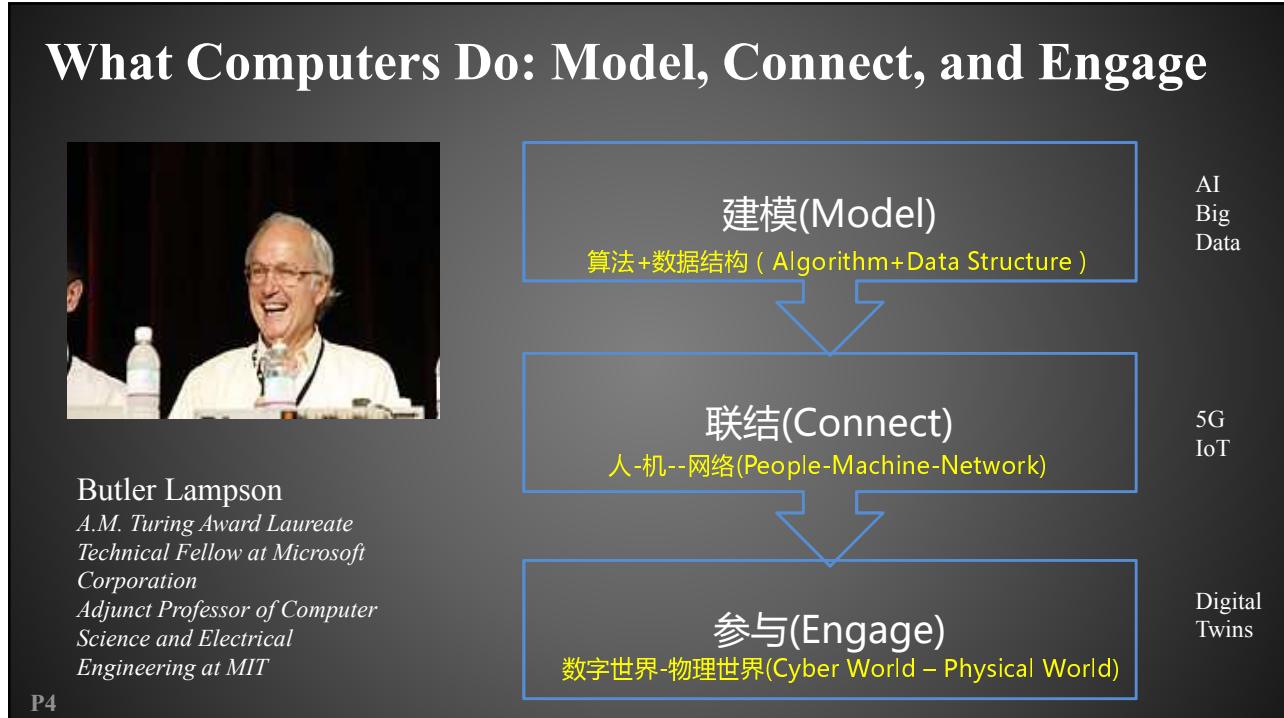
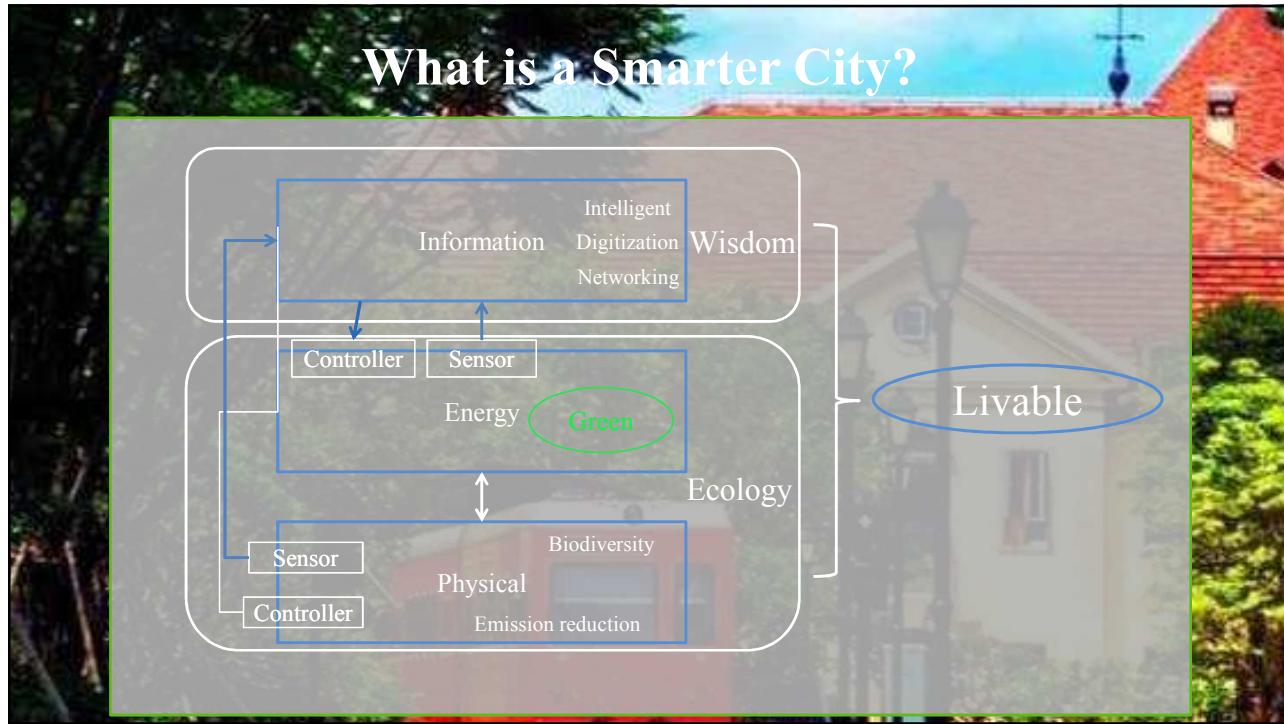




