

Industry Association Role in Agricultural Extension

Jeff Au 区越富

- 1. Lead of Safe Use Committee, Crop Life China
- 2. Head of Research & Development, Syngenta China
- **3.** Vice lead of Paraquat Stewardship Work Group, China Crop Protection Industry Association

Roundtable Consultation on Agricultural Extension 15th Mar 2012, Beijing

Agenda 内容

- 1. Introduction of national association 协会简介
- 2. Farmer training model 农民培训模式
- 3. Successful cases 成功案例
- 4. On going improvement 不断完善
- 5. Benefits to all parties 对各方的好处
- 6. The way forward 展望



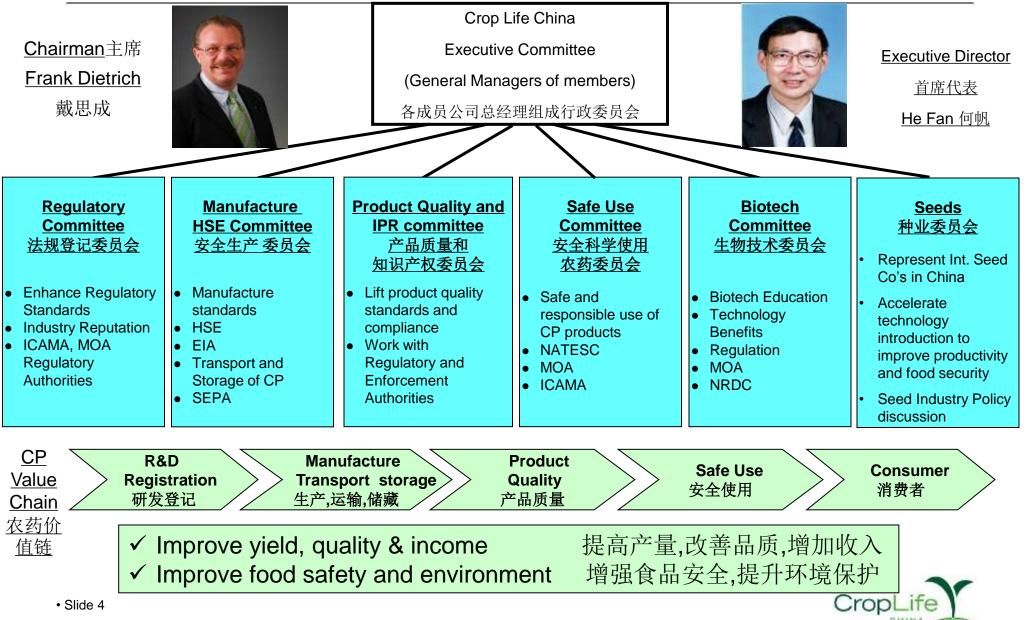
1A. There are 3 Crop Protection Industry Associations in China

- 1. China Crop Protection Industry Association (CCPIA):
 - A domestic national association under administration by ex-staff of Ministry of Chemical Industry. It's business focus is much more on the manufacture and is also acting as a technical expert for Ministry of Industry and Information Technology (MIIT) to evaluate pesticide production permit and implementation of industry policy.
- 2. China Association of Pesticide Development and Application (CAPDA): A newly formed national association being led by ex-minister from Agriculture and headed by ex-ICAMA (pesticide regulatory) and the executive members are mainly from ICAMA network. It's business focus is on pesticide development & application
- 3. Crop Life China (CLC):

It is a national association under Crop Life International network which is formed by the research and development based Multi-National company of Crop Protection industry.



1B. Crop Life China Structure 植保(中国)协会是植保行业的民间协会



1C. Key partner & player in farmer training program主要参加者





2A. Farmer safe use pesticide training model

农民安全科学使用农药的培训模式

- 1. Focus on one county at township level 以县为单元,以镇为重点
- 2. National, provincial and county level extension authority support 得到中央,省和县的有关部门支持
- **3. Commitment from member company** 协会成员公司的积极参于
- 4. Target trainee: influential farmer, extension worker & retailer 以科技示范农民,基层推广员和农药零售商为培训对象
- 5. Grower's economic benefit first than social & environment benefits 以农民经济利益为主导,辅以社会和环保利益
- 6. Third party assessment 由第三方农业大学评估
- 7. Customize promotional material for trainee 地方化的农民资料和手册,实用的物料
- 8. Training quality Master trainer has been trained 高培训质量-培训师经过培训,内容互动,应用性高



2B.Training Content 培训内容





3A. Successful Case: Guanghan, Sichuan project in 2006 Activities:

- Training local doctors, nurses (100) 医生培训
- Train-the-trainer (30)培训师培训
- Mass training (2,800 farmers, retailers, extension officers) 大规模的集中示范户培训
- 10,000 posters, 2,800 manuals & 52,000 technical materials distributed宣传资料派发
- Audit: Baseline survey and Post-training survey 第三方效果评估





