



Microsoft
Research

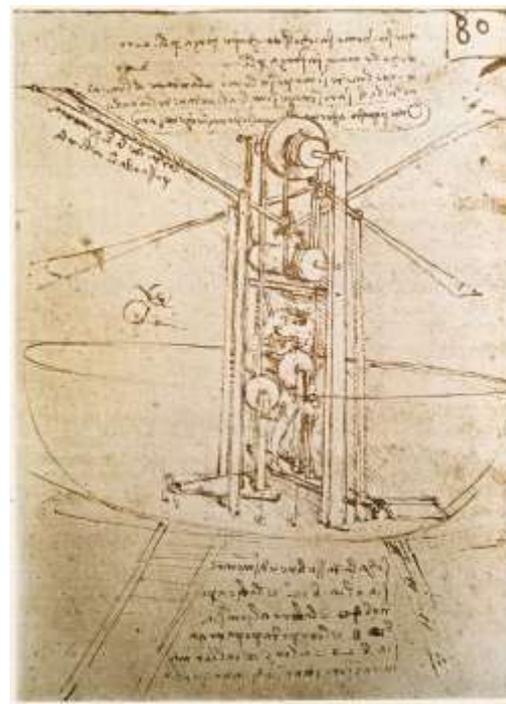
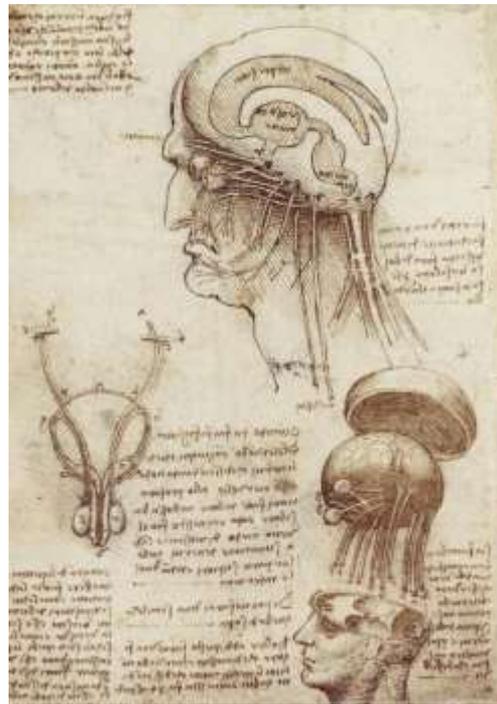


