

#### EUROPEAN COMMISSION Research Executive Agency Marie Curie Actions – International Research Staff Exchange Scheme





# **Marie Curie Actions**

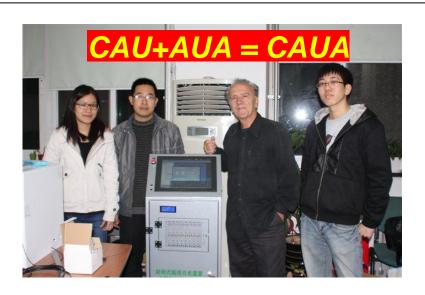
**Project No:** 612659

Project Acronym: TEAP

**Project Full Name:** A Traceability and Early warning system for supply chain of Agricultural Products: Complementarities between EU and China"

# Final Report - AUA - STAY REPORT

2016-17



#### 2016.1 Stay report

#### A) Summary of the exchange and research developed

In the framework of WP5 and WP6. Vine leaves as by product of primary production of table grapes and/or raisins, are used for wrapping stuffed vine leaves with rice mixture, known as "Dolmades" through a process of leaf-harvesting, cleaning and preservation over a full year time. Consumer may have on the plate leaves that were sprayed and used immediately or after a year preserved. China is exporting big amounts, despite the fact that vine leaves are not considered food product and they are not used in the Chinese culinary and cuisine. Though, similar product stuffed vegetables (cabbage, banana leaf) is applicable in the internal (China) consumption. Therefore, it has been selected as a primary Case to conduct a Risk Assessment and deliver a study for the particular case and have a complete example of how Protocols and International Certifications are applied and provide Recommendations for lower Safety Risk.

		e, it has been selected a case and have a comp						•
1 -		ecommendations for lo	-				erriacional ceremo	ations are applied and
в) [	Dele	gation composition	on, visited	l l	nstitutions and	date	es.	
Com	posit	ion of the delegation						
Num		Name			itution		ition	
1	•	Karakatsanis Symeo	on A	U/	4	Con	tract Researcher F	ood Processing
		(MSc AUA and MSc						
		Wageningen Univer	rsity)					
Full p	erio	d of stay				1		
Num		Name			rt Date*		Date**	
1.		Karakatsanis Symeon	20	6/	2/2016	2/7	/2016	
		ons and dates				ala ala		
Num	•	Name			Visited Institutio	n**	Start Date	End Date***
o\ T	l.	Karakatsanis Symeon	1		CAU, NERCITA		26/2/2016	2/7/2016
C) I	ecn	inical visits						
	Inst	titution/Company:	HEZE AME	V	A FOODS CO., LTD	(moth	ner company in Sha	andong, Heze, sub-
				_	Xinjan, Lemjin)			
	Dat	te:	1/3/2016 -					
	Loc	ation:	Lvling Tow 274041	'n	High-Tech Industri	al Dev	elopment Zone, He	eze, Sahndong, China,
	Per	son/s of contact:			nu, ( <u>anwar@amev</u> nevafoods.com)	afoods	s.com), George Lyn	nberidis
	Del	egation			Symeon (symeon)	kkar@	gmail.com)	
		ticipants:						
	Sho	ort Description of the	Food Indus	str	y, Canned foods (a	cid ar	nd low acid canned	food), pickled vegetables
		titution/company:						
		mments about the			•		•	Vineyards in Xinjan
	visi	<i>t:</i>	•		est China) to end p eaves) for retail lev		t (stuffed vine leav	es- Dolmades and pickled
			Delivery of	fte	echnical speech (4	days-:	16 hours seminar)	on a)development of
					•			ACCP, BRC, IFS, ISO 22000
			1	-			~	ogical aspects (chemical
			contamina	int	s- pesticides, heav	y met	al) and preventing	systems c) on comparison

### D) Speeches and participation in Workshops/Conferences/Courses

approach

o S	Title of the Course:	Food Safety Standards for International market: HACCP technical speech (1
0 5		day course and 4 days-16 hours personnel training on the spot).

between European and Chinese legislation)

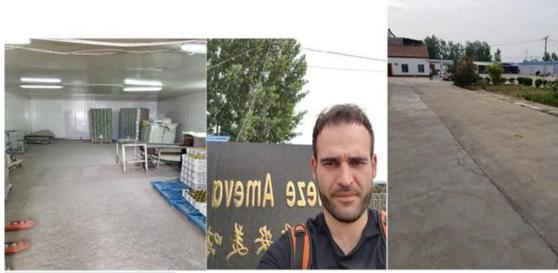
Collection of data/Construction/delivery of a Food Safety CASE STUDY regarding

the residues of pesticides reaching the consumer following farm to fork

Speaker:	Symeon Karakatsanis, Nikolaos Sygrimis-AUA, Dr Li Li-CAU
Organization:*	AUA in cooperation with CAU
Date:	10-15/04/2016
Location:	Heze, Shandong, China, 274041
Person/s of contact:	Symeon Karakatsanis (symeonkkar@gmail.com), George Lymberidis
	(george@amevafoods.com)
Short summary of the presentation:	a) development of HACCP system according to international standards (HACCP, BRC, IFS, ISO 22000 and 9001) b) on Risk assessment emphasizing in toxicological aspects (chemical contaminants- pesticides, heavy metal) and preventing systems c) on comparison between European and Chinese legislation)
Public:	Production and Quality control department of Heze Ameva Foods Co., Ltd

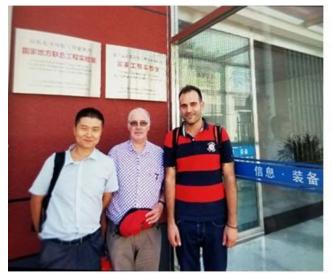
# 03/03/2016-20/05/2016 Visit at Heze Ameva Foods Co., Ltd







### 22/05/2016-24/05/2016 Visit at NERCITA











### 2016.2 Stay report

A) Summary of the exchange and research developed

Visited, with CAU personnel, several places of interest, from East to West China, for application of WP2 objectives and a number of authorities that recognize the TEAP WP2 research trials for expertise development.

B) Delegation composition, visited institutions and	dates.
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•	ocicgation composition	on, visited		ina dati	<u> </u>		
	position of the delegation	T		_	***		
Num.			titution		ition		
1	Jygriffils Mikoldos	AL	IA	Prof	fessor		
Full p	period of stay						
Num.			art Date*		Date**		
1.	Sygrimis Nikolaos	9/3	3/2016	20/4	4/2016		
	nations and dates						
Num.			Visited Institu	ıtion**	Start Date	End Date***	
	Sygrimis Nikolaos		CAU plus		15/3/2016	20/4/2016	
	Sygrimis Nikolaos		TJCC		18/4/2016	18/4/2016	
c) T	echnical visits						
	Institution:	Yunnan Aca	demy of Agricul	tural Scie	nce (YAAS)		
	Date:	17/3/2016-	20/3/2016				
	Location:	Southwest (	China, Province	Yunnan, K	Cunming		
	Person/s of contact:	Mrs. Lu Lin	(491877529@q	q.com)			
	Delegation	Prof. Sygrim	nis, CAU Academ	nician War	ng and students te	am	
	participants:						
1.	Short Description of the		•		•	rdinates to Yunnan	
	Institution/company:				12 departments, 1	15 subordinate research	
ŀ		institutes and 20 affiliated units.					
	Comments about the	Several; visits to YAAS about Fertigation (Water and Fertilizer management) in special Peach production under greenhouse cover for early production (added					
	visit:		•	_			
			innan producers ch as Hong Kong	_	eaches at high price	es in early May to remote	
	Institution:		emy of Agricultu		20 (CAAS)		
	Date:	25/3/2016	erry of Agricultu	i ai Scienc	e (CAAS)		
		-	dia a diataiat				
	Location:	Beijing, Haid					
	Person/s of contact:	Dr. Yang Qio			C1.1.		
2.	Delegation	Prof. Sygrim	nis, Acad. M. Wa	ng and Pr	Of Li Li		
	participants: Short Description of the	Posoarch or	ranization roch	onciblo fo	r hath basis and ar	anlied recearch	
	Institution:	Research of	organization responsible for both basic and applied research				
	Comments about the	Visit a large	sit a large modern Greenhouse inside Beijing of CAAS and exchange ideas				
	visit:	_	bout the progress				
	Institution/Company:		ss area of Wuqi	ng			
	Date:	1/4/2016	33 41 24 31 11 441				
	Location:	NorthEast China, Tianjin Municipality, Wuqing District					
	Person/s of contact:		enkun <houzhe< th=""><th></th><th></th><th></th></houzhe<>				
3.	Delegation		nis and Prof.Li M				
	participants:	i i oi. Jygilli	ns and riot.Li W				
	Short Description of the	New Busine	ss area offering	housing t	o new companies	and organic agriculture	
	Institution/Company:	facilities	2. 2. 2. 2. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.			2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
		1					