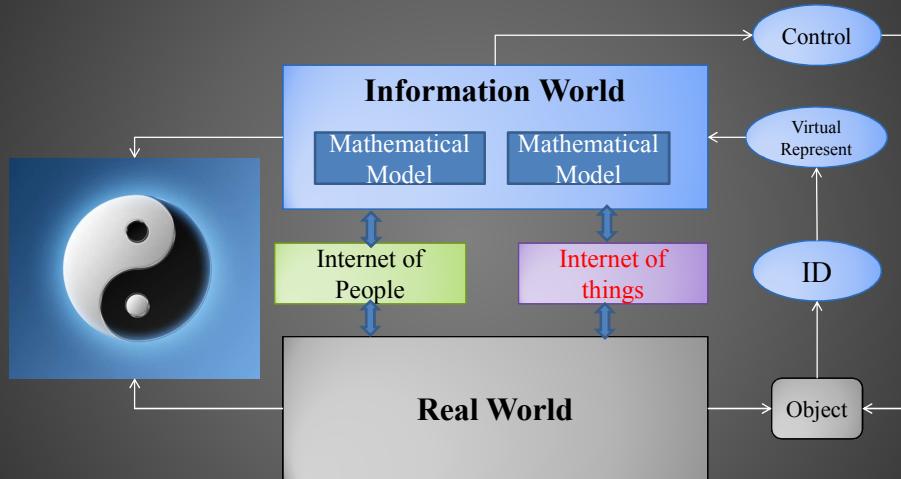
Engineering Perspective of Geo-Spatial Intelligence in Smart City

