



Electric Aircraft

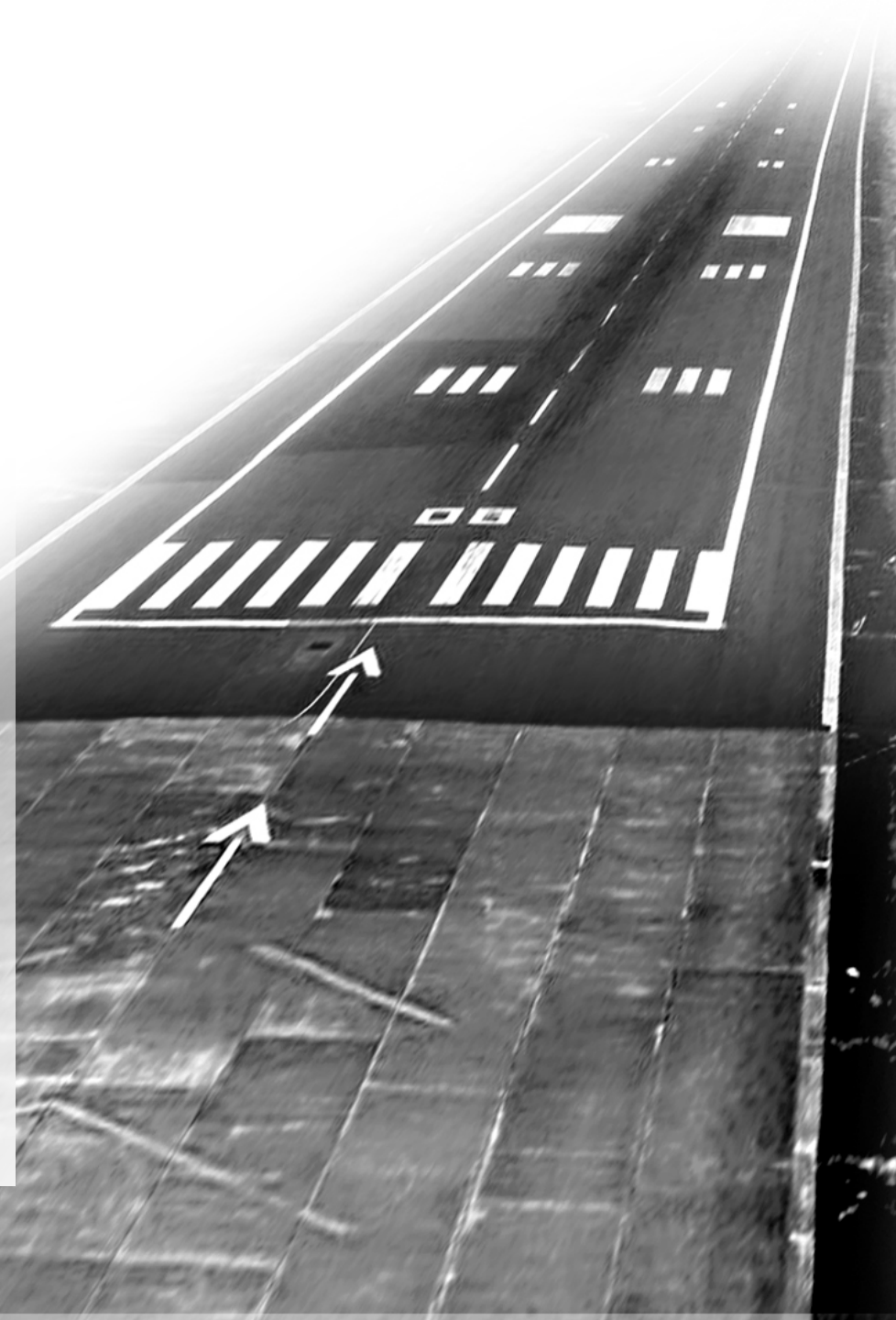
Is the future already here ?