	Comments about the visit:	A very promising meeting for housing a spinoff for exploitation of results (MACQU EU technology transferred to China as CAUA) realized under TEAP, with contributions from other sources and CAU joint venture.
	Institution/Company:	Shenyang Agricultural University /Tianning company's/ Chaoyang city Hall
	Date:	6-7/4/2016
		• •
	Location:	Northeast China, Province Liaoning, Shenyang/Chaoyang City,
	Person/s of contact:	Dr Zhouping Sun <sunzhouping@hotmail.com></sunzhouping@hotmail.com>
	Delegation	Prof. Sygrimis, Acad. Wang, CAU student team
	participants: Short Description of the	Changeng Agricultural University administration of both national and local
4.	Institution:	Shenyang Agricultural University administration of both national and local governments
	Comments about the visit:	Attend the government meeting Forum for Agricultural Opportunities in Chaoyang City for the opening ceremony of Academician prof Wang (TEAP partner) workstation of Liaoning Province and visit the greenhouse demo in Tianning Co.Ltd Glasshouse nursery and Solar GH with tubular modern solar collector, Solar Greenhouse strawberries and Solar Greenhouse with MACQU demo machine and Visit *** When a day includes activities in more than one place, it is selected the place
		where the most of the time has been used.
	Institution/Company:	Beijing PAID Information Technology Co. Ltd
	Date:	8/4/2016
	Location:	North China, Beijing, Haidian district
	Person/s of contact:	Du Xiaohong, Gao Miao, E-mail: duxh@nercita.org.cn /gaom@nercita.org.cn
5.	Delegation	Sygrimis and Prof wang and CAU team
3.	participants:	
	Short Description of the	Beijing PAID Information Technology Co. Ltd applies NERCITAS research results in
	Institution:	agricultural production.
	Comments about the	Acquaintance with Electronic capabilities of NERCITA PAID Company for Precision
	visit:	Agriculture Equipment
	Institution:	Shandong Academy of Agricultural Machinery Sciences
	Date:	14/4/2016
	Location:	East China, Province Shandong, Shandong
	Person/s of contact:	Prof. Sygrimis and Acad. Maohua Wang, Dr. Li Li , Dr. Fanjia Meng and two
6.	Delegation participants:	Students(Junheng Wang and Yonghang Mu)
	Short Description of the	Greenhouse nursery State center, looking for fertigation experience and
	Institution:	evaluating fertigation equipment
	Comments about the	An experimental station that also supplies seedlings as well as conducting
	visit:	nutritional experiments on substrates.
	Institution/Company:	Jinan Weili Seeds Co. LTO, and several other commercial nurseries and water
		melon greenhouses
	Date:	15/4/2016
	Location:	East China, Province Shandong, Shandong
_	Person/s of contact:	Li Ly <lily@cau.edu.cn></lily@cau.edu.cn>
7.	Delegation	Prof. Sygrimis and Acad. Maohua Wang, Dr. Li Li , Dr. Fanjia Meng and two
	participants:	Students(Junheng Wang and Yonghang Mu)  A hig firm with a number of production grouphouses but also well automated
	Short Description of the Institution/Company:	A big firm with a number of production greenhouses but also well automated seedlings production with control of photoperiodic treatments.
	Comments about the	ADD
	visit:	
	Institution/Company:	Xincheng Modern Agricultural Co.LTO
	Date:	16/4/2016
8.	Location:	East China, Province Shandong, Huimin
	Person/s of contact:	Li Ly <lily@cau.edu.cn></lily@cau.edu.cn>
	. ,	

	Delegation	Prof. Sygrimis and Acad. Maohua Wang, Dr. Li Li , Dr. Fanjia Meng and two
	participants:	Students(Junheng Wang and Yonghang Mu)
	Short Description of the	Solar Greenhouses for CAUA demo installation
	Institution/Company:	
	Comments about the	This is a modern agricultural company on the light of Urbanization needs food
	visit:	from nearby agricultural fields. The company has a big acreage for production of
		open field vegetables and tree fruits as well as a modern 2 hectare Glasshouse. It
		has also 10 Solar greenhouses planned for installation of the CAUA machine with
		climate nodes in each greenhouse for a complete management of fertigation and
		climate conditions for special crops and advance to agritourism.
	Institution/Company:	Tianjin Meteo Greenhouse cooperation research, Tianjin city-Israel Solar
		Greenhouse development Center, Tianjin Meteo Station partner of TEAP
	Date:	17/4/2016-18/4/2016
	Location:	North China, Tianjin Municipality, Tianjin
	Person/s of contact:	Dr. Li Ming lim@nercita.org.cn
	Delegation	Prof. Sygrimis
	participants:	
	Short Description of the	Tianjin Meteo Service (TEAP partner TJCC) has experimental greenhouses and is
9.	Institution/Company:	developing climate predictive modelling for early Warnings for the Horticultural
		sector of Tianjin Regional Government. *** When a day includes activities in more than
		one place, it is selected the place where the most of the time has been used.
	Comments about the	Visited Tianjin Center Experimental Greenhouses where we were informed about
	visit:	the Weather Stations used as IOT for data collection and conduct Early Warnings
		to the Tianjin District that has a large area of commercial greenhouses for the Big
		markets of Beijing and Tianjin. After the Tianjin Meteo Station we visited a big
		Research Center on Solar Greenhouses as a cooperation of Tianjin City with
		Israel.
	'   L' - '	
D) S		ation in Workshops/Conferences/Courses
D) S	Title of the Course:	Technology transfer training courses
D) S	Title of the Course: Speaker:	Technology transfer training courses Sygrimis Nikolaos
D) S	Title of the Course:	Technology transfer training courses Sygrimis Nikolaos CAU
es es	Title of the Course: Speaker: Organization:* Date:	Technology transfer training courses Sygrimis Nikolaos CAU 21/3/2016-24/3/2016
es es	Title of the Course: Speaker: Organization:* Date: Location:	Technology transfer training courses  Sygrimis Nikolaos  CAU  21/3/2016-24/3/2016  North China, Beijing, Haidian district
	Title of the Course: Speaker: Organization:* Date: Location: Person/s of contact:	Technology transfer training courses  Sygrimis Nikolaos  CAU  21/3/2016-24/3/2016  North China, Beijing, Haidian district  LI li, lily@cau.edu.cn
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es es	Title of the Course: Speaker: Organization:* Date: Location: Person/s of contact: Short summary of the presentation: Public:	Technology transfer training courses  Sygrimis Nikolaos  CAU  21/3/2016-24/3/2016  North China, Beijing, Haidian district  LI li, lily@cau.edu.cn  Teaching students how to Support new MACQU technology and preparing an Irrigation-Fertigation Guidance  CIEE students
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Course	Title of the Course: Speaker: Organization:* Date: Location: Person/s of contact: Short summary of the presentation: Public: Title of the Course: Speaker: Organization:* Date: Location: Person/s of contact: Short summary of the presentation: Public: Title of the Course: Speaker: Organization:* Date: Location: Public: Title of the Course: Speaker: Organization:* Date: Location:	Technology transfer training courses  Sygrimis Nikolaos  CAU  21/3/2016-24/3/2016  North China, Beijing, Haidian district  LI Ii, lily@cau.edu.cn  Teaching students how to Support new MACQU technology and preparing an Irrigation-Fertigation Guidance  CIEE students  Train students on Fertilizer needs calculation and setup of CAUA system  Sygrimis Nikolaos  CAU  26/3/2016-31/3/2016  North China, Beijing, Haidian district  LI Ii, lily@cau.edu.cn  Teaching students and preparing paper publication and delivered Report on Nutritional Needs of Plants for students and YUNNAN – Fertilization Speech  CIEE students  Shenyang Hydroponics- Organic Substrates  Sygrimis Nikolaos  CAU  2/4/2016-4/4/2016  North China, Beijing, Haidian district
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Course	Title of the Course: Speaker: Organization:* Date: Location: Person/s of contact: Short summary of the presentation: Public: Title of the Course: Speaker: Organization:* Date: Location: Person/s of contact: Short summary of the presentation: Public: Title of the Course: Speaker: Organization:* Date: Location: Public: Title of the Course: Speaker: Organization:* Date: Location:	Technology transfer training courses  Sygrimis Nikolaos  CAU  21/3/2016-24/3/2016  North China, Beijing, Haidian district  LI Ii, lily@cau.edu.cn  Teaching students how to Support new MACQU technology and preparing an Irrigation-Fertigation Guidance  CIEE students  Train students on Fertilizer needs calculation and setup of CAUA system  Sygrimis Nikolaos  CAU  26/3/2016-31/3/2016  North China, Beijing, Haidian district  LI Ii, lily@cau.edu.cn  Teaching students and preparing paper publication and delivered Report on Nutritional Needs of Plants for students and YUNNAN – Fertilization Speech  CIEE students  Shenyang Hydroponics- Organic Substrates  Sygrimis Nikolaos  CAU  2/4/2016-4/4/2016  North China, Beijing, Haidian district