Huang Qian
19 November 2018

时空智慧 升维赋能



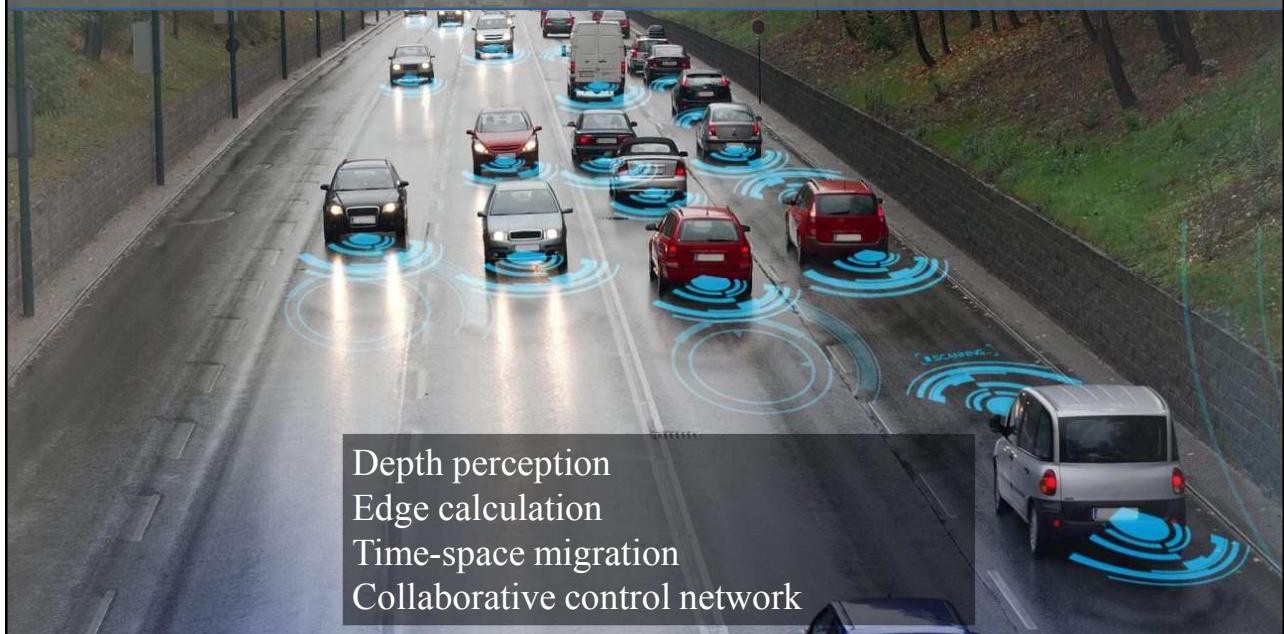
Connection, more and faster

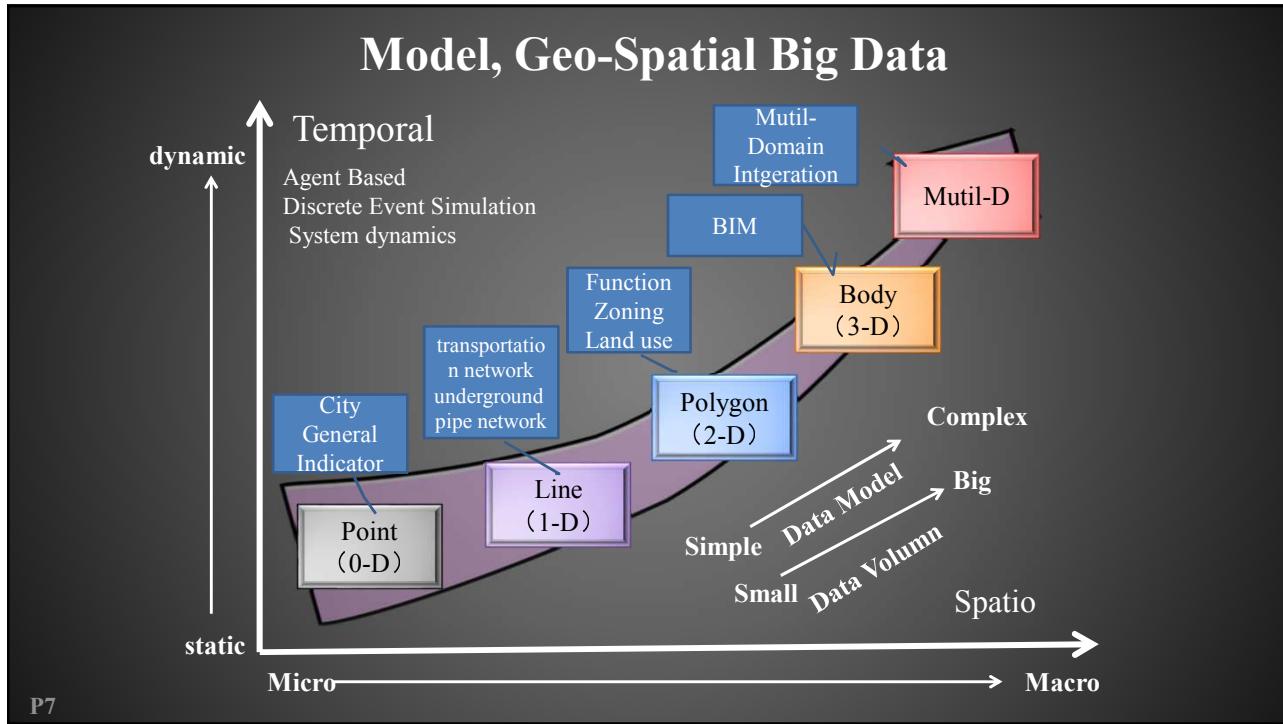


2025年我国物联网连接数将达到53.8亿，其中5G物联网连接数达到39.3亿。 —