Interdisciplinarity 科际效应

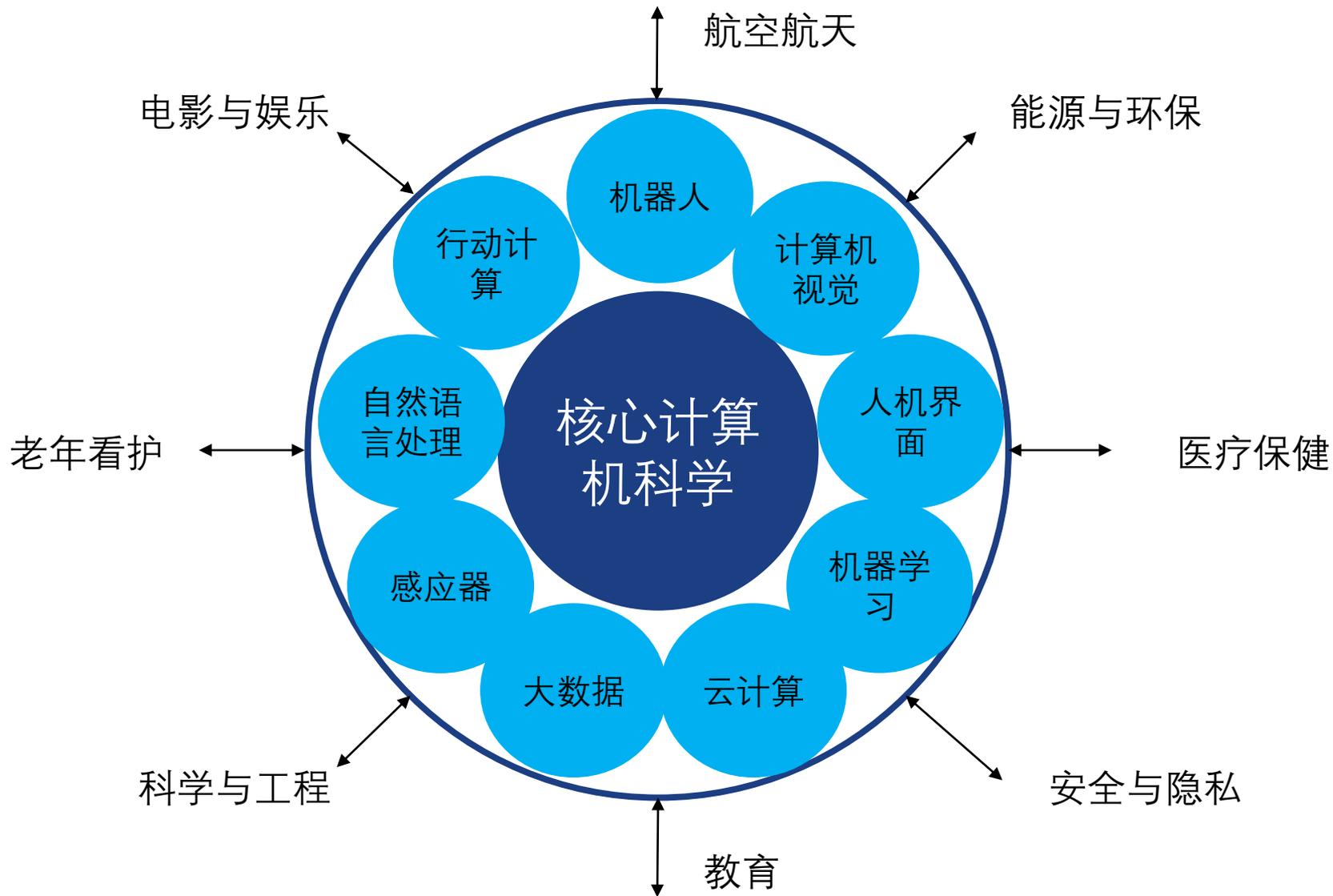
Dr. Tim Pan, Senior Director, MSRA Outreach
微软亚洲研究院副院长 潘天佑博士