	Public:	Shenyang grad students
	Title of the Workshop:	Deliver a speech for the Horticultural Forum of SYAU for modern hydroponics
	Speaker:	Sygrimis Nikolaos
	Organization:*	Shenyang Agricultural University for the Forum of horticulture
do	Date:	6/4/2016
Workshop	Location:	Northeast China, Province Liaoning, Shenyang
	Person/s of contact:	Dr Zhouping Sun <sunzhouping@hotmail.com></sunzhouping@hotmail.com>
≥	Short summary of the	The future of Solar Greenhouses and how to manage sustainable hydroponic
	presentation:	production (ppt available)
	Public:	Dr. Li Li (CAU)Dr. Hongbo Yuan (CAU) and two students (Yong Wu and Qiang
		Fu) together go to fix the machine in SYAU ADD++
	Title of the Course:	Technology transfer training courses
	Speaker:	Sygrimis Nikolaos
	Organization:*	CAU
Se	Date:	19/4/2016 20/4/2016
Course	Location:	North China, Beijing, Haidian district
ŭ	Person/s of contact:	LI li, lily@cau.edu.cn
	Short summary of the	instructions to students for YUNNAN machine problems restoration
	presentation:	
	Public:	Project team students

17/3/2016-20/3/2016-Yunnan Academy of Agricultural Science (YAAS)





















17/3/2016-20/3/2016Yunnan Academy of Agricultural Science (YAAS cont'd)

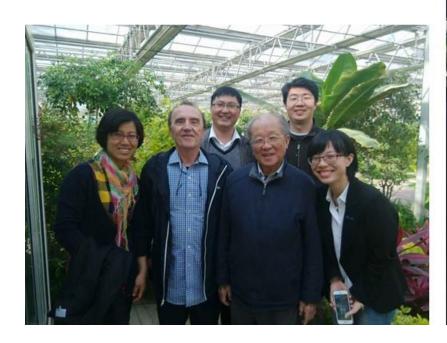


### 25-03-2016 CAAS Visit













2016.04.01 Wuqing Industrial Development area, meeting with local authorities for possibilities to establish in Wuqing a CAUA spinoff company for Water-Fertilizers, Greenhouses, Fisheries Management in the prospects of Agriculture4.



From: 侯 [mailto:houzhenkun@126.com] **Sent:** Tuesday, April 05, 2016 6:31 AM

**To:** Nikos Sigrimis **Subject:** Re:

Hi Nick,

It was such a pleasure to meet you on last Friday! And we are so impressed by your friendliness and enthusiasm.

The photos are not ready yet and I will send them to you ASAP~

Director of Science and Technology (on my left on the discussion table) of the Wuqing District ~The name is Sun Tie

#### Best regards

#### Claudia

中国·天津武清商务区

招商部 侯震坤

手机: 153-3203-6053 Q Q: 506648893 电话: 022-22985599; 传真: 022-22985885

地址:中国天津武清商务区国际企业社区 B6 三层 邮编: 301700

#### Dear Claudia

You are an outstanding personality on the job and thank you for spending the whole day with us. I really enjoyed it. Photos any time. Thank you for taking care.

Kind regards

nick

Prof. AUA, Nick Sigrimis, PhDEE Cornell University
M.IEEE/CS,CSS,RAS/, IFAC, EurAgEng, ASAE
CIGR<http://www.cigr.org/ > / IT section [VII], founder & honor-Chairman
Geomations SA, AUA spinoff RTD & commercial SME, Founder and President
http://www.aua.gr/ns, www.geomations.com, www.hortimed.org

6-7/4/2016 Visit Shenyang Agricultural University, Tiannin company, Chaoyang City HALL













# 6-7/4/2016 Visit Shenyang Agricultural University, Chaoyang City HALL, Tiannin company,



























14/4/2016-Visit Shandong Academy of Agricultural Sciences- state nursery house









15/4/2016 – Visit Jinan Weili Seeds Co. LTO, and several other commercial nurseries and water melon greenhouses



16/4/2016 – Visit Xincheng Modern Agricultural Co.LTO, East China, Province Shandong, Huimin

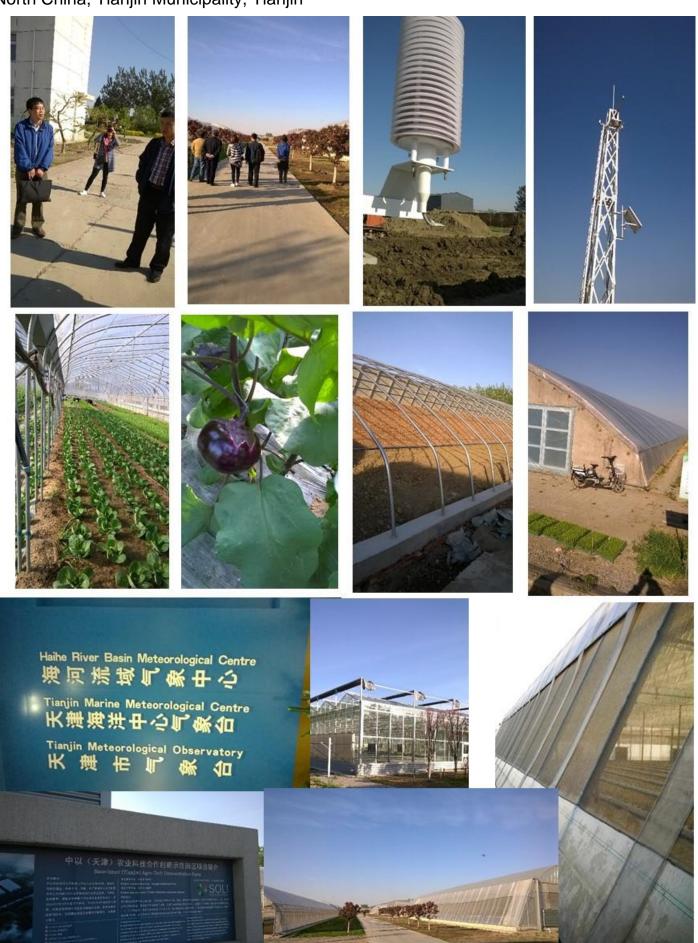








17/4/2016-18/4/2016 – Visit Tianjin Meteo Greenhouse cooperation research, Tianjin city-Israel Solar Greenhouse development Center, Tianjin Meteo Station partner of TEAP, North China, Tianjin Municipality, Tianjin



#### 2016.3 Stay report

#### A) Summary of the exchange and research developed

Case Study on Vineyard leaves for "Dolmades" exported from China. Cont'd from StayReport 2016.1 for Risk Assessment and Deliver Case Study.

