

SharCo

Containment of Sharka virus in view of EU-expansion

Small Collaborative project of the 7th Framework Programme

Theme 2

Food, Agriculture, Biotechnologies

DA.2.2

Programme letters of the different training
workshops

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1. General Presentation

1.1. Context

The activities within the WPA2 workpackage, “Dissemination and transfer”, are aimed at updating officers of the Plant Protection Services, agricultural advisers, breeders, nursery gardeners and fruit producers with know-how, tools and plant material restricting sharka outbreaks and minimize the impact of the disease in case of contamination. It will also support public policy-makers, regulatory bodies, extension services and other stakeholders through the dissemination of sharka-targeted early warning systems, of cultivation guidelines and recommendations for a PPV risk management elaborated in the workpackage WPA1. This dissemination and transfer of SharCo outcomes is achieved i) through the renewal, by means of the training workshops, of an efficient, inter-active communication between the SharCo beneficiaries and all potential end-users and ii) via the use of the public media and publications in both local and international, peer-reviewed journals.

1.2. Rationale

Sharka causes enormous economic and societal damages to a wide range of stakeholders ranging from breeders, plant material gardeners, to fruit producers. EU extension with new incoming Member States from Central Europe and Balkans, which are known as zones endemic for the *Plum pox virus* (PPV), is expected to considerably increase the threat caused by the disease. The recent advances in research on sharka containment, including those obtained within the SharCo project such as new, more sensitive and specific methods of PPV detection, cultivation guidelines and Decision Support System and finally new sources of genetic resistance and new cultivars of stone fruit trees and rootstocks resistant to sharka will be instrumental in containment, and eventually control of the disease. However, in order to ensure the positive impact of those research advances in the Society, the transfer of knowledge to major stakeholders like officers of the Plant Protection organizations, agricultural advisers, nurseryman and fruit growers, had to be reinforced. Indeed, it does exist workshops and conferences on sharka and other viral plant diseases, like the workshop on PPV issues specific to Eastern European countries held every two or three years, or International Conference on Virus and other Graft Transmissible Diseases of Fruit Crops. However they are focused on gathering researchers, not on training end-users. WPA.2 bridges this gap by organizing training workshops on PPV with a special attention paid to Eastern European countries.

2. Detailed description

Training Workshop in Poland

The Training Workshop in Poland was held in Skierniewice at the premises of the Research Institute of Pomology and Floriculture (Partner P7). Preliminary outcomes were presented in the former version of the deliverable DA2.2 (month 24).

The lecture topics, taking into account Polish agroclimatic, epidemiologic and economic conditions were proposed by local organizers: prof. Lech Michalczuk and dr Tadeusz Malinowski, and approved by project's coordinator, dr Veronique Decroocq. The lectures were presented in English (by invited speakers being SharCo partners) and in Polish by Polish speakers. The simultaneous translation was provided by LIDEX Congress & events, a commercial provider from Warsaw. In addition, the Power Point presentation of were translated to Polish by Prof. Lech Michalczuk and included in Workshop Programme Letters. The Workshop was executed on 18.11.2009, with the following programme:

- 09.00 Registration
- 10.00 Welcome address
Prof. Lech Michalczuk, ISK Skierniewice
- 10.15 Properties of Plum Pox Virus isolates important from the practical point of view
Dr Tadeusz Malinowski, ISK Skierniewice
- 10.45 Plum pox virus detection and strain identification
Dr Antonio Olmos, Instituto Valenciano de Investigaciones Agrarias, Spain
- 11.15 Coffee break
- 11.45 Overview of the current implementation of the European Directives for the Sharka containment and need of changes in specific regulations
Dr Donato Boscia, Consiglio Nazionale delle Ricerche-Istituto di Virologia Vegetale, Italy
- 12.15 Sharka epidemiology and legal regulations concerning its control – Polish perspective
Iwona Sahajdak, Main Inspectorate for Plant Protection and Seed Inspection, Poland
- 12.45 Strategies and measures for sharka containment
Prof. Mariano Cambra, Instituto Valenciano de Investigaciones Agrarias, Spain
- 13.15 Coffee break
- 13.45 *Plum, apricot and peach cultivars varieties resistant to sharka – the real prospective or a mirage?*
Dr Maria Luisa Badenes, Instituto Valenciano de Investigaciones Agrarias, Spain (presented by Dr Veronique Decroocq)
- 14.15 New directions in sharka resistance breeding – expectations and potential problems (genetic engineering, turning local hypersensitivity into field immunity, is tolerance a long term solution ?
Dr Tadeusz Malinowski, ISK Skierniewice
- 14.45 Panel discussion
Moderator: Prof. Lech Michalczuk, ISK Skierniewice
- 15.30 Conclusions and closure of the workshop
Prof. Lech Michalczuk, ISK Skierniewice

