“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

HYSF

我们致力于 WE ARE COMMITTED TO

生物防治BIOLOGICAL CONTROL ...

我们做什么？ WHAT WE DO?

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 FOUNDERS

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

成绩 ACHIEVEMENTS

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

地点 LOCATION

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

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合一生防的历史和里程碑 Heyi's History and Milestones

2010

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

创建初期/Start

今天的合一生防/Company today

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合一生防的历史和里程碑 Heyi's History and Milestones

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

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合一生防的历史和里程碑 Heyi's History and Milestones

2012

大面积释放赤眼蜂防治甘蔗螟虫

Large scale inundative release of *T. chilonis* against sugarcane borers

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合一生防的历史和里程碑 Heyi's History and Milestones

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

合一生防的历史和里程碑 Heyi's History and Milestones

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*

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合一生防的历史和里程碑 Heyi's History and Milestones

2017

米蛾自动化生产线投入运行

Launch of automatic production line of *Corcyra cephalonica*

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成绩 Achievements

- 四增/4 Increases
  - 增产 Yield Increase 824,300 T
  - 增收 Income Increase ￥387 Millions RMB
  - 增糖 Sugar Increase 135,100 T (￥811 Millions RMB)
  - 地方财政增收 Fiscal Revenue Increase ￥81.02 Millions RMB
- 一减/1 Decrease
  - 减少农药 415 T Chemical Decrease
- 一改善/1 Improvement
  - 生态改善 Eco-system Improvement

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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 increase（t/h）	增收 Income increase (￥/h)	甘蔗糖分（%）Sugar content (%)		增糖百分点 Percent point increase in sugar	增糖 Sugar increase (t/h)
放蜂区 Releases area	对照区 Non-released area	放蜂区 Releases area	对照区 Non-released area			放蜂区 Releases area	对照区 Non-released area		
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

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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

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Guangxi Admin. Office of Sugar Industry
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感谢您的关注！
Thank you for your interest!

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