Presenter. Danny Wu



About Pipistrel

- Company founded in 1995
- Manufacturing based in Slovenia & Italy
- Global presence with offices in China and India
- Supplier to many govt's for training, OPV & UAV aircraft
- Supplier of electric propulsion systems to NASA
- World leader in electric propulsion systems and technology
- REAL Electric aircraft with almost 100 already sold and flying around the world



Our Electric Aircraft Projects



Taurus Electro
world's first two seat
electric aircraft



Taurus G4
world's first four seat
electric aircraft



Taurus Electro G2
second generation
of the Taurus Electro



Alpha Electro
the new
electric trainer



HY4 - H2fly/DLR
first 4-seat aircraft powered
by hydrogen fuel cells



EU Project Hypstair
200kW serial hybrid electric
powertrain for general aviation



Pipistrel Electric Aircraft Achievements

2016
Bill Piper Award

2012
PADA Award

2012
Collier Trophy
Nominee

2011
NASA Greenflight
challenge winner

2011
Lindberg Electric
Aircraft Prize



Demonstrated Performance



- Designed for circuit training
- Typical circuit operations up to 60 min + reserve
(For LSA aircraft the reserve is 30 minutes)
- Typical cruise is 45minutes @18kW and 75 kts IAS
- First electric aircraft where the charging time is less than the flying time!



Pipistrel ALPHA Electro



- **Development started 2014**
- **Deliveries started May 2016**
- **More than 150 aircraft on order with 65 delivered by end September 2017**
- **4 deliveries per month for rest of 2017**
- **2018: Expanded capacity to meet production of 100 Electric aircrafts per year!**



Recharging



Certification Issues



- Electric aircraft are already accepted (and flying) with many CAA's around the world
- Power supplies at airports and electric 'infrastructure' needs to catch up
- Electric aircraft can be legally registered and fly NOW either GA or RA-Aus registration in the LSA category



A Way Forward



- Introduce pilot ratings for Electric Aircraft, at the moment there is no RA-Aus or PPL-E license
- Introduce a way pilots can transition from being trained with Electric Aircraft then convert to gas powered aircraft
- Electric Aircraft are here now, they are not science fiction
- Electric aircraft are ideal for training with real operating costs including battery replacement of under \$35/hr AUD



Panthera: Max. Speed of over 400km/h!



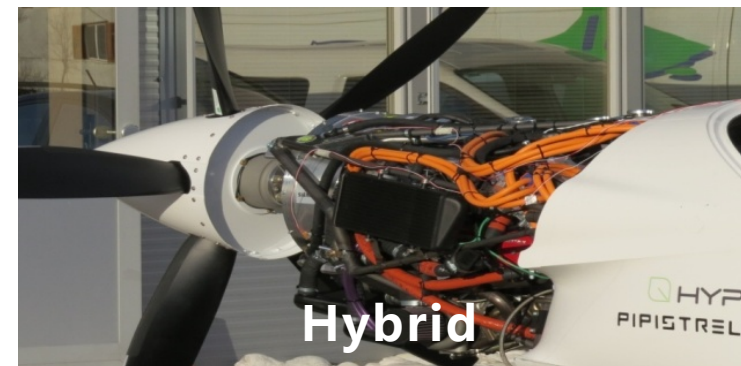
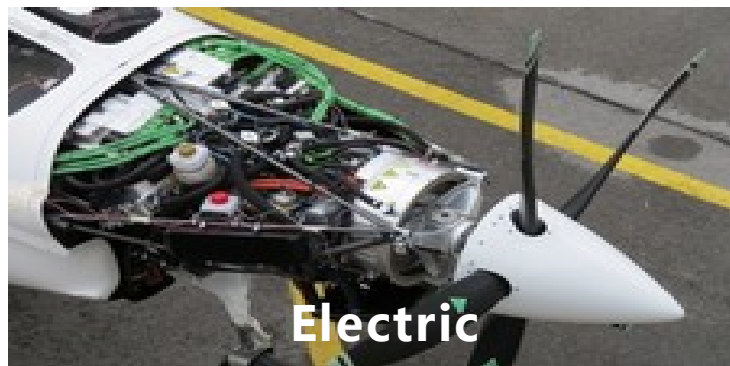
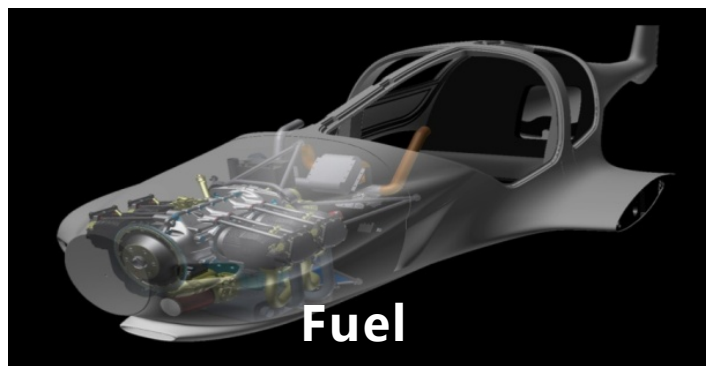
飞虎通航俱乐部