The thematic lectures were followed by a brief speech by Mr. Piotr Kaczor, Chairman of Polish Nurseries Association, who presented the point of view of Polish nursery

owners and managers concerning legal regulations related to sharka control. They generally agree that confinement of PPV spread is very badly needed, but their main concern is poorly defined “immediate vicinity” and interpretation of the “site of production”. Many nurseries have several production sites, frequently located at large distances from each other, but in the law it is a nursery as an enterprise considered a “production site”. Therefore, detection of PPV at any actual production site causes that the whole Prunus material produced at all production sites of a nursery loses passport. They consider this regulation as unjust.

In the general discussion which followed the main subject raised were again definition of “immediate vicinity”, which shall be defined more precisely, and the “site of production” which shall be defined as actual site at which a plant material is produced instead of an enterprise, which may have many production sites. It has been also proposed that the regulations shall take into account different levels of sharka control. In countries and regions where sharka is endemic some regulations shall be more relaxed than in regions where sharka occurs sporadically at restricted areas. It was also raised that visual inspection is not satisfactory to declare plant material as sharka-free and laboratory methods shall be applied at all controlled sites.

The Workshop was officially closed by Prof. Lech Michalczyk, who summarized discussion and invited all participants, but especially officers of Plant Protection and Seed Inspection Inspectorate, to further cooperate with SharCo partners in order to successfully implement project’s results.

The Workshop was attended by 111 participants, in those 64 officers of Inspectorate of Plant Protection and Seed Inspection, 32 researchers, 12 fruit growers/nursery owners, 2 journalists from professional journals and one agricultural adviser from private consulting enterprise. In addition, 11 SharCo partners participated in the Workshop as observers. The full list of participants is presented in Annex.

Training workshops in Turkey

The first information about the workshop was posted on the web page of the Mustafa Kemal University (Partner P8) at the beginning of September 2009. Since there were many potential participants from different parts of the country, it has been decided to organize two workshops: one in Antakya and second in Malatya located in Central Turkey, approximately 400 km East of Antakya, within the main region of production of dried apricots. This way, we secured the participation of a maximum of Apricot fruit producers, who are the most representatives for stone fruit production in Turkey (1st producer worldwide of Apricots).

Training Workshop in Antakya

The first Training Workshop in Turkey was held in Antakya-Hatay on December 17th, 2009 at the premises of the Mustafa Kemal University. The lecture topics, taking into account Turkish agroclimatic, epidemiologic and economic conditions were proposed by local organizers: Prof. Dr. Kadriye Caglayan, Assoc. Prof. Cigdem Ulubas Serce, Mona Gazel, Feza Can, Kamuran Kaya and approved by the workpackage leader, Prof. Lech Michalczyk. The lectures were given in Turkish except for the presentation of Prof. Michalczyk, which was in English and translated in Turkish. The detailed programme is presented below.

- 10.00 Welcome addresses
*Prof. Kadriye Çağlayan, Mustafa Kemal University,
Prof. Şerefettin Canda, Rector of M.K.Ü*
- 10.15 Goals of “Sharka Containment” European Project
Prof. Lech Michalczuk, ISK Skierniewice, Poland
- 10.30 Plum pox virus detection and strain identification
Assoc. Prof. Mona Gazel, Mustafa Kemal University
- 11.00 Strategies and measures for sharka containment
Prof. Kadriye Çağlayan, M.K.Ü.
- 11.30 *Coffee break*
- 12.00 Properties of Plum pox virus isolates important from the practical point of view
Assoc. Prof. Çiğdem Ulubaş Serçe, Mustafa Kemal University
- 12.30 Sharka epidemiology and legal regulations concerning its control – Turkish perspective.
Dr Birol Akbaş, Plant Protection Research Institute, Ankara
- 13.00 Lunch break
- 14.00 Overview of the current implementation of the European Directives for the Sharka containment and need of changes in specific regulations
Prof. Dr. Kadriye Çağlayan, Mustafa Kemal University
- 14.30 Resistance studies of sharka disease by using our local cultivars
Assoc. Prof. Bayram Murat Asma, İnönü University, Malatya
- 15.00 New directions in sharka resistance breeding – expectations and potential problems (genetic engineering, turning local hypersensitivity field immunity, is tolerance a long term solution?)
Assoc. Prof. Dr. Çiğdem U. Serçe, Mustafa Kemal University
- 15.30 Panel discussion and conclusion

The presentations displayed in the slide show were included in the Workshop Programme Letters.