3A. Successful case: Guanghan, Sichuan project in 2006

- Audit by Sichuan Agricultural University 四川农大评估: 1,917 and 1,867 trainees surveyed pre- and post-training
- Key result Knowledge and behaviour changes in 意识和行为改变:
 - Pesticide purchasing购买
 - Reading product labels看标签
 - Measuring pesticides 量度用量
 - Use of personal protective equipment (PPE)保护衣物
 - Empty container and waste disposal空保装处理
 - Secure pesticide storage 安全储存

Key result – Cost savings for farmers 农民用药成本降低



3A. Successful case: Guanghan, Sichuan project in 2006 Cost savings over 2005 跟 2 0 0 5 年比较,节省成本

- Using recommended application technology, 61% of trained farmers reduced pesticide bills by 17% 6 1 % 受训农民节省 1 7 %
- Savings by crop不同作物的节省

Tomatoes 19%	Chillies 22%	Cucumbers 17%	
Lettuce 13%	Celery 11%	Eggplant 19%	

- How: In line with IPM principles 原因
 - tailor-made spray programmes *合理喷施*
 - using the most appropriate & effective products 合适农药
 - applied at correct dose, right time 合适剂量和时间

saved the farmers money, and improved their income.



3A. Case study: Guanghan, Sichuan project in 2006

- Impact & Benefits Summary主要成效
 - Responsible use knowledge (GAP) transferred & applied 农民得到知识及活学活用
 - More responsible handling of "products usage cycle" observed 科学合理使用农药
 - Reduced input costs increased farmer incomes 降低用药成本
 - % of produce exceeding MRL limits remains low 农残合格率保持很高
 - Sichuan government agreed to fund continued training in 2007 得到地方政府的认可和继续投入
 - CLA/CLC program transferred to Guangdong Province in 2007 模式可重复

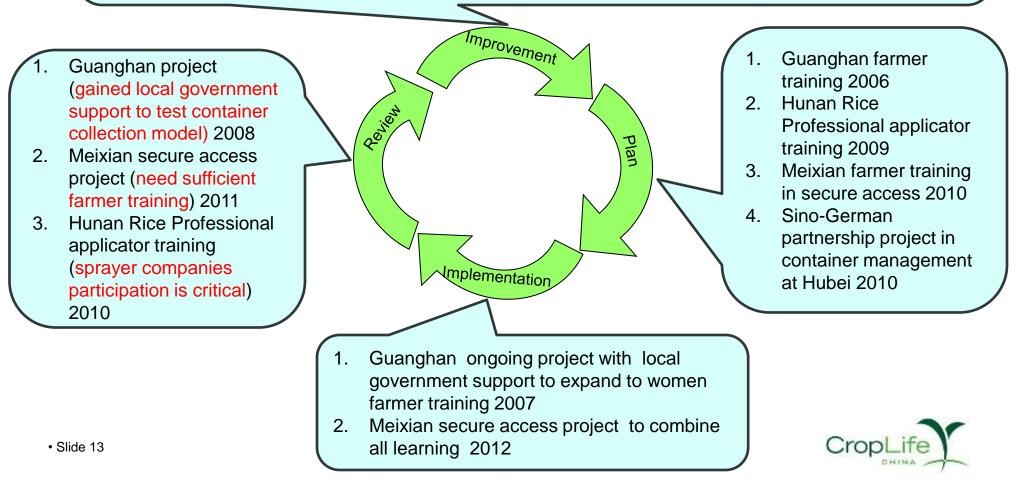


3A. Guanghan City government invested another RMB200K for on going Female Farmer training until 2007
 因为项目的成功,地方政府再投入20万在2007年培训农女民工

安平村

4. Ongoing improvement of model 不断完善培训模式

- 1. Zengcheng project (localize media & farmer hand book) 2007
- 2. Shipping project (local government support & triple rinse of container & its collection scheme) 2008
- 3. Sino-German container management in Hubei (clear model & role between government & national association) 2011
- 4. Wheat professional applicator training in Henan (same spraying equipment company from rice project to join with) 2011



4A. On going improvement – ShiPing project in 2008

Safe & responsible use training model enhancement in Shiping, Yunnan to address the container management issue to protect the Pearl river origin environment with strong **local government commitment**

云南石屏县进一步完善模式,在安全用药培训活动,加入空包装处理,保护 珠江水原头



4B. On going improvement: Guanghan project in 2008

Container management in Guanghan with cross government functions support to identify a pragmatic model in container collection which is adoptable in the small holder farming communities.