#### B) Delegation composition, visited institutions and dates.

• (	Composition of the delegation					
Num.	Name	Inst	itution	Posi	tion	
1.	Karakatsanis Symeon (MSc AUA and MSc Wageningen University)	AUA	4	Con	tract Researcher Food	Processing
•	Full period of stay					
Num.	Name	Sta	rt Date*	End	Date**	
1.	Karakatsanis Symeon	16/	7/2016	21/1	10/2016	
•	Destinations and dates					
Num.	Name		Visited Institution	1**	Start Date	End Date***
1.	Karakatsanis Symeon		NERCITA, CAU	•	17/7/2016	21/10/2016

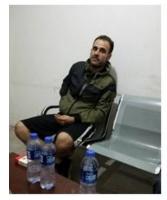
#### c) Technical visits

Institution/Company:	HEZE AMEVA FOODS CO., LTD (mother company in Shandong, Heze, sub-
	company in Xinjan, Lemjin)
Date:	20/07/2016 – 20/10/2016
Location:	Lvling Town High-Tech Industrial Development Zone, Heze, Sahndong, China,
	274041
Person/s of contact:	Anwar Haximu, (anwar@amevafoods.com), George Lymberidis
	(george@amevafoods.com)
Delegation	Karakatsanis Symeon
participants:	
Short Description of the	Food Industry, Canned foods (acid and low acid canned food), pickled vegetables
Institution/company:	
Comments about the	Has followed and analyzed the production from Farm (Vineyards in Xinjan
visit:	province, West China) to end product (stuffed vine leaves- Dolmades and pickled
	jarred vine leaves) for retail level.
	Construction/delivery of a Food Safety CASE STUDY regarding the residues of
	pesticides reaching the consumer following farm to fork approach
	Development of accurate traceability system from Fark to Fork
	Development of water management system in order to reduce at low level the
	chemical contaminants

### D) Speeches and participation in Workshops/Conferences/Courses

•	' '	
	Title of the Course:	A daily process analysis and market Food Safety requirements analysis and design for a better purifying and preservations process at Xinjan while respecting the Environmental Effluents and Water saving (as reflected in Case Study)
	Speaker:	Symeon Karakatsanis ( <u>symeonkkar@gmail.com</u> ),
Se	Organization:*	AUA
Course	Date:	23/07/2016
ၓ	Location:	Sub company of Ameva, Xinjan, Lemjin
	Person/s of contact:	Anwar Haximu, (anwar@amevafoods.com), George Lymberidis
		(George@amevafoods.com),
	Short summary of the	High money Cost for Ameva Company to treat Waste water and
	presentation:	Environmental cost of effluents (many contaminants) and how to improve.
	Public:	Ameva Company & Case Study

21/7/2016- 31/08/2016 2<sup>nd</sup> visit in Xingjian grape yards and facilities of pickling of grape leaves

















16/10/2016- 20/10/2016 2<sup>nd</sup> visit in NERCITA





02/09/2016- 16/10/2016 2<sup>nd</sup> visit at Heze Ameva Foods Co., Ltd









2016.4 Stay repor
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## A) Summary of the exchange and research developed

ADD

# B) Delegation composition, visited institutions and dates.

• (	Composition of the delegation						
Num.	Name Inst		itution	Posi	Position		
1.	Sygrimis Nikolaos AUA		4	Prof	Professor		
2.	Christopoulou Vasiliki AUA		4	MS student Food Science			
3.	Karakatsanis Symeon (MSc AUA and MSc Wageningen University)	AUA	4	Cont	ntract Researcher Food Processing		
Full period of stay							
Num.	Name Star		rt Date*	End Date**			
1.	Sygrimis Nikolaos 17/2		10/2016	2/12/2016			
2.	Christopoulou Vasiliki 17/2		10/2016	20/12/2016			
3.	Karakatsanis Symeon 29/2		10/2016	28/12/2016			
• [	Destinations and dates						
Num.	Name		Visited Institution**		Start Date	End Date***	
1.	Sygrimis Nikolaos		CAU		17/10/2016	2/12/2016	
2.	Christopoulou Vasiliki		CAU		17/10/2016	20/12/2016	
3.	Karakatsanis Symeon		NERCITA, CAU		29/10/2016	28/12/2016	

### C) Technical visits

Institution/Company:	NERCITA
Date:	19/10/2016
Location:	North China, Beijing, Haidian district
Person/s of contact:	Li Ming <lim@nercita.org.cn></lim@nercita.org.cn>
Delegation	Sygrimis Nikolaos, Christopoulou Vasiliki,
participants:	
Short Description of the	NERCITA is a partner
Institution/company:	
Comments about the	A NERCITA infrastructure and activities acquaintance and was a TEAP progress
visit:	meeting and scheduling next year visits to Greece. Christopoulou got acquainted
	with this partner.
Company:	ICSaid Technical Tour to Yegu Group outside Beijing
Date:	30/10/2016
Location:	North China, Beijing,
Person/s of contact:	Yegu <yegujituan@163.com></yegujituan@163.com>
Delegation	Sygrimis Nikolaos, Christopoulou Vasiliki,
participants:	
Short Description of the	Modern agritourist farm with special Animals (camels etc) and Organic
Institution/company:	Greenhouses and biological Food Restaurant.
Comments about the	Discussed about TEAP objectives and Food safety
visit:	
Institution:	SDAU
Date:	4/11/2016
Location:	East China, Shandong Province,
Person/s of contact:	Dr Li Ming <lim@nercita.org.cn></lim@nercita.org.cn>
Delegation	Sygrimis Nikolaos, Christopoulou Vasiliki, Dr. Ming Li
participants:	

	Short Description of the	College of Horticultural Science and Engineering-SDAU
	Institution/company:	
	Comments about the	Participants of meeting PhD, Professors Min WEI, Qinghua SHI, JIAN, TSU
	visit:	Topics Greenhouse Design & Optimization, Tomato& Eggplant Cultivation
		Optimization, Soilless Culture Optimization
	Institution:	COFCO
	Date:	7/11/2016
	Location:	East China, Shandong Province, Huimin
	Person/s of contact:	Xiaowei <zhengxiaowei@cofco.com></zhengxiaowei@cofco.com>
	Delegation	Sygrimis Nikolaos, Christopoulou Vasiliki, Dr. Ming Li
	participants:	, , , , , , , , , , , , , , , , , , , ,
-	Short Description of the	College of Horticultural Science and Engineering
	Institution/company:	
	Comments about the	Participants of meeting PhD, Professors Min WEI, Qinghua SHI, JIAN, TSU
	visit:	Topics Greenhouse Design & Optimization, Tomato  Eggplant Cultivation
		Optimization, Soilless Culture Optimization
D) Sp	peeches and participa	ation in Workshops/Conferences/Courses
	Title of the Course	Cubstrates and Nutrient Deficiencies
	Title of the Course:	Substrates and Nutrient Deficiencies
	Speaker:	Sygrimis Nikolaos
a)	Organization:*	Shenyang Agricultural University
Course	Date:	23/10/2016-27/10/2016
õ	Location:	Northeast China, Liaoning Province, Shenyang City
O	Person/s of contact:	Dr Sun <sunzhouping@hotmail.com></sunzhouping@hotmail.com>
	Short summary of the	A 4 days seminar on TEAP WP2 objectives as to reduce water and nutrient
	presentation:	waste by hydroponic cultivations.
	Public:	25 Graduate students
	Title of the Course:	ICSaid Conference
	Speaker:	Sygrimis
	Organization:*	CAU organiser
rse	Date:	29/10/2016
Course	Location:	Beijing China
0	Person/s of contact:	Li Li
	Short summary of the	TEAP as implemented by smart Agriculture
	presentation:	Table and the address of the address
	Public:	International auditorium
	Title of the Conference	
	Speaker:	Sygrimis Nikolaos
	Organization:*	SCAU South China Agriculture University
a	Date:	13-15/11/2016
SUE	Location:	Guangdong Province, City Guangzhou, South China Agricultural University,
Conferance		Library Auditorium
oní	Person/s of contact:	Prof Yubin Lan <ylan@scau.edu.cn></ylan@scau.edu.cn>
Ö	Short summary of the	Smart Precision Agriculture and the Evolution of UAVs: Is It a Smart Concept?
	presentation:	The Conference was concentrated on using Drones for precision spraying that
		is a measure to reduce environmental load from pesticides as well as improve Food Safety.
	Public:	International Precision Agricultural Aviation Community
	Title of the Workshop:	APEC Wisdom Agriculture Development and Application Workshop
ĕ	Speaker:	Sygrimis Nikolaos, Christopoulou Vasiliki
Conferance	Organization:*	Agricultural Information Institute, Chinese Academy of Agricultural Sciences,
Feri	Organization:	Foreign Affairs Office of Ningxia Hui Autonomous Region
uo	Date:	23-26/11/2016
ŏ	Location:	
	LOCATION:	Ningxia Hui Autonomous Region, Yinchuan