飞虎通航俱乐部

Panthera: Taking personal flying to the next level



Panthera: Three Options for customers





**PIPISTREL
In
CHINA**



Manufacturing in China



Hybrid



Government Support

凤凰财经

凤凰财经 > 财经滚动新闻 > 正文

李克强会见斯洛文尼亚总理采拉尔

2016年11月05日 11:03

来源：中国新闻网

0人参与

0评论



当地时间11月4日下午，中国国务院总理李克强在里加下榻饭店会见斯洛文尼亚总理采拉尔。中新社记者 刘震 摄

First GA and aircraft
Manufacturing project to be
included as China – Central
Eastern European Cooperations
(16+1) Priority Project.

Largest Cooperation between
China and Slovenia.

Signing Ceremony in front of 17 Head of



中宇通航集团
SINO GENERAL AVIATION



5th of Nov, 2016

Project Signing Ceremony
in Latvia, attended by both
Chinese and Slovenian
Prime Ministers

2 Listing of Priority Project in “16+1” CCEC

附件：中国 - 中东欧合作文件清单

中华人民共和国商务部欧洲司

2016-11-08

14:33

第五次中国 - 中东欧国家领导人会晤期间签署的合作文件清单

- 一、《匈塞铁路（塞尔维亚段）商务合同》
- 二、《匈塞铁路（塞尔维亚段）融资备忘录》
- 三、《匈塞铁路（匈牙利段）建设合同》
- 四、《匈塞铁路（匈牙利段）融资备忘录》
- 五、《中华人民共和国政府和塞尔维亚共和国政府互免持普通护照人员签证的协定》
- 六、《中华人民共和国政府与波斯尼亚和黑塞哥维那部长会议关于互免持外交、公务和公务普通护照人员签证的协定》
- 七、《中华人民共和国政府和马其顿共和国政府关于互免持外交、公务（官员）护照人员签证的协定》
- 八、《中华人民共和国政府与捷克共和国政府在“一带一路”倡议框架下的双边合作规划》
- 九、《中华人民共和国国家发展和改革委员会与拉脱维亚共和国交通部关于开展港口和临港产业园区合作的谅解备忘录》
- 十、《中华人民共和国国家发展和改革委员会与立陶宛交通和通信部关于开展港口和临港产业园区合作的谅解备忘录》
- 十一、《中华人民共和国国家发展和改革委员会与保加利亚交通、信息技术和通信部关于开展港口和临港产业园区合作的谅解备忘录》
- 十二、《中华人民共和国国家发展和改革委员会与克罗地亚共和国经济、中小企业和手工业部关于开展港口和临港产业园区合作的谅解备忘录》
- 十三、《中华人民共和国国家发展和改革委员会与匈牙利外交与对外经济部关于开展产能合作的框架协议》

