase 2.
- You could include a business plan that might include cash flows and financial projections

4.8 Impact expected

The impact within the lifetime of Phase Two will be

A) the production of a delivery plan for the Nièvre Short Supply Chains 4.0 Platform (package of digital services)

B. Benchmarking the range of products and services in the region (and existing systems)

C. Creation of a 'Products and Services' Data Store (to be extended in scope and geographical coverage according to identified needs)

D. *Creation of translators and connectors to provide raw data from producers and service providers*

This information will be included in your tailored regional Digital Innovation Improvement Plan resulting from your Digital Maturity Assessment

4.9 Monitoring activities in Phase 2

A. *Refer to Section 4.5 (in Phase 2 reports you will need to report on the predicted timeframe for the project funding application and set-up/implementation Process*

1. *Production and approval of Nièvre Short Supply Chains 4.0 Roadmap (September - October 2022) by*

- a. *Nièvre numérique board*
- b. *Nièvre County Council*
- c. *Other signatories to Territorial Development Pact for the Nièvre, March 2022 amendment.*

2. *Presentation of funding application under Territorial Development Pact for the Nièvre, March 2022 amendment (Autumn 2022)*

3. *Presentation of funding applications (if required) under Burgundy Franche Comté ERDF OP or EARDF (2023)*

Approval of Action Plan: Please use the model below on headed paper of your organisation

Nièvre numérique agrees to implement the Action Plan for the ... as detailed above. I confirm that I have the required authorisation of to do so and that the required authorisation process has been duly carried out.

On behalf of:

Signed: _____

Name: _____

Position in Organisation: _____

Date: _____

Action plan

Note: Regarding Endorsements for the Policy Instrument Managing Authority or other relevant body directly implicated in the delivery of the Action Plan

Example: On behalf of.....I would like to confirm our support for theAction Plan developed through the CARPE DIGEM project.

We agree, where appropriate, to promote and give assistance to the delivery and implementation of the projects and other activities as detailed in the...Action Plan.

I confirm that I have the required authorisation of to do so and that the required authorisation process of has been duly carried out.

On behalf of: Nièvre numérique/Digital Nièvre

Signature
Pour le Président du Syndicat mixte
et par délégation
Le Directeur

Jean-Dimas MALOT 

Name: Jean-Dimas Malot

Position in Organisation: Director

Date: 29 07 2022