The thematic lectures were followed by a general discussion. The following questions were opened to discussion:

- How can you explain that sharka is not spreading widely in Turkey as it is in neighbouring countries in the Balkans?
- What is the role of different isolates on sharka epidemiology?
- What is the importance of woody and herbaceous natural hosts in sharka spreading in Turkey?
- What is the best sampling time in Turkey and what kind of samples is giving the most accurate results when testing by ELISA?
- What can be done for the lethal infections during importation procedure?
- Can strict and efficient quarantine measures completely solve sharka problem in Turkey? How can we improve quarantine conditions in Turkey?
- Recent studies have been carried out on the potential application of the EU-like 2000/29 Directive and plant passport in Turkey. How can they be helpful for containing or restricting sharka dissemination?

The workshop was officially closed by Prof. Dr. Caglayan, who summarized the discussion and invited all participants, but especially officers of Plant Protection and Seed Inspection Inspectorate, to further cooperate with SharCo partners in order to successfully implement project's results.

The workshop was attended by 73 participants, comprising 33 officers of the Inspectorate of Plant Protection, 6 quarantine officers, 6 researchers from governmental institutes and 17 researchers from Turkish Universities, 9 fruit growers/nursery owners and 2 journalists from professional journals. In addition, the workpackage leader, Prof. Lech Michalczuk participated to the Workshop as observer. The full list of participants is presented in Annex.

Training Workshop in Malatya

The Training Workshop in Malatya was held on February 26th, 2010 at the premises of İnönü University. The site was selected because Malatya region is the biggest centre of apricot production in Turkey. Since it is still free of sharka, the local fruit growers, as well as officers of Plant Protection Service and researchers were very interested in information about sharka, the challenge it poses to fruit production, especially of apricots, and the methods of control. The programme of the workshop was as follows:

- | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.00 | Registration |
| 13.30 | Welcome addresses
<i>Assoc. Prof. Bayram Murat Asma, İnönü University, Malatya</i>
<i>Prof. Kadriye Çağlayan, Mustafa Kemal University</i> |
| 14.00 | Goals of "Sharka Containment- European Project & Strategies and measures for sharka containment
<i>Prof. Kadriye Çağlayan, Mustafa Kemal University</i> |
| 14.30 | Plum pox virus detection and strain identification
<i>Assoc. Prof. Mona Gazel, Mustafa Kemal University</i> |
| 15.00 | Properties of Plum pox virus isolates important from the practical point of view
<i>Assoc. Prof. Çiğdem Ulubaş Serçe, Mustafa Kemal University</i> |
| 15.30 | Identification of molecular markers linked to resistance to PPV and marker-assisted selection
<i>Assoc. Prof. Sedat Serçe, Mustafa Kemal University</i> |
| 16.00 | Resistance studies of sharka disease by using our local cultivars
<i>Assoc. Prof. Bayram Murat Asma, İnönü University, Malatya</i> |
| 16.30 | Panel discussion and conclusion |

The Workshop was attended by 55 participants, of which there were 15 officers of Inspectorate of Plant Protection and agricultural advisers, 4 researchers from governmental institutes and 10 researchers from the universities, 20 fruit growers/nurserymen and 4 journalists from professional journals. The full list of participants is provided in the Annex.

