*"丝绸之路经济带"沿线国家植物检疫合作战略研讨会*, 2019.5 IPPC High-level Symposium on Cooperation of the Phytosanitary Measures among the Chinese Initiative "the Belt and Road" Countries, May. 2019

## 广西南宁合一生物防治技术有限公司 Guangxi Nanning Heyi Biological Control, LTD

师翱翔,技术总监 Ian Shi, Technical Adviser



### 我们致力于 WE ARE COMMITTED TO **生物防治BIOLOGICAL CONTROL**...

我们做什么? WHAT WE DO?

创建者 FOUNDERS 成绩 ACHIEVEMENTS 地点 LOCATION

我们生产天敌昆虫 并提供全套技术服 务 We produce natural enemies for pest control and provide technical service to support growers 创建者拥有30多 年生物防治和管理 经验 The founders have a combined 30+ years of Biological Control and Management experience 我们获得国家级和 地市级天敌昆虫产 业化生产和大面积 生物防治应用奖项 We have been awarded with National and Municipal prizes for large scale application of

**Bio-Control** 

公司2010年成立, 位于中国广西南宁 市 Found in 2010, our company is located in Nanning, Guangxi, China





创建者宋一林,师翱翔 业务经理和昆虫学家 Founders Yilin Song, Ian Shi Businessman and entomologist



2010









今天的合一生防/Company today





2011

螟黄赤眼蜂发布用于防治甘蔗螟虫 Introduction of Trichogramma chilonis against sugarcane borers



2012-2018放蜂面积/release acreage





#### 大面积释放赤眼蜂防治甘蔗螟虫 Large scale inundative release of *T. chilonis* against sugarcane borers





2014



开始生产和销售胡瓜钝绥螨防治柑橘红蜘蛛 Introduction of *Neoseiulus cucumeris* against citrus red mite



2015

开始生产和应用稻螟赤眼蜂防治稻纵卷叶螟和二化螟 Start production and application of T. japonicum for rice insect pests, Cnaphalocrocis medina and Chilo suppressalis





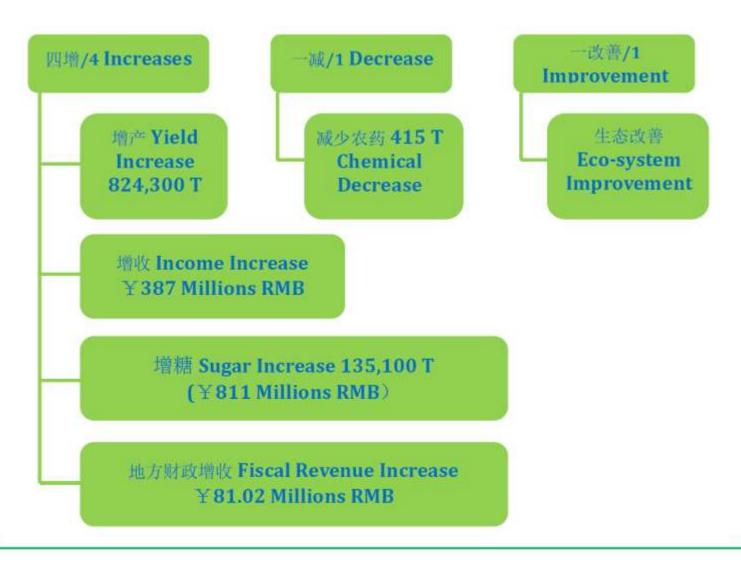




米蛾自动化生产线投入运行 Launch of automatic production line of *Corcyra cephalonica* 



#### 成绩 Achievements





# 2012-2018年放蜂防治甘蔗螟虫效果/2012-2018 Efficacy of releasing wasps to control sugarcane borers

螟害节率(%) Bored internode (%)		甘蔗产量(吨/ 公顷) Sugarcane yield (t/h)		增产 Yield increa se	增收 Incom e increas	甘蔗糖分(%) Sugar content (%)		增糖 百分 点 Percen	增糖 Sugar increa se (t/h)
放蜂区 Releases area	对照区 Non- released area	放蜂区 Releases area	对照区 Non- released area	( <b>t/h</b> )	e (¥/h)	放蜂区 Releases area	对照区 Non- released area	t point increa se in sugar	
9.81	18.84	85.8	69	16.8	7578	15	14.26	0.74	2.55



#### 培训Training



2012-2018 年举办甘 蔗和水稻 放蜂治螟 培训班, 培训人员 超过2.5万 人,

Training were provided to over 25,000 people for wasps release against sugarcane and rice pests from 2012 to 2018



#### 草地贪夜蛾/Fall armyworm (Spodoptera frugiperda)

已在中国出现/They are here in China.

螟黄赤眼蜂并非有效天敌/T. chilonis is not an effective natural enemy.

夜蛾黑卵蜂Telenomus remus Nixon?





#### 发展前景和目标Future perspective and objectives

- 不断地创新并提升生物防治产业的发展/Innovation to lead the industry
- 与所有利益相关者合作并成长/Collaboration with all stakeholders to thrive
- 向所有利益相关者宣传和提倡生物防治/Promotion of biological control to all stakeholders



#### 鸣谢Acknowledgments

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## 感谢您的关注! Thank you for your interest!

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