—《2018年中国5G产业与应用发展白皮书》赛迪

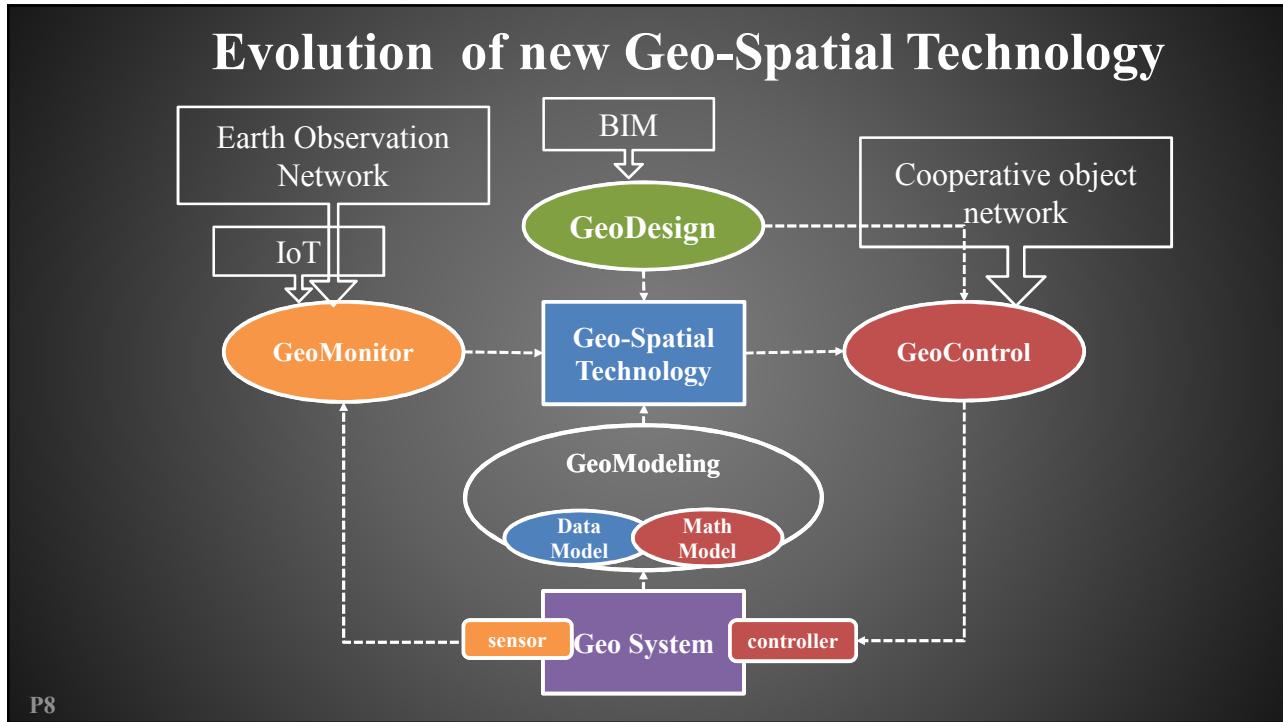
P5

Engage, interactive and automatic

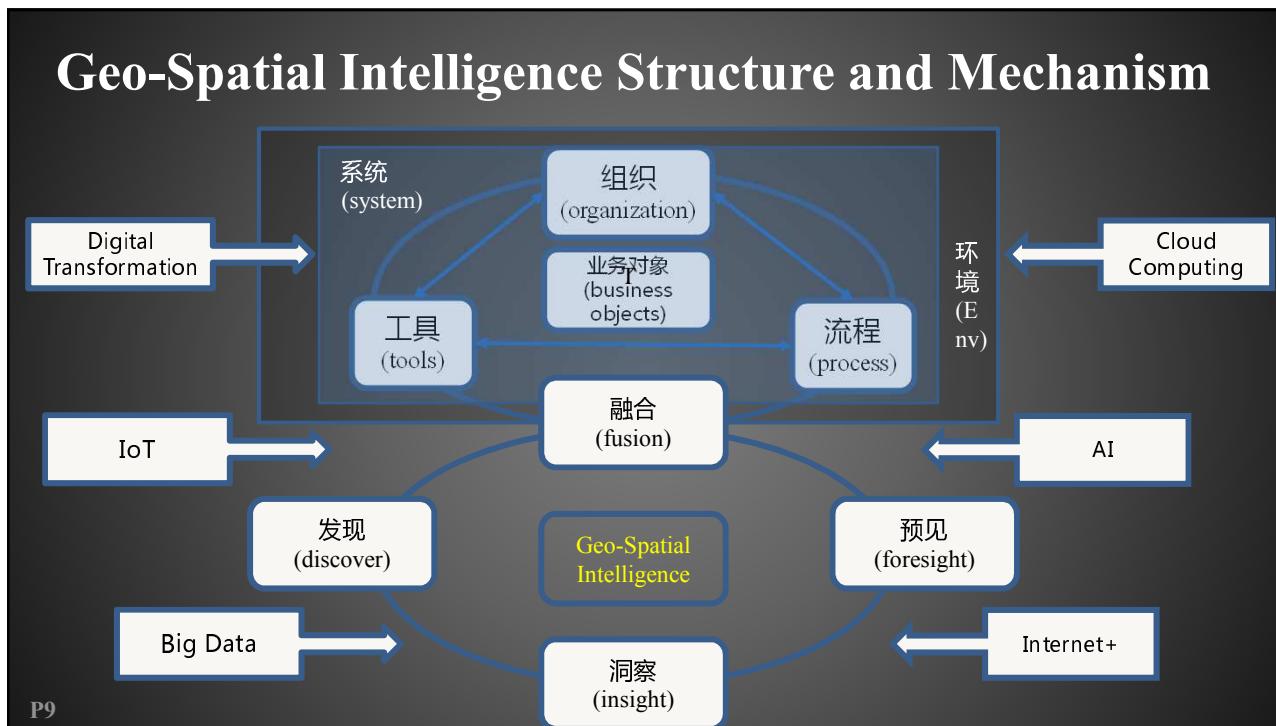