	Person/s of contact:	Dr Xiuming, guoxiuming@caas.cn
	Short summary of the	The visit ti Yinchua was organized for APEC countries and many links were
	presentation:	established for transferring TEAP results to other East Asia countries.
	Public:	International representatives of APEC organization
	Title of the Course:	International Rice Conference
	Speaker:	Sygrimis Nikolaos
	Organization:*	SCAU
	Date:	28-30/11/2016
ILSC	Location:	Guangzhou
Course	Person/s of contact:	Prof Luo <zyzhou@scau.edu.cn></zyzhou@scau.edu.cn>
	Short summary of the	Academician Luo is the organizer and had visited Greece – Rice fields in 2013
	presentation:	and wanted to express the technology for Rice seeding rather than seddling
		transplanting as practiced in China
	Public:	International























[Oct27-30 / 2016] CHINA DEVELOPMENT FORUM and 3d International Conference On Smart Agriculture Innovative Development

**Technology Institutions and Sciences to Meet** Societal Expectations from a Smart Agriculture

Dr Nick Sigrimis, GREECE 希腊 TEAP EU-CHINA

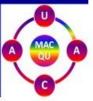




spinoff















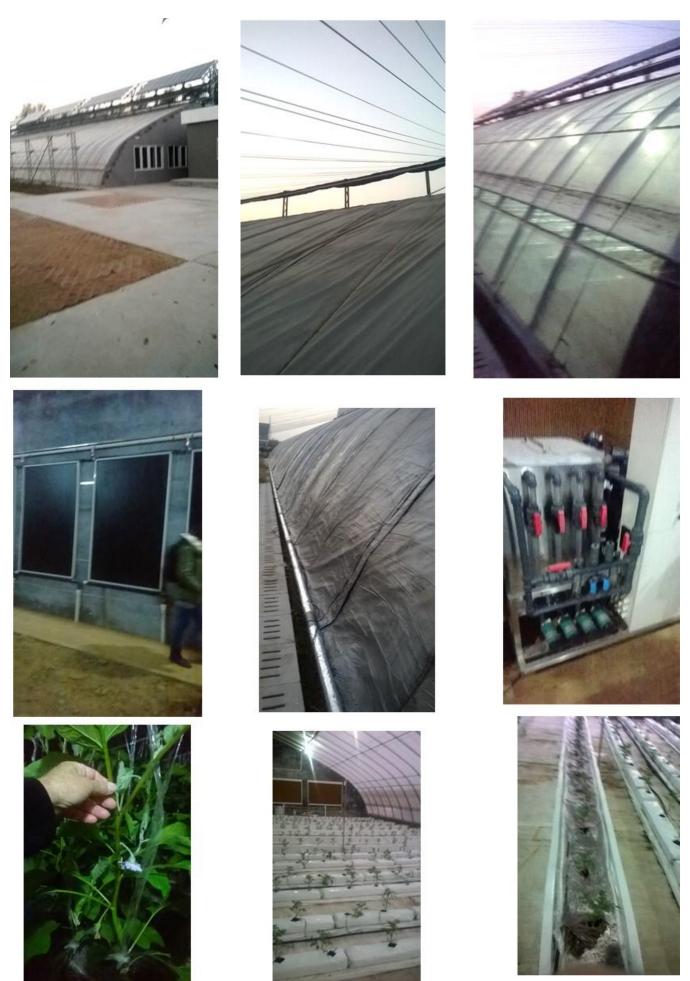


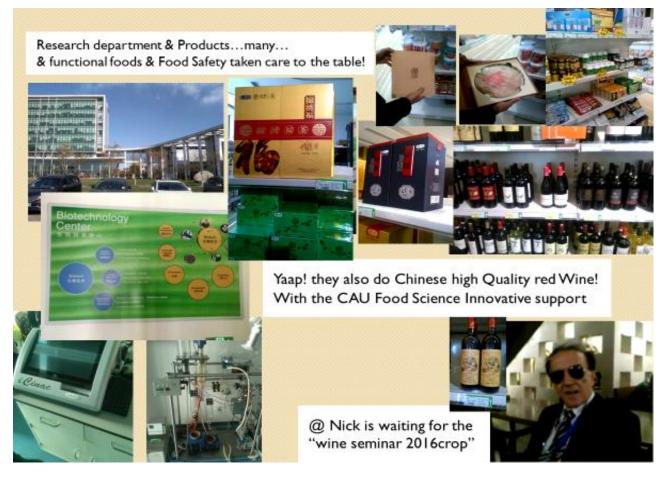






# 4/11/2016SDAU









Happy after Nutrition Modeled lunch















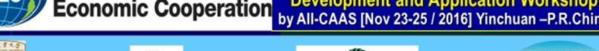




23-26/11/2016 - Agricultural Information Institute, Chinese Academy of Agricultural Sciences, Foreign Affairs Office of Ningxia Hui Autonomous Region - APEC Wisdom Agriculture Development and Application Workshop/Sygrimis Nikolaos, Christopoulou Vasiliki



# APEC - WISDOM AGRICULTURE Development and Application Workshop by All-CAAS [Nov 23-25 / 2016] Yinchuan -P.R.China











# "Internet+ for a smart\_farmer and smart\_Consumer : towards a smart\_Earth?

Nick Sigrimis, Professor of Agricultural University of Athens, GREECE Li Li, Asst Professor, China Agricultural University, CHINA

# Sir Winston-Churchill said: The further backwards you look the further forward you can see

































#### 2017.1 Stay report

#### A) Summary of the exchange and research developed

This exchange is focused on dissemination of WP2 developments and has 3 major visits of which two in YUNNAN Region for finalizing two installations/demo sites of CAUA system and one to Shenyang University (SYAU) that is for all three key for future cooperation and dissemination. Yunnan Region is a fast-developing Region with special products (flowers, fruits) for exporting. SYAU vice president Academician Tian Lai Li for is active in Solar Greenhouse modern energy sustainability design and can be complemented by CAUA system in sustainable management.

#### B) Delegation composition, visited institutions and dates.

Composition of the delegation						
Num.	Name	Inst	itution	Posi	tion	
1.	Sygrimis Nikolaos	AUA		Professor		
Full period of stay						
Num.	Name	Sta	rt Date*	End Date**		
1.	Sygrimis Nikolaos	16/	5/2017	10/6/2017		
Destinations and dates						
Num.	Name		Visited Institution	**	Start Date	End Date***
1.	Sygrimis Nikolaos		CAU		16/5/2017	10/6/2017

#### c) Technical visits

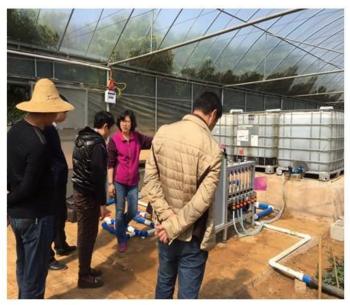
-,		
	Institution/Company:	YUNNAN- Kayuan-Kunming YAAS
	Date:	20/5/2017-21/5/2017
	Location:	South-West China, Yunnan Region
	Person/s of contact:	Mrs. Lu Lin
	Delegation	Professor Sygrimis-AUA, Prof Li Minzan-CAU
	participants:	
	Short Description of the	Visit a Shangde Kaiyuan Flower production Company for final re-installation of
	Institution/company:	CAUA demo and YAAS to restore CAUA for early peach cultivation in
		Greenhouses.
	Comments about the	Very successful visit for the two installations that regard water and fertilizer
	visit:	savings but also quality and productivity.
	Institution/Company:	Shenyang Agricultural University
	Date:	22-25/5/2017
	Location:	North China, Liaoning Region
	Person/s of contact:	Dr Sun Zhouping < <u>sunzhouping@hotmail.com</u> >
	Delegation	Professor Sygrimis
	participants:	
	Short Description of the	Shenyang Agricultural University is very active in North China cold weather Solar
	Institution/company:	Greenhouse design. It has a strong Department with many grad students on
		Farm Structures with special focus on Protected Horticulture headed by Vice
		President Academician Tian Lai Li.
	Comments about the	This visit established a continuum on academic cooperation and on advising grad
	visit:	students on their research and publications. About 12 MS students and two PhD
		candidate are advised by Prof Sigrimis. They all about soilless cultivations (ag.
		waste for substrates, fertilizers, climate control, Solar Energy ) towards a cyclic
		agriculture.
	Institution/Company:	NERCITA headquarters
	Date:	5/6/2017
	Location:	North China, Beijing, Haidian district
	Person/s of contact:	Du Xiaohong,Gao Miao, E-mail: duxh@nercita.org.cn /gaom@nercita.org.cn

