

### TREASURE, a Horizon 2020 multi-actor project on traditional resources for agricultural diversity and the food chain ... local pig breeds and their value chains)

Marjeta Čandek-Potokar KIS (Agricultural Institute of Slovenia)





#### Main data on the project call SFS-07a-2014 "Traditional resources for agricultural diversity and the food chain" 11/12/2013





Start of the action: 01/04/2015 Duration: 48 months Budget: 3.4 mio EUR Coordinator: Marjeta Čandek-Potokar, **KIS-Agricultural Institute of Slovenia** 25 partners from 9 countries Linked TP: breeders' associations



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### A brief introduction to project How did it all start for us?

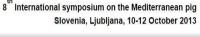
- The seed of TREASURE is in the network "Symposium on Mediterranean Pig"
- Last organised in Slovenia in Oct/2013
- Participants discussed the forthcoming H2020 call SES-7a-2014 "Traditional resources for agricultural diversity and the food chain"
- call SFS-07a-2014 was published on 11/12/2013
- The call was tailor-made for our network. Will we seize the opportunity?

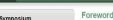
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Dear colleagues you are kindly invited to participate at 8th Symposium on the Mediterraneal







Foreword

Location

Programme

Registration

Accommodatio

Fravel info

Important date

Scientific Committee

Organising Committee

Call for papers & guidelines



The symposium of Mediterranean pig is an event that is organized every three years and represents a network of researchers working in the field of pig breeding in the regions/countries surrounding the Additerranean. The ambition of the network, from its creation, is to represent an alternative to the modern intensive systems of pig production. The special emphasis has thus been given to less tensive (low input) systems of pig breeding and/or to the sutochthonous and traditional breeds as the source for traditional and high quality products. Dry-cured ham, for many countries, is

Guidelines for presentations The link between local breed, geographical area and the product is the basis for the success of many commercial

the most important product, but there are other pork products, such as shoulder, pancetta, bacon, sausages, also popular among consumers

Contact Slovenian autochtonous Krškopolje pig (PDF) Slovenian food products with EU protection (PDF)

strategies in those Mediterranean countries which have decided to adopt the policies for the recovery of their local pig breeds. The examples of good practices can be seen in Spain or Portugal, where the traditional local pigs (Iberico in Spain, Alentejano in Portugal), kept in special agro-silvo-pastoral ecosystems ("dehesa" in Spain "montado" in Portugal), not only give meat products of special guality, but help to preserve the landscape and agricultural activity. Most of the breeds native to the Mediterranean come from small populations and are reared in geographical areas where the availability of patural resources is not always assured. Moreover, these breeds require collective management to avoid inbreeding and to assure breed preservation. This is one of the critical points for the future because most of the local breeds are presently not managed in a secure way. Development of the sector of high quality products is a way to ensure the preservation of traditional breeds. Successful examples were possible due to a fruitful conneration between nublic institutions, producers and scientists and thanks to this synergy products have become popular. Good examples of such synergy can also be found in Italy (e.g. Cinta Senese and Nero Siciliano) or France (e.o. Corsican Nustrale, Porc Basque, Gascon) or Portugal (Bisaro). In other countries like Croatia and Slovenia the preservation programmes for local breeds have been

potential of local or traditional breeds or rearing systems in pig production is represents a challenge and opportunity of pig sector in the future.

Until now, the meetings of the researchers interested in the aspects of Mediterranean area have been held since 1987 under the form of Internation Pig in Ajaccio (France, 1987), Badajoz (Spain, 1992), Benevento (Italy, (France, 2004), Capo d'Orlando (Italy, 2007) and Cordoba (Spain, 2010). On has been enriched by the participation of new countries surrounding the Med Slovenia agreed to host the 8 Symposium, to be held 10-12 October 2013 in





### Analyse the call - special care to "key words" and "expected impacts"





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## Initial dilemmas & tough nuts