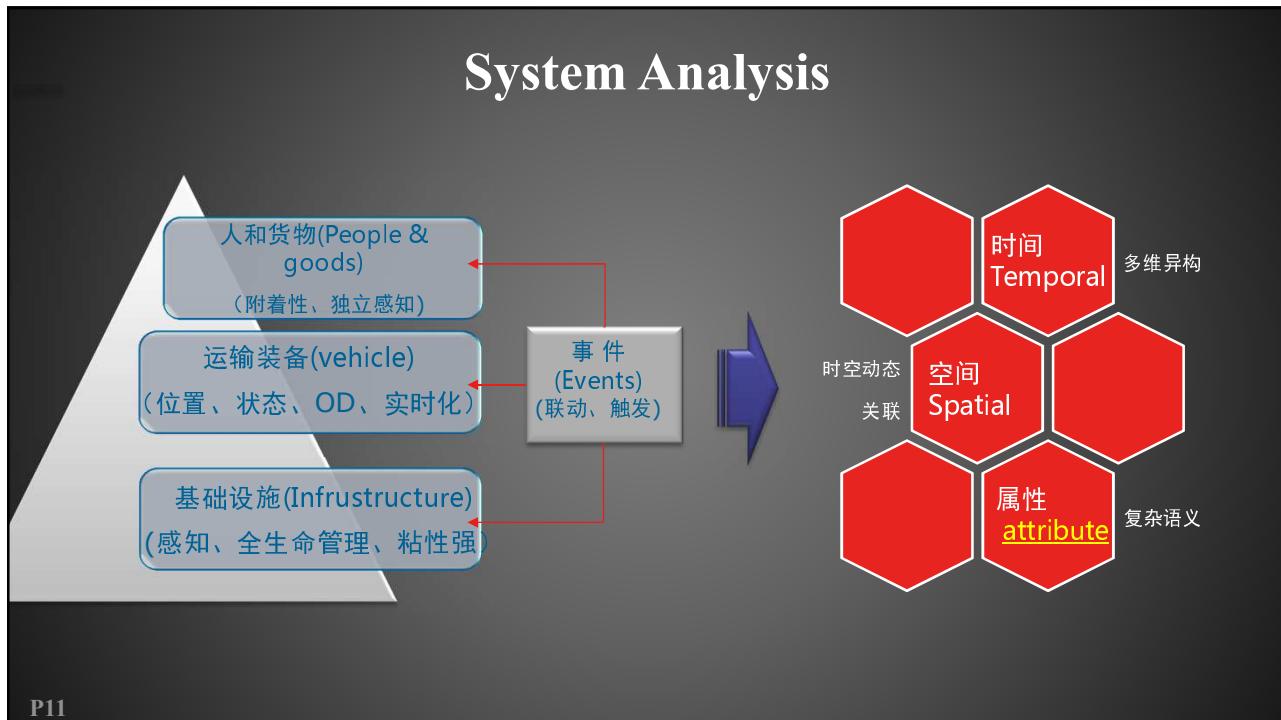


P7

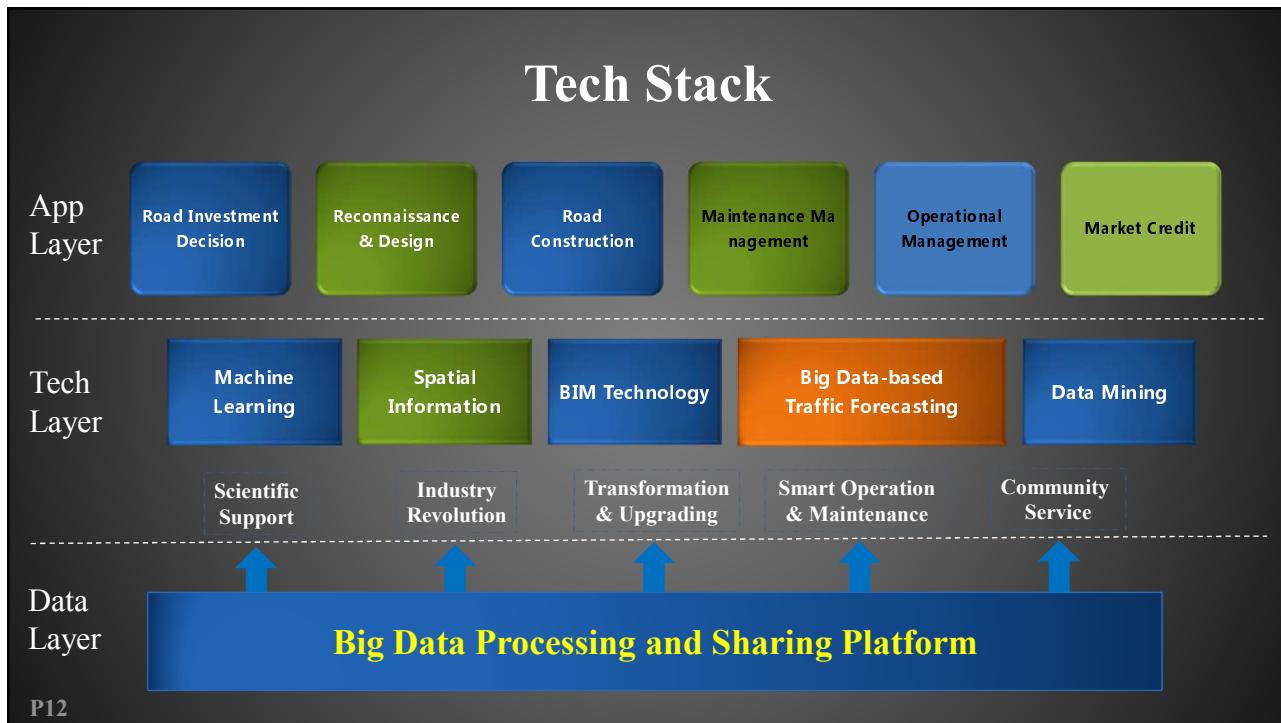


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P11



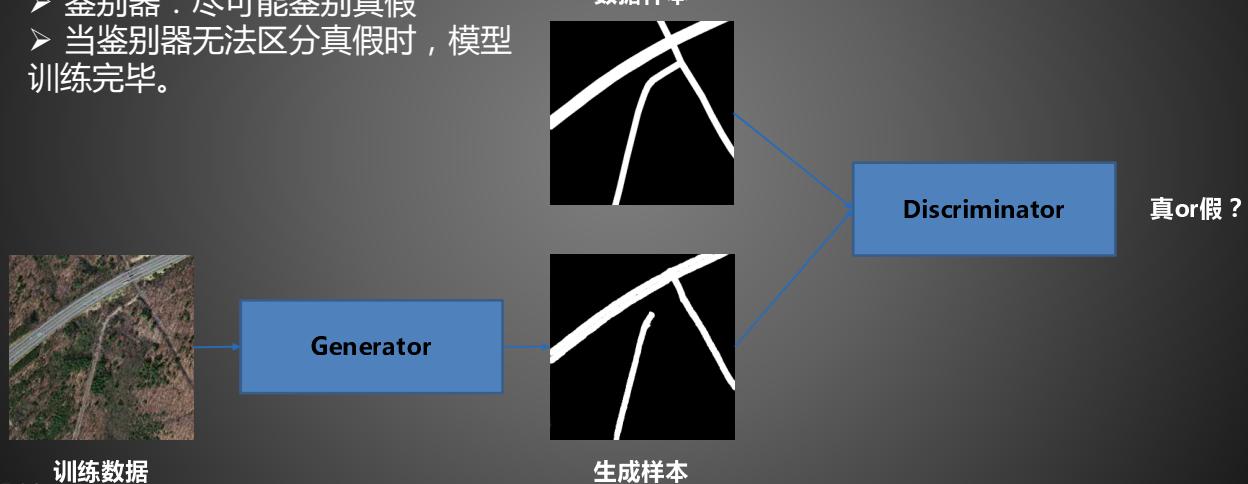