四川广汉多政府部门参加的空包装处理,寻找有效的方法改变小农户的行为





后



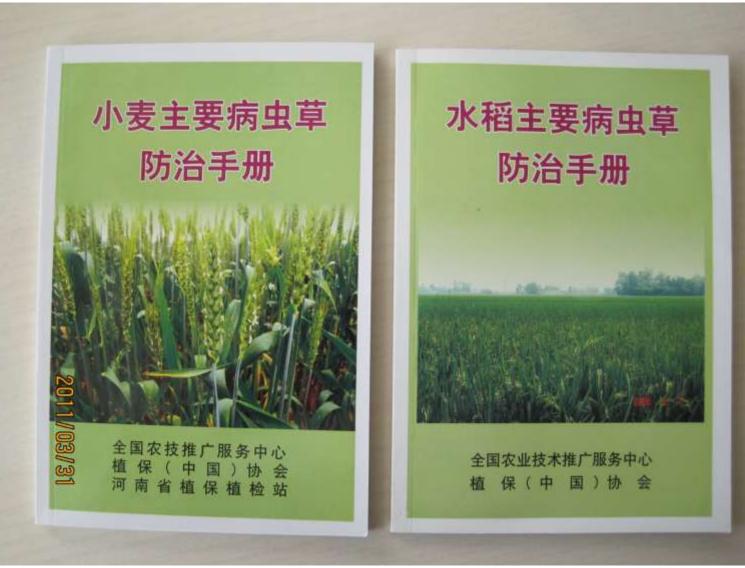
4<u>C. On going improvement: Professional spray team</u> training project in 2009-2012

- ▶ 活动 activities:
 - Kick off ceremony local government support & commitment
 - Master trainer training training skill & knowledge on machinery
 - Spray applicator training (2009-3000; 2010 2000; 2011 750)
 - Customized training material to all professional applicator
 - Responsible use poster distribution
 - Project audit and review during the program
 - Third party assessment





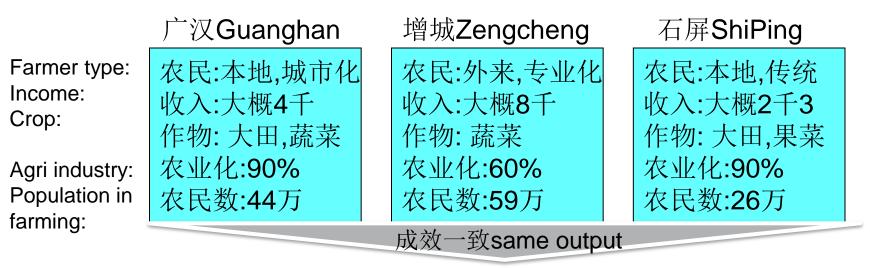
4D. Customized training materials





<u>5A. Benefits to grower, consumer & society</u> 对农民,消费者和社会的贡献成效显著

Workable training model under different rural condition 培训模式适合在不同的三农背景



- 1. 农残合格率高 Safe Produce residue within limit
- 2. 农药投入降低 Lower Pesticide input
- 3. 个人卫生保护提高 Self hygiene awareness
- 4. 因农药引起事故减少 Less adverse incident
- 5. 环保意识提高 Higer Env. protection awareness Crop





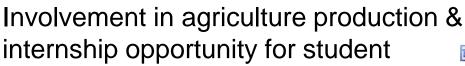
Slide 18

5B. Benefits to other parties 各参加者的效益



Supporting extension authority in producing safe food

为农民生产服务,生产无公害农产品,保护环境



参与农业生产,作学术的专题研究

W

Microsoft Office d97 – 2003 Docum W

d97 - 2003 Docum

Service to members and enhancing association reputation & image

为成员公司服务,提高协会的权威性和在行业 的知名度

Building brand at grower level & CSR image 通过协会和推广部门合作,直接面向农民,提高 公司在农民和行业知名度



5C. For government reference : Hubei project 2010-2012

Sino-German government project in verifying the empty container management model which is workable in China for government scale up

Supporting Effort	Industry National Association	Pesticide regulation	Admin body like EPA
County government	PPS/Agri Extension	Agri enforcement/ AIC	Responsible administrative dept/agent
Target stakeholder	Farmer	Retailer	EPA , Chengguan (City service dept)
Key activity	 farmer training – voluntary Promote triple rinse & protect environment 	 Retail shop equips with empty container collection facility 	Government dept regular collection from collection point & for appropriate disposal
Addressing issue	convert hazardous to non- hazardous waste	Proper disposal	Proper waste treatment
Current project	CLC & industry	Hubei ICA & county	GIZ



6. Way Forward

- Syngenta takes leadership position in CCPIA to set up the Paraquat Stewardship Alliance work group to promote and advocacy of product stewardship and corporate social responsibility to the domestic crop protection industry
- 2. In the Stewardship Alliance work group, setting up the fund to conduct following stewardship program:
 - Medical stewardship: set up medical consultant team and 24 hours x 7 days hotline service
 - 2. Rural doctor training (targeting at >10,000 rural doctors in 2012)
 - 3. Build up website for communication of responsible use
 - 4. Train the trainer in conducting large scale farmer training (more than 1000 training events will be conducted by members in 2012)
 - 5. Materials for training program: poster, manual, PPE.....
- 3. More government investment and stakeholder engagement......



Jeff Au

Lead of Safe Use Committee CropLife China

Head of Regulatory and Technical Syngenta (China) Investment Co Ltd 21/F, Xin Mei Union Square, 999 Pudong South Road, Pudong District, Shanghai, P R China

Phone: +86 21 3865 1820; mobile: +86 139 0162 9892 E-mail: jeff.au@syngenta.com

法规技术部总监 先正达(中国)投资公司 上海浦东南路999号 新梅联合广场21楼

安全用药委员会主席

植保(中国)协会

区越富

Thanks

谢谢