Training workshop in Czech Republic

Training workshop „Šarka peckovin – současný stav problematiky v České republice a Evropě” (Sharka of stone fruits - the present state of problem in the Czech Republic and in Europe) was organized by the Crop Research Institute, Prague (Partner P9), in cooperation with Czech Phytopathological Society. Preparations started in September 2009. The Organizing Committee was composed of the following persons:

Prof. Jaroslav Polák, Crop Research Institute, Prague – chairman
Dr Petr Komínek, Crop Research Institute, Prague - vice chairman
Dr Jiban Kumar, Crop Research Institute, Prague
Prof. Boris Krška Faculty of Horticulture Lednice, Mendel’s University, Brno
Dr Miroslav Glasa, Institute of Virology SAS, Bratislava, Slovakia
Eng. Michal Hnízdil, State Phytosanitary Administration, Prague,
Eng. Michal Kůrka, Central Inst for Supervising and Testing in Agriculture, Brno
Eng. Martin Ludvík, Union of fruit producers of the Czech Republic, Holovously
Miloslava Ducháčová, Crop Research Institute, Prague
Jitka Pívalová, Crop Research Institute, Prague
Milan Jokeš, Crop Research Institute, Prague
Zdena Vlašicová, Faculty of Horticulture Lednice, Mendel’s University, Brno

The preliminary programme was prepared in January 2010 and was acknowledged by officials and representatives of the Plant Protection Administration, Central Control and Testing Agricultural Institute (ÚKZÚZ), the Union of Fruit Growers as well as other potential stakeholders interrogated during the meeting of Czech nurserymen and during the Fruit growing days that took place in Hradec Králové in January 2010. The final programme was approved by the Organizing Committee in February 2010 and the invitations were sent to the potential participants like officers of Plant Protection Administration and Central Control, Czech Fruit Growing Union, individual fruit producers and nurseryman, researchers and journalists of professional press.

The 2-day workshop took place in Lednice, South Moravia, from 28th to 29th of June 2010 at the premises of the Faculty of Horticulture of the Mendel’s University. This venue for the workshop was selected because sharka is abundant in the South Moravian region, which enabled practical trainings and demonstration in the field. The Programme of the Workshop was as follows

28.6.2010

- | | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.00 | Registration of participants |
| 10.00 | Introduction – Dean of Faculty of Horticulture, Lednice |
| 10.05 | Importance of growing of stone fruits in Czech Republic.
<i>Dipl. Ing. Martin Ludvík</i> |
| 10.20 | Sharka – history of disease in the CR and Europe, Plum pox virus, properties, transmission, spreading, epidemiology, methods of protection
<i>Prof. Jaroslav Polák</i> |
| 11.15 | Biological and genetic diversity of Plum pox virus.
<i>Dr. Miroslav Glasa</i> |
| 12.00 | Detection methods of Plum Pox Virus
<i>Dr. Petr Komínek</i> |

12.45 – 14.00	Refreshment
14.00	Breeding of stone fruits for resistance to PPV in the CR and Europe, new directions, molecular markers. <i>Prof. Boris Krška</i>
14.45	Methods of genetic engineering in protection against Sharka. <i>Dr Jiban Kumar</i>
15.30	Implementation of European directives for limitation of sharka and needs of changes from CR point of view. <i>Eng. Michal Hnízdil</i>
16.00	Refreshment
16.30	The present state of protection and production of sharka free plant material of stone fruits in the CR. <i>Eng. Michal Kurka, Petr Boleloucký</i>
18.00 – 20.00	Cultural event – folk music ensemble

29.6.2010

9.00	ELISA and RT-PCR detection of PPV –practical instructions in laboratory <i>Prof. Boris Krška</i>
10.00	PPV symptoms in plum, apricot, peach – practical demonstrations in orchards <i>Prof. Jaroslav Polák</i>
12.00	Conclusions and closure of the workshop.

The lectures were followed by general discussions during which lecturers answered questions from participants. On the second day, practical training in laboratories of the Faculty of Horticulture in detection of PPV by ELISA and RT-PCR took place, which was followed by a field trip to selected orchards in which sharka symptoms on plums, myrobalans, apricots and peaches could be observed.

The workshop was attended by 121 participants, including inspectors of the Plant Protection Administration, employees of Central Control and Testing Institute, fruit growers, nurserymen, producers of plum brandy, members of Czech Gardening Union, Czech Phytopathological Society and researchers from several universities and research institutes. 110 participants came from Czech Republic and 11 from Slovak Republic. The full list of participants is provided in the annex.

The Proceedings in Czech containing Power Point presentations of lectures with 29 colour pictures and 12 tables were printed prior to the workshop and provided to the participants during registration. The remaining, edited booklets were distributed to nurserymen, fruit growers and gardeners by the end of 2010 and in January 2011.