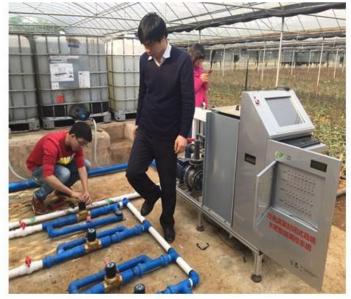
	Delegation	Professor Sygrimis
	participants:	
	Short Description of the	National Engineering Research Center for Information Technology in Agriculture
	Institution/company:	is a partner of TEAP
visit:		Have started writing preproposals in 2016 for Greek China bilateral Program and this visit has given a clear picture on the activities and infrastructure of NERCITA (Drones and precision spraying for Early detection and minimum chemicals,
		Electronic nose for fish freshness, Chicken semi-intensive better egg production quality)
D) S	peeches and particip	ation in Workshops/Conferences/Courses
	Title of the Course:	Substrates
	Speaker:	Professor Sygrimis
	Organization:*	CAU
do	Date:	17/5/2017 19/5/2017
Workshop	Location:	North China, Beijing, Haidian district
ork	Person/s of contact:	Dr. Yang Wei, cauyw@cau.edu.cn
Š	Short summary of the presentation:	Preparation of team work for Improving the two demo sites in YUNNAN
	Public:	Sygrimis and Wang Maohua academicians and task force grad student members
	Title of the Course:	Greenhouse Cultivation Seminar, Substrate types and nutrition needs in soilless cultivations
	Speaker:	Professor Sygrimis
	Organization:*	Shenyang Agricultural University
	Date:	22/5/2017 28/5/2017
a	Location:	Liaoning-Shenyang
ırsı	Person/s of contact:	Dr Sun Zhouping < <a href="mailto:sunzhouping@hotmail.com">sunzhouping@hotmail.com</a> >
Course	Short summary of the	Visit new type of Greenhouse, prepare publication, contact seminars with
	presentation:	students regarding substrates for Cyclic Agriculture, LED in Plant Factories, and
		discuss with grad students each theses project how to design experiments for
		more secure results and turning the subjects for more sustainable solutions
		and recommend how the CAUA Demo may support several types of
		experiments from Hydroponics to substrate and soil based fertigation.
	Public:	18 grad students of Horticultural Department















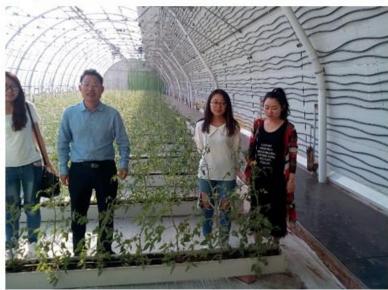


# 22-25/5/2017Shenyang Agricultural University



















22-25/5/2017Shenyang Agricultural University













# 2017.2 Stay report

# A) Summary of the exchange and research developed

CAU visit for ICSaid International Conference on the subject similar to TEAP and graduation and new admissions ceremonies.

# B) Delegation composition, visited institutions and dates.

Composition of the delegation									
Num.	Name	Inst	itution	Position					
1.	Sygrimis Nikolaos	AUA	A	ADD					
•	Full period of stay								
Num.	Name	rt Date*	End Date**						
1.	Sygrimis Nikolaos	5/7	/2017	18/7/2017					
•	Destinations and dates								
Num.	Name		Visited Institution**		Start Date	End Date***			
1.	Sygrimis Nikolaos	ygrimis Nikolaos		CAU		18/7/2017			

# c) Technical visits

Institution/Company:	CAU graduation and prize ceremonies						
Date:	7-14/7/17						
Location:	North China, Beijing						
Person/s of contact:	Dr. Yang Wei, cauyw@cau.edu.cn						
Delegation participants:	Sygrimis Nikolaos						
Short Description of the Institution/company:	Laboratory testing of CAUA system and final fertilizer dosing valve selection.  Participation in 2 PhD defense presentations and CAU annual prizes.						
Comments about the visit:	After ICSaid2017 Conference followed with preparation of 2 MS students students (Li Shuaishuai and Wang Hongkang) to visit TEAP-AUA in Greece for two months July to September						
Institution/Company:	CABI-CAAS Beijing						
Date:	14/7/17						
Location:	North China, Beijing						
Person/s of contact:	Prof Feng Zhang leader of CABI <f.zhang@cabi.org></f.zhang@cabi.org>						
Delegation participants:	Sygrimis Nikolaos						
Short Description of the Institution/company:	Visit to CAAS for CABI and discuss the possibilities to help development of Myanmar country and other SE Asia and Africa countries. The evening was offered by Prof Feng leader of CABI in SE Asia in a North Korean bbq music restaurant.						
Comments about the visit:	Very promising meeting as the effort of CABI is the sustainable development of underdeveloped countries and that may be combined with the "new silk road" efforts of China.						

# D) Speeches and participation in Workshops/Conferences/Courses

	Title of the Conference:	ICSaid Third China Forum on Innovative Development of Smart Agriculture						
	Speaker:	Sygrimis Nikolaos						
	Organization:*	CAU						
JCe	Date:	7/7/2017 9/7/2017						
Conference	Location:	North China, Beijing, Haidian district						
nfe	Person/s of contact:	LI li, <u>lily@cau.edu.cn</u>						
ဝ	Short summary of the	participated and delivered invited speech (as per speeches catalogue						
	presentation:	ICSAID2017 in Appendix 1) in the Third China Forum on Innovative						
		Development of Smart Agriculture hosted by China Agricultural University,						
		China Agricultural University, sponsored by the School of Information and						

		Electrical Engineering. Also participated on handing the awards to grad
		students. Celebrated by Academician M. Wang at KTV in the evening of July 9.
		Seminar Presentation is attached as pdf.
	Public:	International Conference audience
	Title of the Course:	Improving CAUA demo Installations and User Support
	Speaker:	Sygrimis Nikolaos
	Organization:*	CAU
	Date:	10/7/2017 13/7/2017
	Location:	North China, Beijing, Haidian district
	Person/s of contact:	Dr. Yang Wei, cauyw@cau.edu.cn
	Short summary of the	Laboratory Task Force commissioned Prof. Sygrimis's device board (master
	presentation:	control improvements). discussed the issue of the current Chinese compound
	presentation	fertilizers and European single fertilizers in the office of Teacher Wang. Nick
Course		gave a briefing on how 22Wang can provide the nutrients that plants need by
no		just adjusting EC, pH. remote operation of Suntech Co., Ltd. Yunnan
S		unfinished solenoid valve by TeamViewer. The team discussed the
		improvement of Yunnan Kaiyuan equipment. Prof. Sygrimis is a member of the
		project (Master Mu Yonghang, Shuai Li Shuai, Wang Hongkang, Ph.D. Wu
		Yong) to explain Excel required for plant nutrition and EC and pH matching.
		made a suggestion on the coupling test of water and fertilizer greenhouse
		proposed by Dr. Wu Yong, and the research group discussed the treatment of
		test results.
	Public:	members of the project (Master Mu Yonghang, Shuai Li Shuai, Wang
		Hongkang, Ph.D. Wu Yong)
	Title of the Course:	Indoor water and fertilizer of strawberry
	Speaker:	Professor Sygrimis,
	Organization:*	CAU
	Date:	15/7/2017 16/7/2017
- O	Location:	North China, Beijing, Haidian district
Course	Person/s of contact:	LI li, lily@cau.edu.cn
ပိ	Short summary of the	Prof. Sygrimis instructed the soil group Master Lin Pei to test the indoor water
	presentation:	and fertilizer of strawberry. Professor Sygrimis attends the group meeting of
	'	Teacher Zhang Miao in the teacher 's office of Wang, mainly studying the
		problem of lettuce nutrition liquid.
	Public:	Teacher Zhang Miao, Master Lin Pei
	Title of the Workshop:	Application of Meteo -Data for early warning and Energy pro-active
		management
	Speaker:	Professor Sygrimis and Dr Li Ming of NERCITA
	Organization:*	TJCC
	Date:	17/7/2017 18/7/2017
	Location:	North China, Tianjin Municipality, Tianjin
Workshop	Person/s of contact:	Li Ming-NERCITA
ks	Short summary of the	Visit TJCC and have a discussion about latest developments on Greenhouses
No.	presentation:	Application of Meteo -Data for early warning and Energy pro-active
>		management as per weather predictions for a week and discussed the
		weather models and probabilities for errors in predictions for Risk
		Management approaches as per paper published on the subject of Solar
		Greenhouses. It was identified mutual interest for follow-up on cooperation in
		the GK-CHINA upcoming projects.
	Public:	Tianjin Meteo- Service personnel
•	•	· · · · · · · · · · · · · · · · · · ·