- Focus on species "sus scrofa"? can we succeed with key word ("pig") which has a negative connotation?
- Do we have all the competences to answer the scope and challenges of the call?
- How to create/expand the consortium? Who will be the motor?
- We started as Mediterranean network => "research network", already (too) big expand yes, but how ?
- How to find & involve non-academia partners ? Do we understand multi-actor approach?
- How to split/assign roles between science and practice; find a "place" for each partner esp. non-science partners
- Local breeds (often endangered) = very small populations difficult to get enough material for genetic characterisation; difficult to organise experiments (with farmers) i.e. have scientifically sound approaches.
- Key word "untapped genetic resources" finding a place for the pioneers with developed chains (e.g. "iberico") => role model, different type of research activities



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# Initial dilemmas

Tough nuts

# What did we propose?

How were project's objectives targeted to needs, problems, opportunities

CONCEPT

TREASURE is built on the inherent value

encompassed in local pig breeds, their

production systems and product

qualities. The idea is a new paradigm of pig production that meets societal

demands regarding environment,

genetic diversity, ethical and social

aspects and economic value.

of end-users, and the complementarity with existing research?

#### RATIONALE

Public opinion is not favourable to intensive pig production which is confronted with environmental and animal welfare issues.

Local pig breeds and their respective production systems meet high criteria and expectations of modern society in regard to the environment, animal welfare and food quality.

#### **KEY CHALLENGE**

The key challenge is a development of sustainable pork chains in geo-agro-climatically different regions of Europe by using the biodiversity resources encompassed in European local pig breeds.



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# What did we propose?



How were project's objectives targeted to needs, problems, opportunities

of end-users, and the complementarity with existing research?

Pig genetic resources – breeds are mainly "untapped"

**Local breeds** in Europe (majority) are conserved thanks to the support of public money (**gene banks**).

In order to be **sustainable** it is important to make them selfsufficient, **economically viable** 

research needed because there is a big void of scientifically proven evidence of their qualities (e.g. characterisation) and of their needs (e.g. nutrition)

interaction of different actors needed to build up "pork chains"

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Research and development activities were proposed to improve **knowledge**, **skills** and **competences** necessary to develop existing and create new **sustainable pork chains** based on European **local pig genetic resources** (local pig breeds).

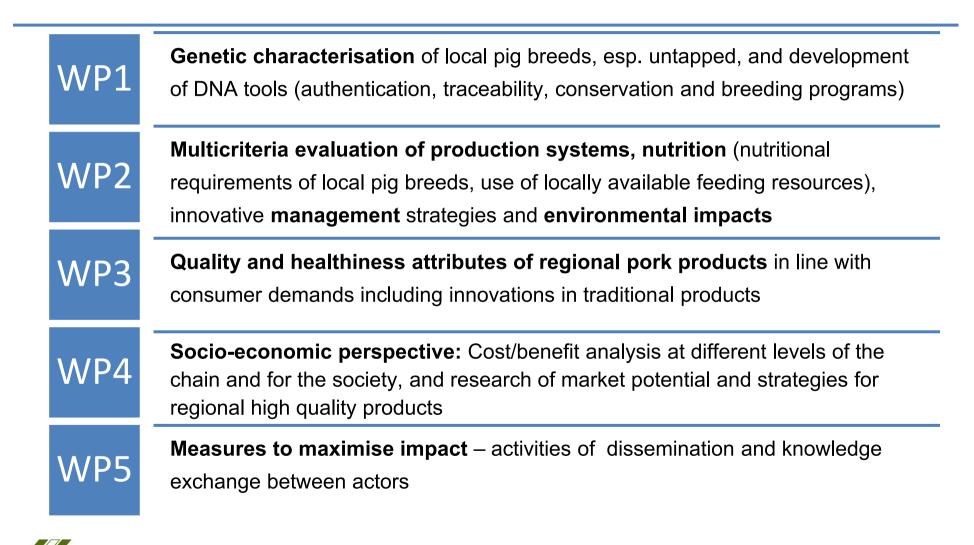
- Scientific challenges
- Exchange of knowledge/experience btw partners
- Joint ventures ("trade mark")