Training Workshop in Bulgaria

The Training workshop “Вирусната болест Шарка по костилковите овощни видове (*Plum Pox Virus*) – състояние, роблеми, начини за ограничаване и контрол в страните от Европейския съюз” (Virus disease Sharka (*Plum Pox Virus*) – present situation, problems and control in the countries of European Union) in

Bulgaria was organized jointly by the Fruit Growing Institute in Plovdiv (Partner P14) and AgroBioInstitute from Sofia (Partner P2). The persons responsible (core group) were: Prof. Valentina Bozhkova and Prof. Snezhana Milusheva from FGI and Prof. Ivanka Kamenova from ABI. The Programme, prepared by the organising committee, was acknowledged by the SharCo Coordinator, Dr Veronique Decroocq, and the WPA2 workpackage leader, Prof. Lech Michalczyk as well as by the Director of the Bulgarian National Plant Protection Service. The programme was then posted in early June 2010 on the FGI website. (www.fruitgrowinginstitute.com). The workshop was promoted during the Open Cherry Day organized in June by the Fruit Growing Institute and during the Peach Day organized in July by the Organization of Peach Producers in Gavrailovo, Sliven district. Additionally, 80 e-mails were sent to potential participants, including fruit growers and nursery men, researchers and journalists from professional press and TV. High-level stakeholders were additionally invited by phone. About 70 positive feedbacks were obtained. At the beginning of August, the registered participants received the book of lectures by post or e-mail.

The Workshop took place on September 10th, 2010 at the premises of the Fruit Growing Institute in Plovdiv. The Programme was as follows:

9.45	Registration
10.00	Opening of the workshop and introducing the SharCo project . <i>Prof. Valentina Bozhkova, FGI, Plovdiv</i>
10.20	Plum Pox Virus detection and strain differentiation. Properties of different strains and their importance in practical point of view. <i>Prof. Ivanka Kamenova, AgroBioInstitute, Sofia</i>
10.45	Strategies and measures to reducing of Sharka. <i>Prof. Snezhana Milusheva, FGI, Plovdiv</i>
11.00	Breeding of new stone cultivars and rootstocks resistant to Sharka – possible or not? Using of local resources as source of resistance. <i>Prof. Valentina Bozhkova, FGI, Plovdiv</i>
11:15 – 11:30	Coffee break
11.30	Sharka in Bulgaria- current situation and control. <i>Mariana Laginova, National Plant Protection Service</i>
11.45	Presentation of draft of Cultivation Guidelines for the establishment of MP, nursery and orchard in endemic PPV regions <i>Prof. Valentina Bozhkova, FGI, Plovdiv</i>
12:00	Discussion
13.00 – 13:30	Coffee break
13.30	Visit to the nursery established within SharCo project.
14.00	Closure of the workshop

The discussion following lectures was very active. The main concern of the producers was the cost of plant protection and sharka control. They are aware of the damages due to sharka disease on stone fruit production, but are afraid that the control methods might be even more expensive to apply. In their opinion some structural changes are needed because in current situation in Bulgaria many landowners have difficulties to secure the nursery plots with appropriate buffer zones. The fees for phytosanitary documents are too high, which increases the tree cost. Such situation opens the door for importation of cheap planting material from neighbouring countries with unclear phytosanitary status and no phytosanitary passport. The nurserymen were very interested in implementing the use of new, hypersensitive rootstocks. The main conclusion that emerged in the discussion was the need for building a national policy on controlling the disease. In this initiative shall participate researchers, fruit producers from the Association of Producers of Plant Propagation Material, and officers of Ministry of Agriculture and Food, National Plant Protection Service and Executive Seed Control Agency.

The workshop was attended by 55 participants, mainly officers of the National Plant Protection Service, researchers, fruit producers and nurserymen, with the participation of the SharCo coordinator, Dr V. Decroocq. The full list is presented in the Annex.

Training Workshop in Romania

The training workshop in Romania was organized by the Faculty of Horticulture at the University of Agricultural Sciences and Veterinary Medicine, Bucharest (Partner 3). The invitations, containing the programme and brief information about the SharCo project, were sent to potential participants. The information about the workshop was also posted on the University's web site (www.usamv.ro/facultatea) and was also advertised during agricultural fairs and scientific meetings like: Seiunea Stiintifica, Zilele Horticulturii, Salonul Agriculturii, Targul Traditional de Produse Agricole etc. Additionally, the information was published in professional journals: Sanatatea plantelor, Rodul pamantului, Lumea satului si Agro-Busisess, Revista ABC Agricol, Piata agricola and Fermierul