## 2017.3 Stay report

# A) Summary of the exchange and research developed

- 1. Participate, with two professional colleagues, in the International Conference meeting organized by TEAP Partner NERCITA, followed by TEAP closing ceremony and discussions for next undertakings for project proposals.
- 2. Conduct a course/workshop with SYAU grad students for preparing next experiments and preparing articles for international journals.

## B) Delegation composition, visited institutions and dates.

Composition of the delegation								
Num.	Name	itution	Posi	osition				
1.	Sgouropoulou Kleio	Uni Atti	versity of West ca	Head	ead of Informations Systems Dept.			
2.	Voyiatzis Ioannis	Uni Atti	versity of West ca	Prof	rofessor of Informations Systems Dept.			
3.	Sygrimis Nikolaos	AUA	A	Prof	essor of Automation			
•	Full period of stay							
Num.	Name	Sta	rt Date*	End Date**				
1.	Sgouropoulou Kleo	10/	8/2017	15/8/2017				
2.	Voyiatzis Ioannis	10/	8/2017	15/8/2017				
3.	Sygrimis Nikolaos	11/	8/2017	22/8/2017				
•	Destinations and dates							
Num.	Name		Visited Institution	**	Start Date	End Date***		
1.	Sgouropoulou Kleo		NERCITA/ICIA2017		10/8/2017	15/8/2017		
2.	Voyiatzis Ioannis		NERCITA/ICIA2017		10/8/2017	15/8/2017		
3.	Sygrimis Nikolaos		NERCITA/ICIA2017-SYAU		11/8/2017	22/8/2017		

## C) Technical visits

Institution/Company:	Shenyang Agricultural University (SYAU)
Date:	16-21 /8 /2017 SYAU
Location:	Liaoning NorthEast China
Person/s of contact:	Dr Sun <sunzhouping@hotmail.com></sunzhouping@hotmail.com>
Delegation participants:	Nick Sygrimis
Short Description of the Institution/company:	The SYAU is a strong North China University with activities on supporting Rice and Horticultural cultivations and designed a modern Solar Greenhouse that is under investigation with Prof Sygrimis of its advantages and possibilities of improving. It made also a presentation in ICIA conference and created good discussions with the audience.
Comments about the visit:	Have discussed and trained the CAUA programming operations and initiated the writing of two papers (in acknowledge of TEAP)

## D) Speeches and participation in Workshops/Conferences/Courses

	Title of the Course:	ICIA 2017					
	Speaker:	N. Sygrimis, Kleio Sgouropoulou, John Voyatzis					
မွ	Organization:*	NERCITA					
Suc	Date:	10-15/8/2017					
Conference	Location:	Changchun- Jillin North CHINA					
oni	Person/s of contact:	LI Ming < lim@nercita.org.cn>					
Ö	Short summary of the	International Conference for Intelligent Agriculture (ICIA) has gathered a					
	presentation:	number of High-End professionals from Japan-Europe-USA and presented the					
		prospects in climate smart Agriculture and Food Security and Safety. Sygrimis					

		has Called also and conducted a panel discussion on Plant Factories.				
		Presentations are in Appendix 1				
	Public:	International Conference auditorium.				
	Title of the Course:	Experimental Greenhouse Operations				
	Speaker:	N. Sygrimis				
	Organization:*	Shenyang Agricultural University				
Se	Date:	16-21/7/2017				
Course	Location:	Liaoning NorthEast China				
ပ	Person/s of contact:	Dr Sun <sunzhouping@hotmail.com></sunzhouping@hotmail.com>				
	Short summary of the	Present Hydroponics and TEAP objectives and discuss with each of 16 MS and				
	presentation:	2 PhD students their research progress.				
	Public:	18 grad students				



# Smart Irrigated Farming to improve Water Use and Fertilizer Efficiency

Dr. Haihua Wang, Dr. Wei Yang, Dr. Han Li, Prof. Minzan Li

Key Laboratory of Modern Precision Agriculture System Integration Research of the Ministry of Education, China Agricultural University, China

Dr. A. Koutoumanos Director, Eummena, Belgium

Prof I Voviatris

Technological Educational Institute of Athens, Dpt. of Informatics, Greece

Prof. N. Sigrimis

Agricultural University of Athens, Opt. of Agricultural Engineering, Founder and CEO of Geomations SA, Greece



International Conference on Intelligent Agriculture (ICIA) Aug. 12-15, 2017, Changchun, Jilin province, China









10-15/8/2017 NERCITA ICIA 2017 in Changchun – Jillin Exhibition Greenhouses and Farm machinery

















16-21 SYAU Shenyang Agricultural University (SYAU)



















## 2017.4 Stay report

# A) Summary of the exchange and research developed

This Visit regards participation to NGO Organization of China Government on the activity to "one belt one road" where we participated with Prof Arapis of AUA-Director of Ecology Lab, for delivering aspects of TEAP for all the invited countries (Africa-India-APEC-Uzbekistahn etc) and we delivered two short speeches. We also visited NERCITA partner experimental Farm and ICT Industry for making more reality contacts for future dissemination of TEAP results. We have also convened in NERCITA with the Leader Acad Dr Zhao for signing MOU of AUA for cooperation in research and training.

#### B) Delegation composition, visited institutions and dates.

Composition of the delegation								
Name Inst		itution	Position					
Arapis Gerassimos	AUA	1	Professor					
Sygrimis Nikolaos	AUA	<b>\</b>	Professor					
Full period of stay								
Name Sta		t Date*	End Date**					
Arapis Gerassimos	20/9	9/2017	26/9/2017					
Sygrimis Nikolaos	20/9	9/2017	26/9/2017					
Destinations and dates								
Name		Visited Institution**		Start Date	End Date***			
Arapis Gerassimos		NERCITA		20/9/2017	26/9/2017			
Sygrimis Nikolaos	NERCITA		20/9/2017	26/9/2017				
	Arapis Gerassimos Sygrimis Nikolaos Full period of stay Name Arapis Gerassimos Sygrimis Nikolaos Destinations and dates Name Arapis Gerassimos	Arapis Gerassimos AUA Sygrimis Nikolaos AUA Full period of stay Name Stan Arapis Gerassimos 20/9 Sygrimis Nikolaos 20/9 Destinations and dates Name Arapis Gerassimos	NameInstitutionArapis GerassimosAUASygrimis NikolaosAUAFull period of stayStart Date*NameStart Date*Arapis Gerassimos20/9/2017Sygrimis Nikolaos20/9/2017Destinations and datesVisited InstitutionArapis GerassimosNERCITA	NameInstitutionPositionArapis GerassimosAUAProfessionSygrimis NikolaosAUAProfessionFull period of stayStart Date*EndArapis Gerassimos20/9/201726/9Sygrimis Nikolaos20/9/201726/9Destinations and datesVisited Institution**NameVisited Institution**Arapis GerassimosNERCITA	NameInstitutionPositionArapis GerassimosAUAProfessorSygrimis NikolaosAUAProfessorFull period of stayStart Date*End Date**Arapis Gerassimos20/9/201726/9/2017Sygrimis Nikolaos20/9/201726/9/2017Destinations and datesVisited Institution**Start DateNameVisited Institution**20/9/2017			