P12

Case 1, Remote Sensing Recognition

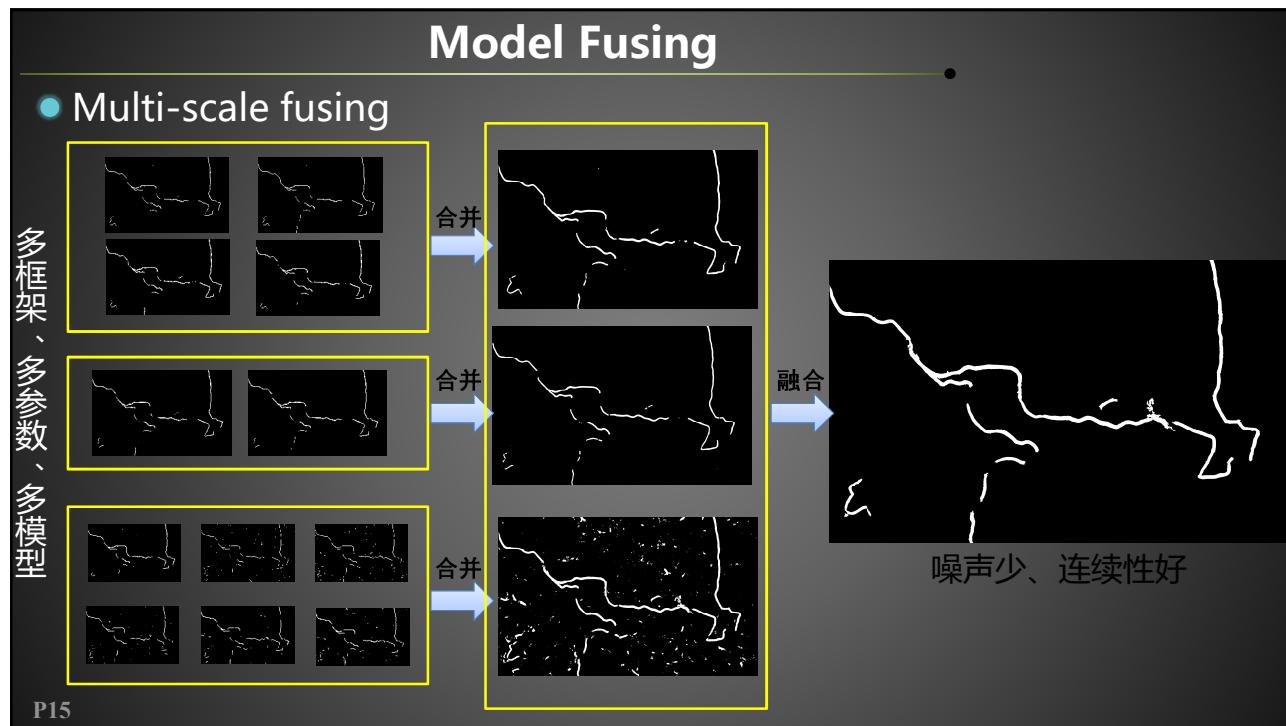
P13

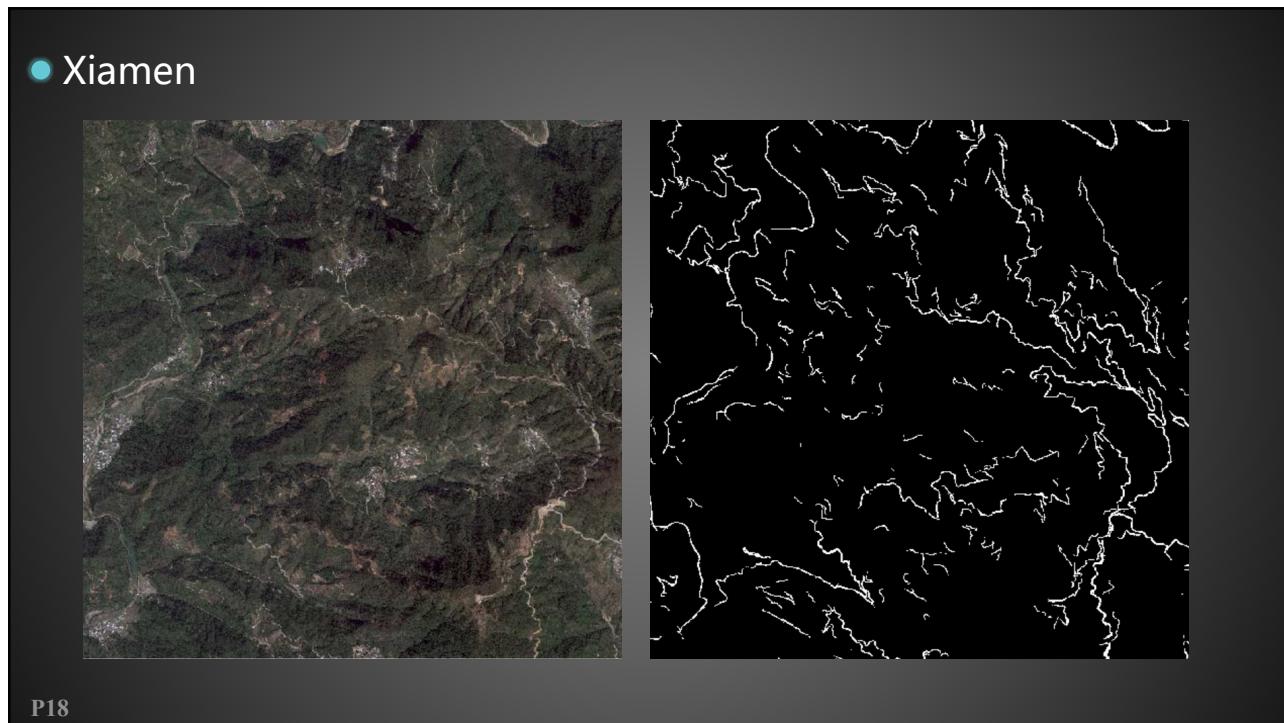
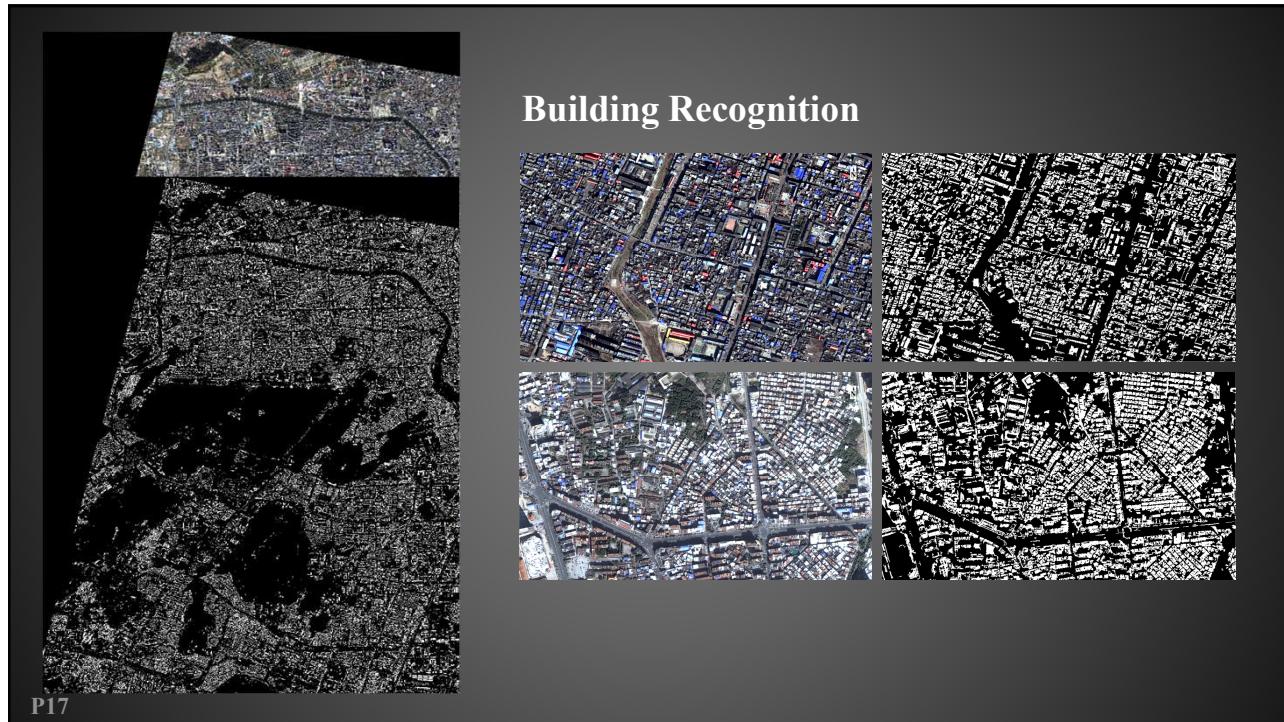