The Workshop took place in October 21st 2010 at Bucharest. The programme was as follows:

8.30	Registration
9.00	Opening the workshop <i>Dr Hoza Dorel, Dean USAMV Bucharest</i>
9.15	SharCo consortium presentation <i>Dr Ion Ligia, USAMV Bucharest</i>
9.45	The Romanian situation concerning nurseries, producers and associations <i>Dr Petelica Adrian, Romanian Academy of Sciences</i>
10.10	The plant material certification, steps and phytosanitary plant passport. <i>Dr Stanica Florin, Vice Rector of international relations. USAMV Bucharest</i>

- 10.30 Quarantine rules and legislation applicable in Romania, Directive 29/2000.
Dr Diaconu Marinela, Ministry of Agriculture - Romanian Phytosanitary Agency
- 11.00 – 11.30 Coffee break
- 11.30 Epidemiology, detection methods of material infected with PPV eradication.
Dr Zagrai Luminita, SCDP Bistrita
- 12.00 Host plant interaction (stone fruits trees) / plum pox virus, marketplace impact
Dr Isac Maria - Association of Romanian Fruit Growers, SCDP Valcea
- 12.30 Decision tree to limit the spread of PPV. Guideline presentation.
Dr Zagrai Ioan, SCDP Bistrita
- 13.00 Coffee break
- 13.45 Practical demonstrations - rapid methods of detection of PPV in the field. Kit presentation.
Dr Simona Boicu, Manager, Food & Feed Dep., Diamedix Impex SA
- 14.30 Practical demonstrations - PPV diagnostic kits by molecular methods.
Dr Aura Pavel, Manager, SC Omnivet Impex SRL
- 15.30 Visits at nurseries and commercial orchards and the technical tour of experimental field of Faculty of Horticulture, USAMV Bucharest
- 17.30 Conclusions and closure of the workshop
Dr Ion Ligia, USAMV Bucharest

As an accompanying event, exposition of seasonal fruits was co-organized by the Faculty of Horticulture and Fruit Producers Association AGROSTAR (represented by President Istrate Florin)

The participants actively took part in the discussion following all the lectures. The farmers argued that Romanian nurserymen as well as Plant Protection Services are not prepared to implement cultivation guidelines in accordance with European legislation and EPPO standards on the production, testing, certification and marketing of plant material. They were also concerned about high costs of sharka containment, which if fully implemented would severely decrease competitiveness of the Romanian nurseries. They were also arguing that there should be more protection of the Romanian market against the importation of cheap and uncertified plant material.

The workshop was attended by 104 participants. The full list is presented in the Annex.

3. Original specifications and actual achievements

The main achievement of the six Training Workshops organized in Poland, Turkey, Czech Republic, Bulgaria and Romania, was the attendance and active participation of almost 500 officers of Plant Protection Authorities, nurserymen, and fruit producers to training workshops dealing with sharka disease, training in modern methods of PPV detection, strategies for sharka containment and legal regulations concerning sharka control. In addition, the participants were updated on the current breeding programmes for the selection of PPV resistant *Prunus* cultivated material.

This deliverable has been fully completed in month 36, one year in advance. The last version of deliverable DA2.2 planned for month 48 is non-relevant since all planned training workshops took place already, except if one last, non-planned workshop is organised in the meantime.

4. Use and dissemination of the results

The Task itself was meant to disseminate SharCo results, knowledge and know-how developed and obtained in other workpackages. The most important achievement of the training workshops was to keep informed the main stakeholders, like fruit and nursery producers, officers of respective National Plant Protection Agencies, about the challenges that sharka poses to the stone fruit production in Europe, and the tools and strategies to confine and control this most detrimental plant disease.

Apart from that, the information in the newspapers, research and professional journals and on Partner's web-pages helped to advertise on the SharCo project and the outcomes expected by the end of it.

The article about the Workshop in Skierniewice (Poland) and the SharCo project was published in the 01/2010 issue of the professional journal "Szkółkarstwo" (Nursery)

The detailed description about the workshop happening in Antakya was printed in the newspaper "Yorum" on 19.12.2009 and the article about Malatya workshop in newspaper "Sonsoz" on 26.02.2010".