意大利 佛罗伦萨



达芬奇 (1452-1519),
画家, 雕刻家, 解剖
学家, 工程师, 建筑
师, 音乐家, 发明家,
数学家, 地理学家,
植物学家和作家。





语言障碍

– 从巴别塔到联合国

Demo
Speech Translation



Demo
Speech Translation

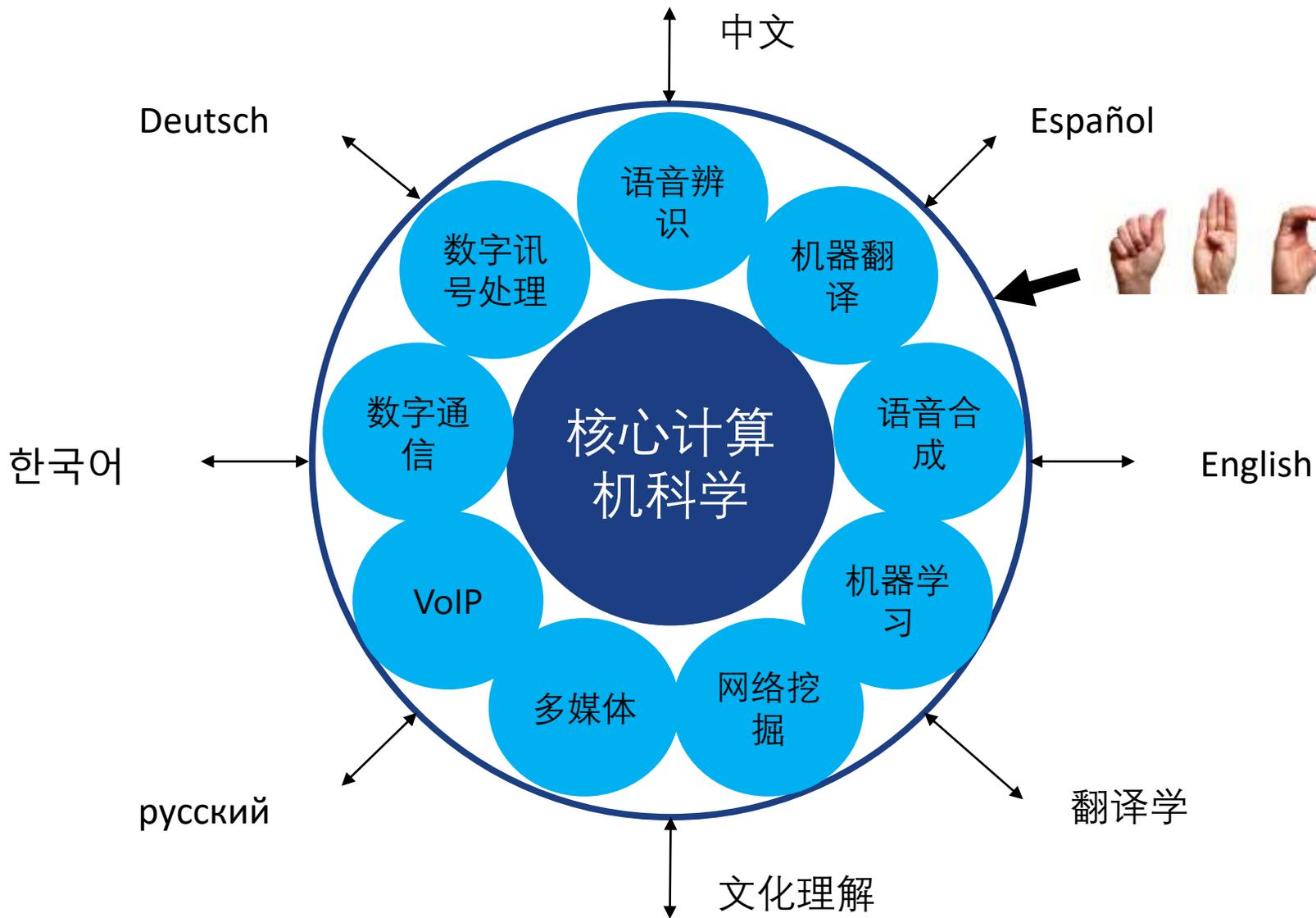


计算, 自然语言处理
自然语言处理

2012年在天津的21CCC大会上, Dr. Rick Rashid 这么说。。。



Microsoft Translator



Microsoft Research Connections



基于Kinect技术的手语翻译项目

微软亚洲研究院，中科院计算所，北京联合大学特殊教育学院 携手进行



Star Trek IV: The Voyage Home (1986)





Past 30 years, Chinese urban population has risen 500 m.

By 2030, 1 billion people, or 70% Chinese are in cities.