中宇通航旅游集团有限公司与斯洛文尼亚蝙蝠飞机制造厂关于在华合资建厂的协议

十四、《中华人民共和国商务部和阿尔巴尼亚共和国外交部关于人力资源开发合作谅解备忘录》

十五、《中华人民共和国海关总署与斯洛伐克共和国财税总局关于推进实施丝绸之路经济带合作倡议的谅解备忘录》

十六、《中宇通航旅游集团有限公司与斯洛文尼亚蝙蝠飞机制造厂关于在华合资建厂的协议》

十七、《世福资本管理有限公司、爱沙尼亚Richmond Capital公司、中国铁建国际集团有限公司关于爱沙尼亚北海岸物流园项目的合作备忘录》

十八、《罗马尼亚政府和华为技术有限公司合作意向书》

十九、《中国四川省中医药管理局与黑山尼克希奇市政府关于中草药种植及加工的合作备忘录》

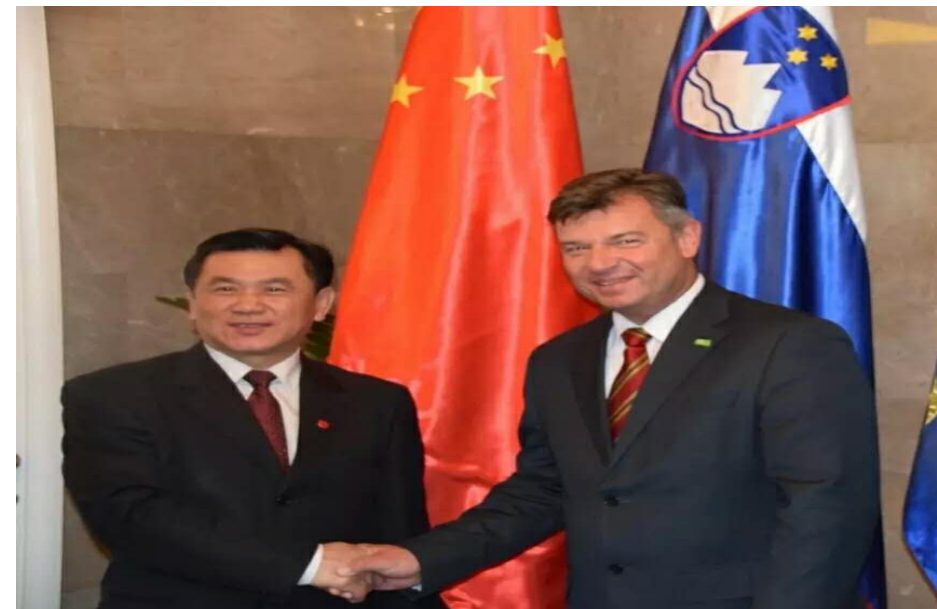
二十、《塞尔维亚E763高速公路二期项目贷款协议》

二十一、《中国电力建设股份有限公司与塞尔维亚建设、交通和基础建设部以及塞尔维亚国家公路公司关于建设贝尔格莱德环城路（奥斯图兹尼卡-布班波多克标段）项目的合作协议书》

二十二、《波黑图兹拉水电站项目融资合作条件清单协议》

Administrator of CAAC, visited Slovenia in April 2016

- ✓ **First Foreign Visit since taking office**
- ✓ **First EU Member State to sign 《 Design Approval, Export Airworthiness Certification, Post Design Activities and Technical Assistance Interface 》 Bilateral Technical Arrangement with China**
- ✓ **First time for Administrator of CAAC to issue three VTC at the same time**