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# Aim, main objectives



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Choice of key actors with complementary knowledge (scientific and practical), sufficient knowledge exchange activities and a clear role for the different actors

Scientific questions original/innovative: key centres of knowledge in respective research areas, countries

Farmers' associations involved in collection of genetic material, organisation of experiments, data collection, surveys

Diverse knowledge transfer activities involving farmers' associations, competence centres and advisory services

Focus on strengthening networks (science/practice, countries/regions)

Joint venture (umbrella trade mark ... co-creation and co-ownership)



25 partners &



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Each partner (academia or non-academia) with a clear and visible role in the project i.e. various actors (e.g. farmers) involved from work planning to dissemination, demonstration



27-28 January 2017



Inter-dependency between partners and tasks (shared efforts) to reach project goals

Examples:

WP2 Management & performance of local pig breeds in their production systems

WP1.5 DNA markers • Authentication • Traceability

- WP2.1 task comprises visits of farms to collect data (surveys) for multicriteria evaluation of production systems (for WP1, WP2, WP4) + genetic material (for WP1)
- WP2.3, WP2.4, WP2.5 comprise experiments supplying
  WP3 (with products for quality evaluation), WP1 (gene expression studies, pilot study on intestinal microbiota) ...
- WP1.5 results important for WP3.4 that concern development of breeding programmes for local pig breeds

Important role of farmers associations

Important role of farmers associations



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# Diverse knowledge transfer and networking activities involving various actors

- Many dissemination/demonstration activities with/by farmers' associations
- Training school how to make quality meat products (e.g. farmers who make their own products and sell on-farm)
- Study visits (farmers)
- Kuleniada local competition of salami type product quality



Event in Firenze organised by partner and its linked TP - Cinta Senese breed association with participation of Spanish partner



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Events

published on

web page

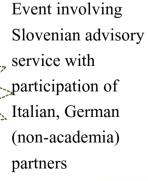


- Sharing experience, views => strengthen competences
- Strengthen networks within/btw regions
- understanding "difference in culture" (science # practice)

Reviewers:

Very valuable initiatives for transfer of knowledge ...

The consortium needs to give more attention to its plans for scientific publication











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# Project achievements so far

- WP1 In RP1, the collection of genetic material accomplished the real genetic analysis/breed characterisation starts now
- WP2 data collections (surveys with farmers) and almost all experiments accomplished (majority in field conditions not on experimental farms)
- WP3 common toolbox for quality evaluation established, consumer sensory tests almost finished, database on carcass and meat quality for breeders associations being developed
- WP4 data collection for cost/benefit analyses (farm, product, society), surveys with consumers to evaluate their preferences for traditional and innovative products from local pig breeds
- WP5 continuing process of communication (project visibility), dissemination, knowledge exchange, TM development – survey of options, brainstorming with partners



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# Remaining work and dissemination phase



- WP1 genetic analysis with High density chip for breed, gene expression studies, microbiome analyses
- WP2 –analyses of data collected with surveys (analytical review of productive traits; life-cycle analysis) and results from experiments (to evaluate innovations in management and local feeding resources), → dissemination
- WP3 analyses of collected results, database on carcass and meat quality for breeders associations, dissemination
- WP4 cost/benefit analyses (farm, product, society), consumer preferences for products from local pig breeds
- **WP5** continuing process of dissemination, knowledge exchange events, TM development (rules on TM, registration of TM, roadmap for TM)



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Prospects, networks and practicaloriented material sustainability



- In many cases we create "new" data for breeds, but often it will be difficult to publish them in "top" scientific journals
- Many activities for project promotion at regional events
- 9th symp medit pigs the event was marked by first Treasure results; 2 events are forseen this year in Central-East part
- Big expectations for umbrella trademark
- Networking best when people are working together; networks of breeders' associations + their advisors
- Consortium makes efforts to reach farmers



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#### http://www.treasure.kis.si



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### THANK YOU FOR YOUR ATTENTION





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