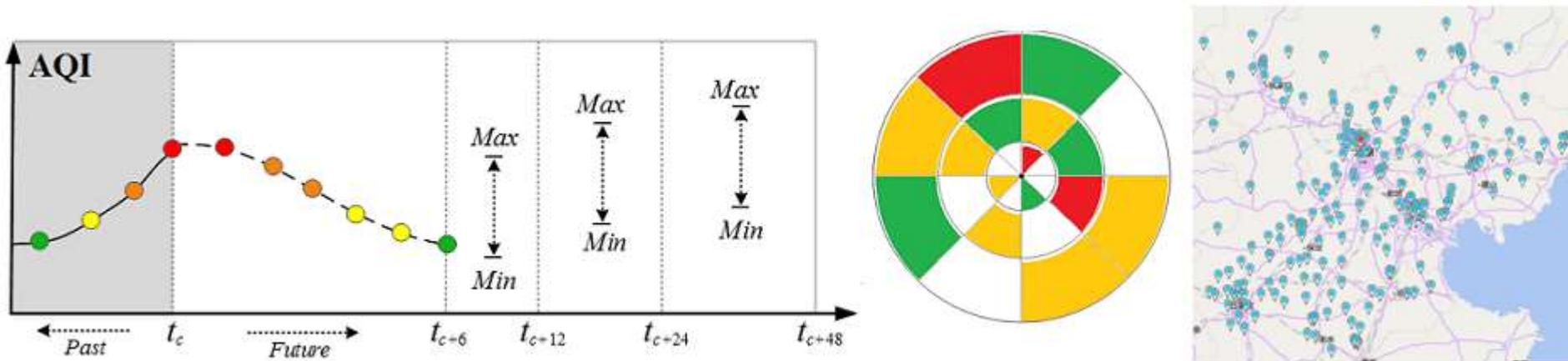


都市问题 - 从北京到香港

A. Real-Time Air Quality Inference



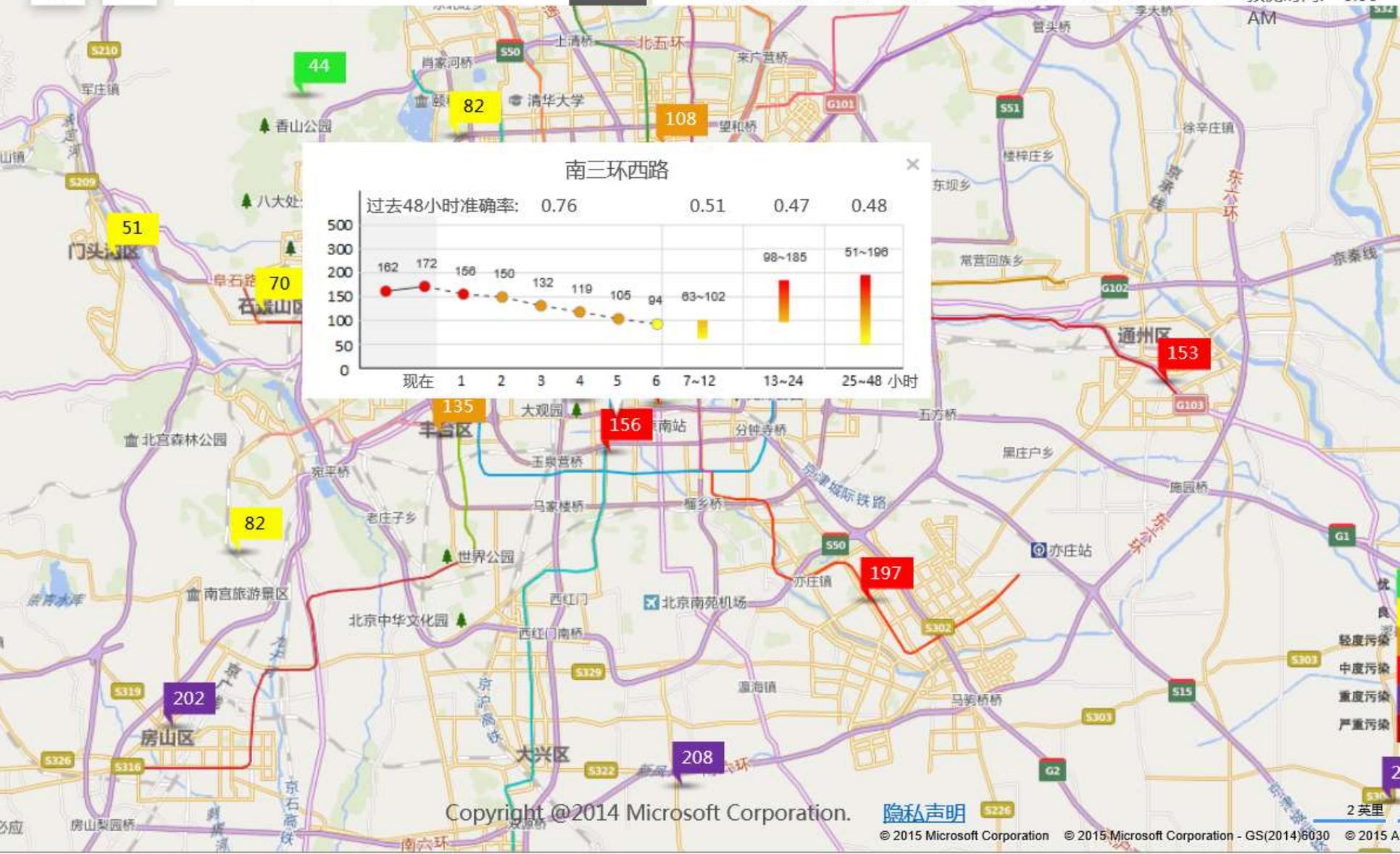
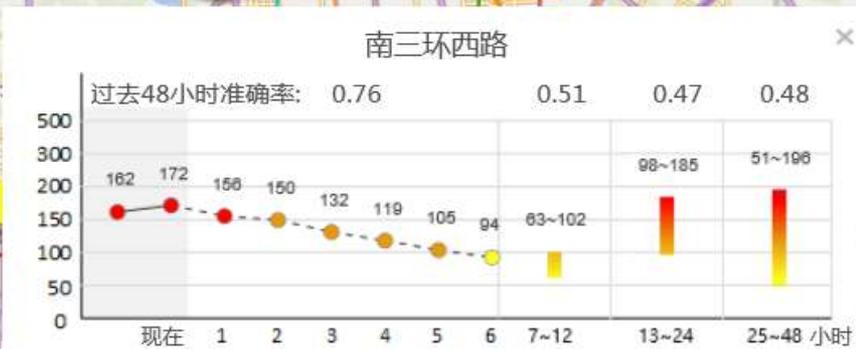
B. Forecast Fine-Grained Air Quality