#### c) Technical visits

Institution/Company:	Beijing Farm of NERCITA
Date:	22/9/2017
Location:	North China, Beijing, Haidian district
Person/s of contact:	Du Xiaohong, Gao Miao, E-mail: duxh@nercita.org.cn /gaom@nercita.org.cn
Delegation	Arapis Gerassimos
participants:	Sygrimis Nikolaos
Short Description of the	Technical Visit at Beijing Farm of NERCITA for visiting Greenhouses with Green
Institution/company:	Technologies and insect traps monitored by cameras for early warnings and in
	the afternoon meet in the headquarters of NERCITA to sign an MOU between
	NERCITA and AUA.
Comments about the	A very successful meeting to see the progress of NERCITA on realizing the
visit:	objectives of TEAP in the experimental farm.
	·

## D) Speeches and participation in Workshops/Conferences/Courses

	Title of the Conference:	NGO Beijing International Dialogue on the One Belt One Road.					
Conference	Speaker:	Professor Sygrimis and Prof Gerasimos Arapis (AUA Ecology)					
	Organization:*	NERCITA					
	Date:	21/9/2017					
	Location:	Beijing China					
ere	Person/s of contact:	ADD					
nfe	Short summary of the	Professor Sygrimis and Prof Gerasimos Arapis attended central speeches in the					
ပိ	presentation:	morning and convened in the afternoon with other countries sub-forum for					
		the support of Collaborative innovation where they have given a speech.					
	Public:	NGO representatives from many different countries (England, Australia, Africa					
		a.o. to better enhance the science, technology and academic exchanges and					
		communication among "the Belt and Raod" among countries.					

21/9/2017 NGO Organizations on the One Belt One Road. NERCITA Professor Sygrimis and Prof Gerasimos Arapis (AUA Ecology) NGO Beijing International Dialogue



# 22/9/2017 - Beijing Farm of NERCITA















201	2017.5 Stay report									
A) S	A) Summary of the exchange and research developed									
ADD	ADD									
B) C	B) Delegation composition, visited institutions and dates.									
	Composition of the delegation									
Num.		Name	Ir	nsti	itution	Posi	tion			
1		Christopoulou Vasil	iki A	AUA		AUA	researcher/student	:		
2		Arapis Dimitrios		AUA	1	AUA	researcher			
3		Sygrimis Nikolaos	А	AUA	1	Prof	essor			
	• F	ull period of stay	<b>I</b>			1				
Num.		Name	S	tar	t Date*	End	Date**			
1		Christopoulou Vasilik	i 1	7/1	.0/2017	1/1	1/2017 (11/11/2017)			
2	•	Arapis Dimitrios	1	.7/1	.0/2017	1/1	1/2017			
3		Sygrimis Nikolaos	1	.7/1	.0/2017	1/1	1/2017 (11/11/2017)			
		Destinations and dates					1			
Num.		Name			Visited Institution	n**	Start Date	End Date***		
1		Christopoulou Vasilik	i		CAU		17/10/2017	1/11/2017		
2		Arapis Dimitrios			CAU		17/10/2017	1/11/2017		
3		Sygrimis Nikolaos			CAU		17/10/2017	1/11/2017		
C) T	ecl	hnical visits								
	Cor	mpany:	Shandong-	-QL	JFU/Heze-AMEVA					
	Dat	te:	<mark>9/11/2017</mark>	7						
•	Loc	cation:	North Chir	na,	Shandong Provinc	e, Qui	·u			
•	Per	rson/s of contact:	George Liberidis <george@amevafoods.com></george@amevafoods.com>							
	Del	legation	Sygrimis N	liko	laos					
	_	rticipants:								
		ort Description of the	Private food company using vineyard leaf produce and marketing to outside China and Europe							
-		titution/company:			•	. 0115	II Charalana I ann			
	Cor	mments about the						municate with the TEAP		
	VISI	<b>.</b>		project case study contacted by Symeon Karakatsanis in 2016 and discussed a number of Food Safety and Quality issues as well as their needs in specialized						
						•		as brought the AMEVA		
			•				er of TEAP project.			
	Ins	titutution:	NERCITA			•	, ,			
•	Dat	te:	31/10/17							
	Loc	ration:	North Chir	na,	Beijing, Haidian di	strict				
	Per	rson/s of contact:	Du Xiaoho	ng,	Gao Miao, E-mail:	duxh	@nercita.org.cn/gac	m@nercita.org.cn		
	Del	legation	Dimitrios A	Ara	pis					
-		rticipants:								
		ort Description of the			•	•		a for the Final Report		
•	Institution/company: and contributed to setting for new proposals  Comments about the Arapis has on the overall conducted an internet research on Precision Irrigation									
	visi	mments about the	•					ing GK-CHINA bilateral		
	V131				oint research.	BICS I	carding the upcom	III OK CITIINA DIIALETAI		
D) S	рес	eches and particip				erend	ces/Courses			
S		Title of the Course:	CAUA te	esti	ng and programm	ing				
Cours	_	Speaker:	Sygrimis		J :	- 5				
ŏ	<u> </u>	Organization:*	CAU							

	Date:	18/10/2017 20/10/2017
	Location:	North China, Beijing, Haidian district
	Person/s of contact:	LI li, lily@cau.edu.cn
	Short summary of the	Professor Sygrimis and the team members perform equipment debugging, EC,
	presentation:	pH and master control overall operation. Sygrimis introduced his Assistants Vasiliki Christopoulou and Arapis Dimitrios how to cooperate with CAU students and spent the time until 31-10-2017 in the ground floor Laboratory where the assembly of Electronics and CAUA machines takes place so to familiarize for future research exchanges that the CAU students need to understand how EU students get their job training and how the Greek students can understand the Practice of China Farms.
	Public:	5 MS students and 1 PhD
	Title of the Course:	Nutrient needs and nutrition solution preparation in NFT Lettuce hydroppnics
Course	Speaker:	Sygrimis
	Organization:*	CAU
	Date:	25/10/2017 28/10/2017
	Location:	North China, Beijing, Haidian district
	Person/s of contact:	LI li, lily@cau.edu.cn
	Short summary of the	Professor Sygrimis guided the grad student Lin Pei, student of prof Zhang
	presentation:	Miao, ragarding the NFT experimental setup and the use of ISFET chemical nutrient sensors and how to improve the accuracy and durability of the
		sensors to be used in hydroponic closed systems and combine with CAUA_MACQU technology to implement smart Greenhouse.
	Public:	Lin Pei, student of prof Zhang Miao
	Title of the Course:	CAUA testing and programming
Course	Speaker:	Sygrimis
	Organization:*	CAU
	Date:	29-31-17 31-31-18
	Location:	North China, Beijing, Haidian district
	Person/s of contact:	LI li, lily@cau.edu.cn
	Short summary of the	Professor Sygrimis and members of the research group have discussed the
	presentation:	testing approaches as well as how to produce Demo systems for better
	presentation.	reliability and how to train the User on the technology. Professor Sygrimis was
		working in the laboratory, working with the team members in the laboratory
		of the ground floor for temperature and humidity sensors, and explained how
		to use the oscilloscope to measure the pcbs functionality and prepare a tester
		box for the on-site testing.
	Public:	members of the research group
Course	Title of the Course:	Final TEAP meeting and future planning
	Speaker:	Sygrimis
	Organization:*	CAU
	Date:	10/11/2017 10/11/2017
	Location:	North China, Beijing, Haidian district
	Person/s of contact:	LI li, lily@cau.edu.cn
	Short summary of the	Professor Sygrimis, Prof Wang and members of the research group are in the
	presentation:	office to discuss the next development situation and discuss the recent work
		situation in Demos and what will be the Students specific topics and articles to
		write. Discussed how to do the Heavy REPORTING and how could the TEAP
		after final date of 31-10-2017 can possibly help further exchanges until new
		bilateral GK-CHINA projects or EU-SC2 may start by end of 2018.
	Public:	All team members

31/10/17 – Arapis NERCITA

25/10/2017 28/10/2017 Nutrient needs and nutrition solution preparation in NFT Lettuce hydroponics