Algorithm, Generative Adversarial Networks

- 生成器：生成以假乱真的图像
- 鉴别器：尽可能鉴别真假
- 当鉴别器无法区分真假时，模型训练完毕。



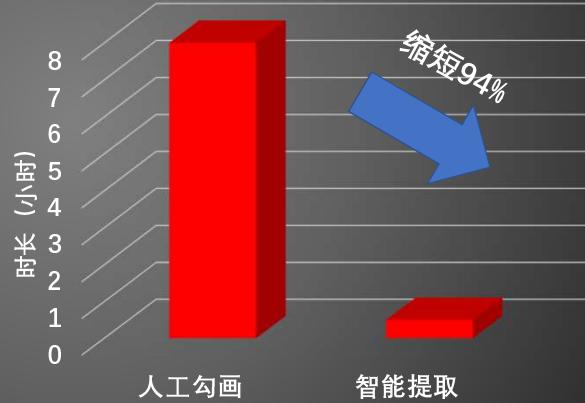
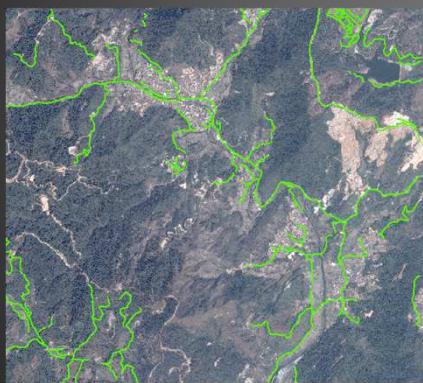
P14