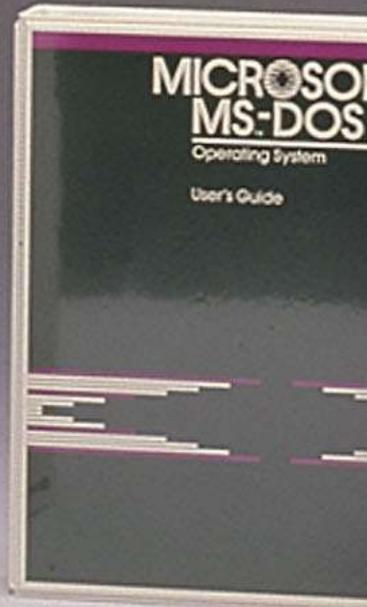
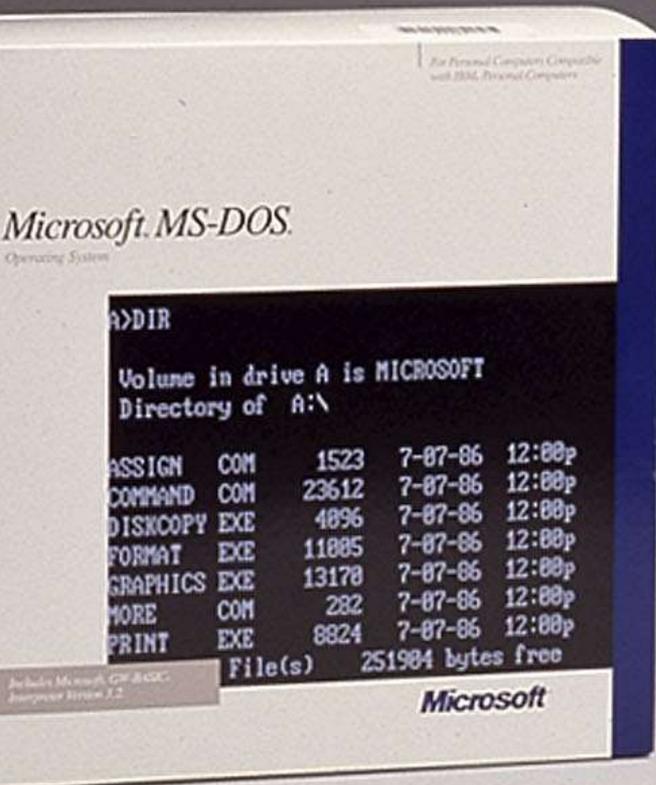
1小时 2小时 3小时 4小时 5小时 6小时 7~12 13~24 25~48