H.E Feng Zhenglin visit to PIPISTREL and issue of 3





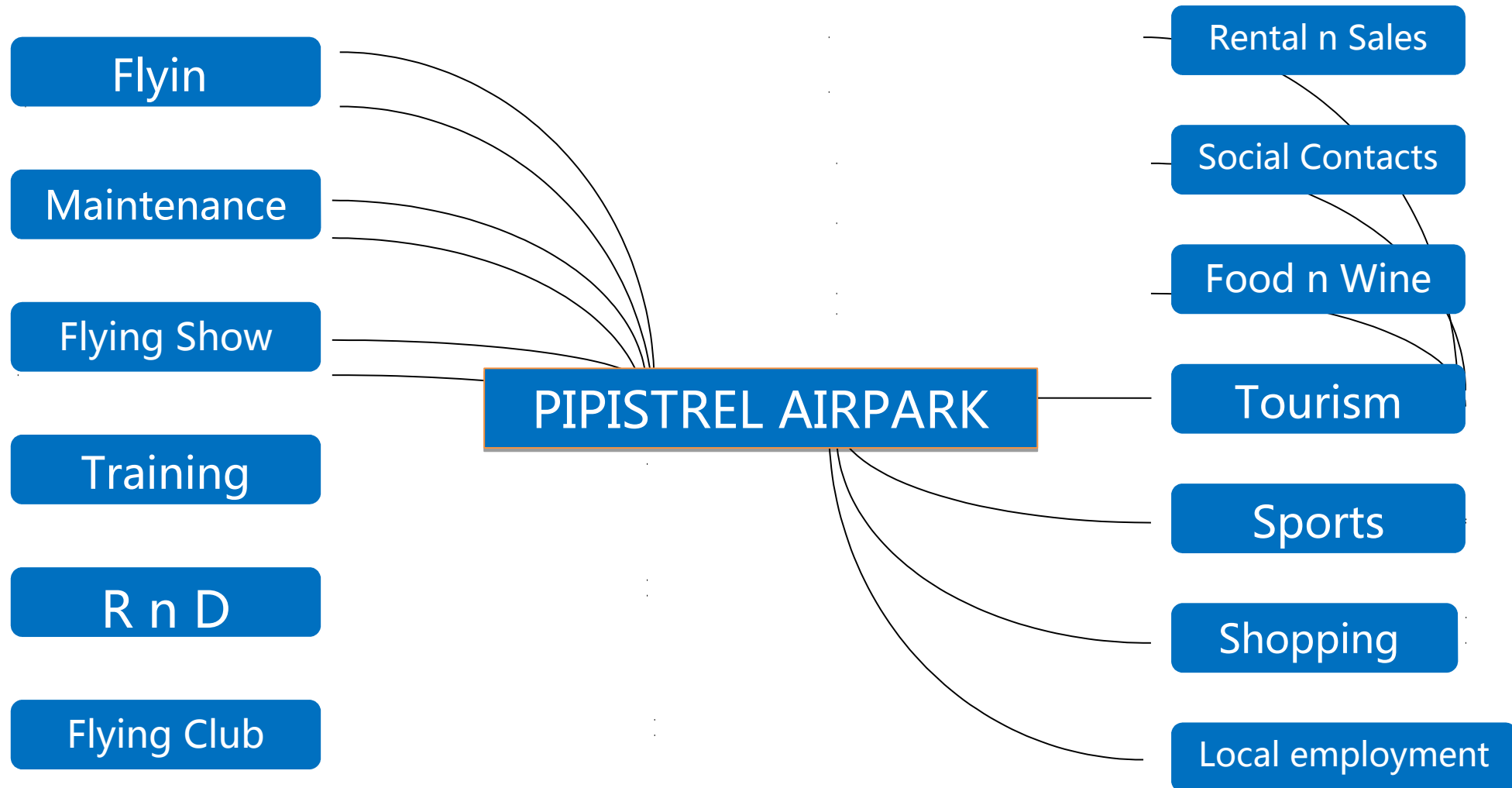
PIPISTREL AIRPARK

1. G.A Airport (FBO)
2. Manufacturing
3. Training
4. Maintenance
5. Fly-in residents

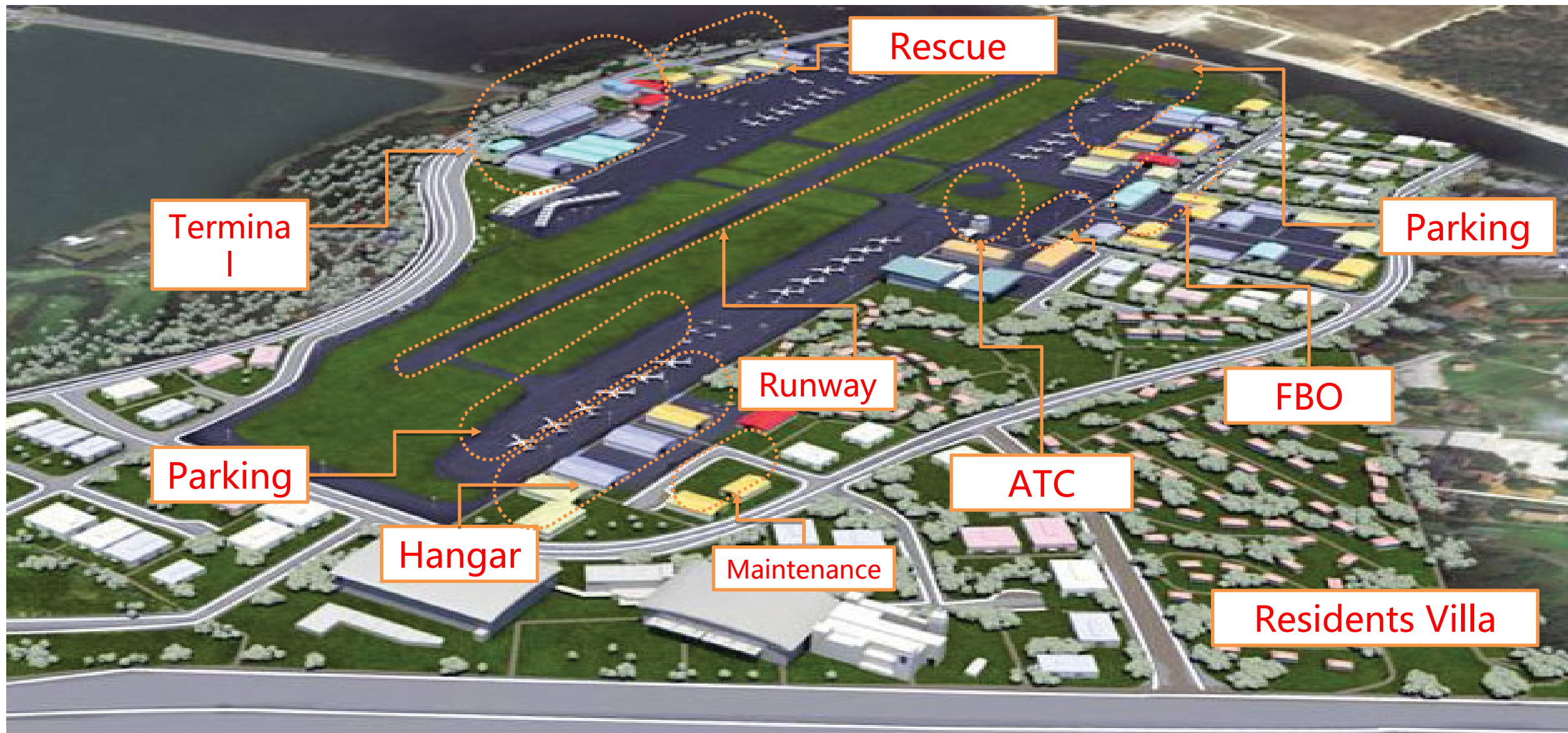
J u r o n g , N a n j i n g



Flyin Model for China



Basic Functions of PIPISTREL Airpark



Airpark Functions: Lifestyle



Airpark Functions



Hangars



Production



Fly Fair



Museum



FBO



Exhibition



Shopping



Lake



Theatre



Cinema



Health



School



SPA



Camping



Hotel



案例

Thank You