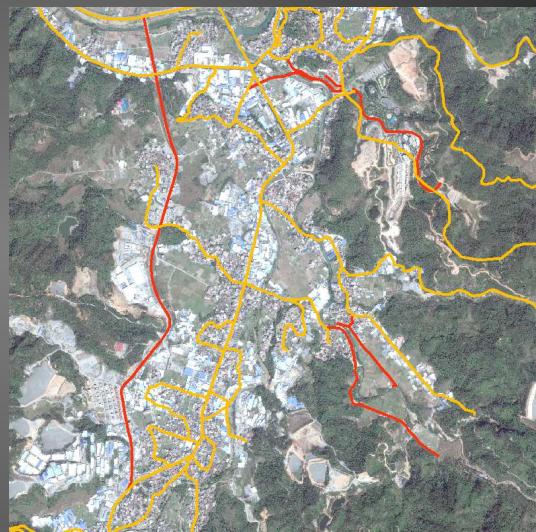
● Faster

以25平方公里的区域为例，人工勾画路网需8小时/人，利用机器学习自动提取，结合半自动化的后处理，仅需半小时/人



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● Better



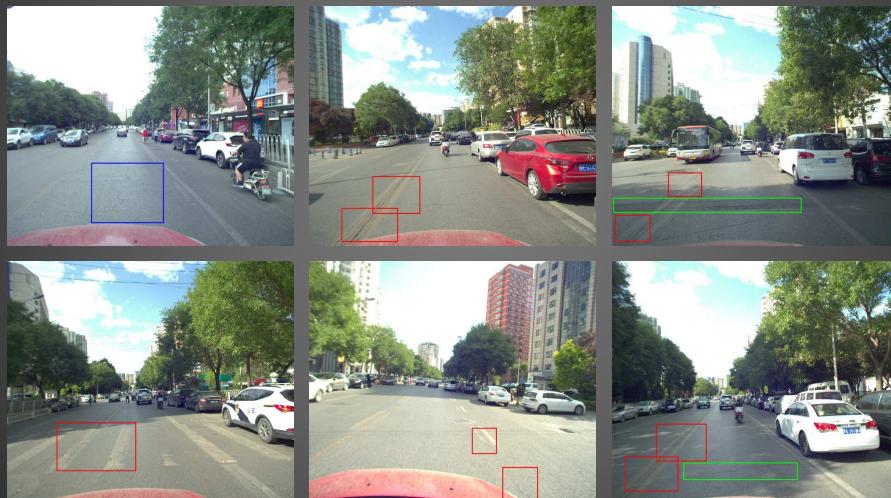
P20

Algorithm in Smart Maintenance

养护

养护计划

养护资金



P21

Traffic Volume Forecast

公路投资决策



综合交通智能联动



高速收费标准制定



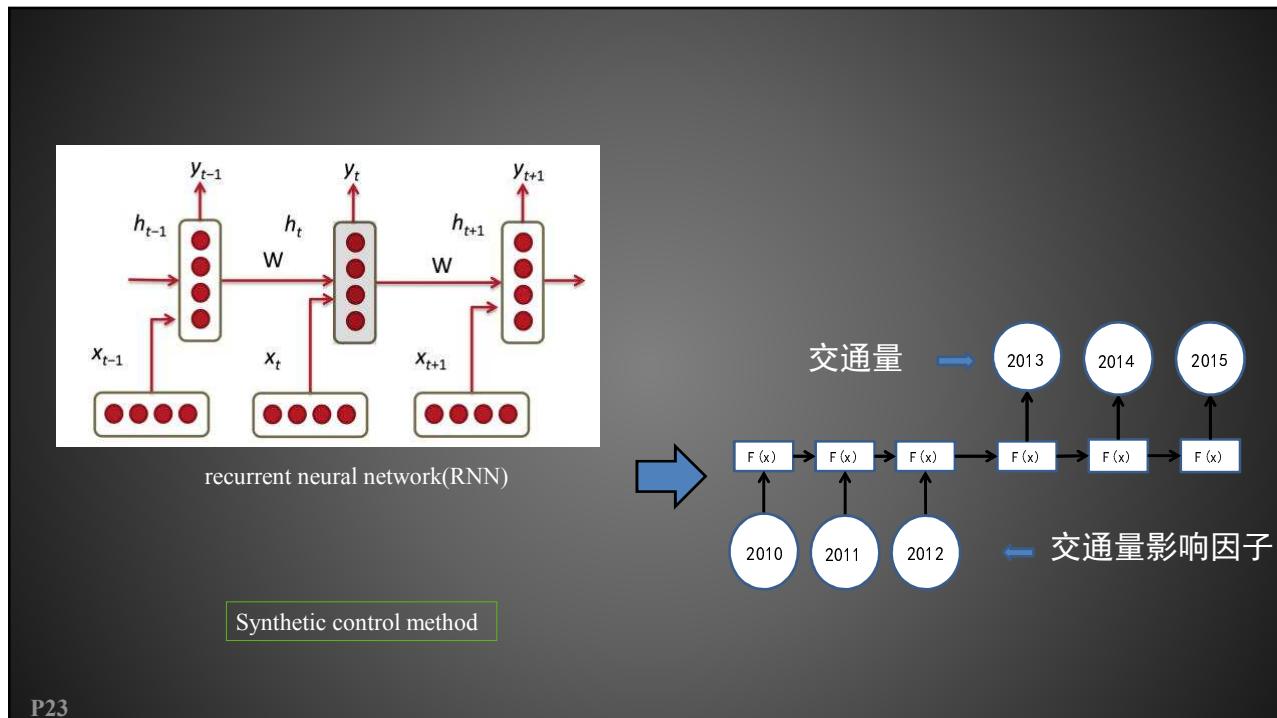
节假日交通量预警



路网规划决策

交通安全态势
监测管理

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P23

Traffic Volume Forecast Platform



山西省全路网交通量预测



福建省拟建高速公路交通量预测

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