Detailed report on the workshop happening in Plovdiv (Bulgaria) was printed in the national newspaper "Agro" N36 (17.09.2010). Two articles on "Breeding of new stone cultivars and rootstocks resistant to Sharka" and „Strategies and measures to reduce Sharka" appeared in the journal "Zemedelie plus". A report on the Romanian Workshop and the topics addressed was also printed in the journal "Plant Health" 150/11: 19.

Annex - List of participants of SharCo training workshops.

List of participants of the Training Workshop in Skierniewice, Poland

No.	Name	Affiliation
Participants		
1.	Katarzyna Adamiec	Regional Inspectorate of Plant Protection and Seed Inspection, Łódź
2.	Ewelina Andrzejczyk	Regional Inspectorate of Plant Protection and Seed Inspection, Warsaw
3.	Justyna Bartosiewicz	Regional Inspectorate of Plant Protection and Seed Inspection, Warsaw
4.	Małgorzata Bąkowska	Regional Inspectorate of Plant Protection and Seed Inspection, Warsaw
5.	Hanna Berniak	Institute of Pomology, Skierniewice
6.	Lucyna Bieńko	Regional Inspectorate of Plant Protection and Seed Inspection, Warsaw
7.	Ireneusz Bloch	Regional Inspectorate of Plant Protection and Seed Inspection, Kielce
8.	Brodzińska Mariola	Regional Inspectorate of Plant Protection and Seed Inspection, Kielce
9.	Jolanta Bryl	Regional Inspectorate of Plant Protection and Seed Inspection, Łódź
10.	Elżbieta Budzikur-Ramza	Regional Inspectorate of Plant Protection and Seed Inspection, Katowice
11.	Piotr Ciasnocha	Regional Inspectorate of Plant Protection and Seed Inspection, Warsaw
12.	Czubińska Magdalena	Regional Inspectorate of Plant Protection and Seed Inspection, Poznań
13.	Alojzy Czynczyk	Institute of Pomology, Skierniewice
14.	Iwona Dąbrowska	Regional Inspectorate of Plant Protection and Seed Inspection, Warsaw
15.	Tatiana Maria Dolińska	Agricultural University, Warsaw
16.	Marcin Dudek	Agricultural University, Warsaw
17.	Jacek Durakiewicz	Main Inspectorate of Plant Protection and Seed Inspection
18.	Ewa Dusza	Regional Inspectorate of Plant Protection and Seed Inspection, Opole
19.	Hubert Frączak	Agricultural University, Warsaw
20.	Halina Głusiuk	Regional Inspectorate of Plant Protection and Seed Inspection, Gdańsk
21.	Michał Golacik	JG KONSULTING
22.	Katarzyna Golnik	Agricultural University, Warsaw
23.	Karolina Gontarczyk	Agricultural University, Warsaw
24.	Grażyna Górską	Main Inspectorate of Plant Protection and Seed Inspection
25.	Agnieszka Górską	Regional Inspectorate of Plant Protection and Seed Inspection, Katowice
26.	Piotr Grel	Journalist from "Sad Nowoczesny"
27.	Danuta Grocholska	Regional Inspectorate of Plant Protection and Seed Inspection, Poznań
28.	Grażyna Grom	Regional Inspectorate of Plant Protection and Seed Inspection, Warsaw
29.	Ilona Gryglas	Agricultural University, Warsaw
30.	Zygmunt Grzyb	Institute of Pomology, Skierniewice
31.	Ewa Hennig	Main Inspectorate of Plant Protection and Seed Inspection,
32.	Agata Iwańska-Janiak	Regional Inspectorate of Plant Protection and Seed Inspection, Łódź
33.	Emilia Jabłońska	Agricultural University, Warsaw

34.	Lucyna Jaremek-Kamieniecka	Main Inspectorate of Plant Protection and Seed Inspection,
35.	Sylwia Jurkiewicz	Regional Inspectorate of Plant Protection and Seed Inspection, Bydgoszcz
36.	Piotr Kaczor	Nursery owner, Chairman of Polish Nursery Association
37.	Marta Kalisz	Regional Inspectorate of Plant Protection and Seed Inspection, Kielce
38.	Katarzyna Kamińska	Regional Inspectorate of Plant Protection and Seed Inspection, Radom
39.	Jolanta Kiszka	Regional Inspectorate of Plant Protection and Seed Inspection, Poznań
40.	Barbara Kobiera	Regional Inspectorate of Plant Protection and Seed Inspection, Łódź
41.	Beata Komorowska	Institute of Pomology, Skierniewice
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