整体准确率: 0.69

预测时间: 6:00 AM



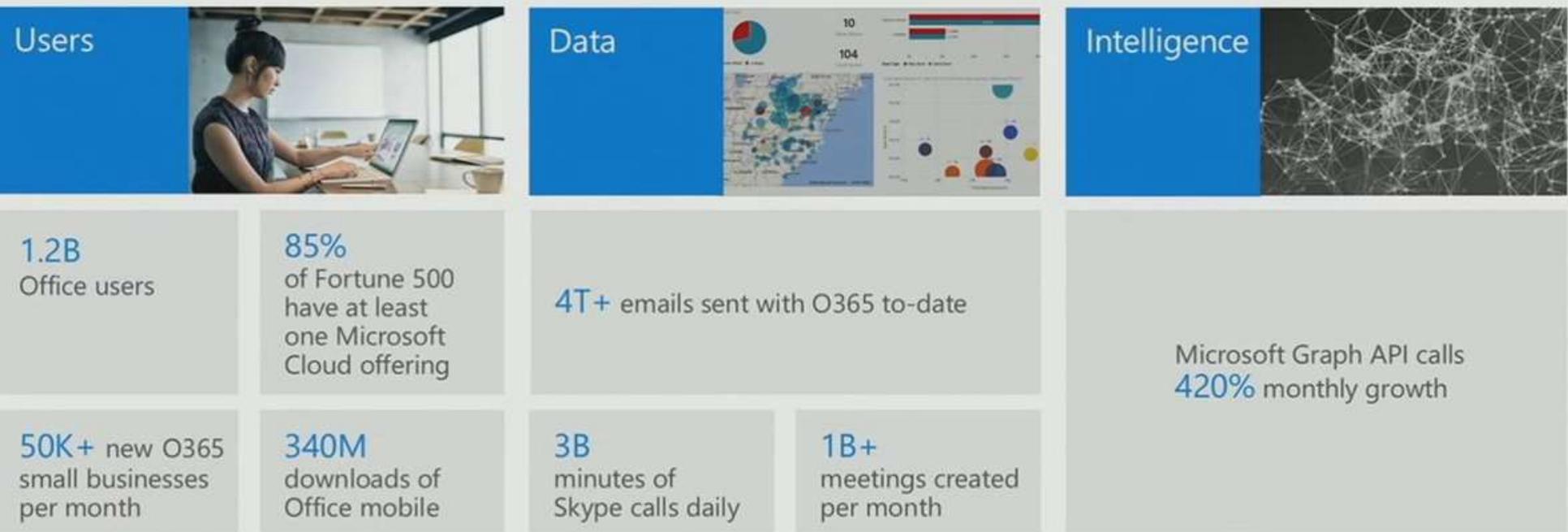
轻度污染
中度污染
重度污染
严重污染



Windows 10



"We are not pursuing AI to beat humans at games. We are pursuing AI so that we can empower every person and every institution that people build with tools of AI so that they can go on to solve the most pressing problems of our society and our economy." – Satya Nadella.







Interdisciplinarity

Dr. Tim Pan