

SharePoint 2013 应用(App) 开发

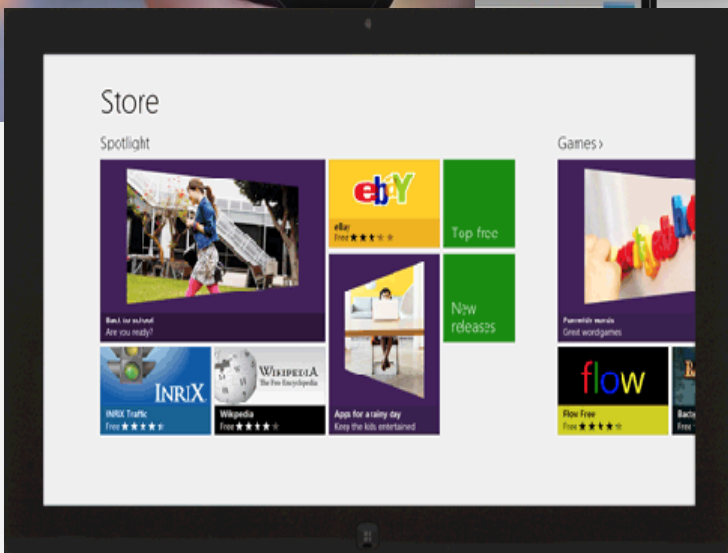
涂曙光 (Kaneboy)
HP



议程

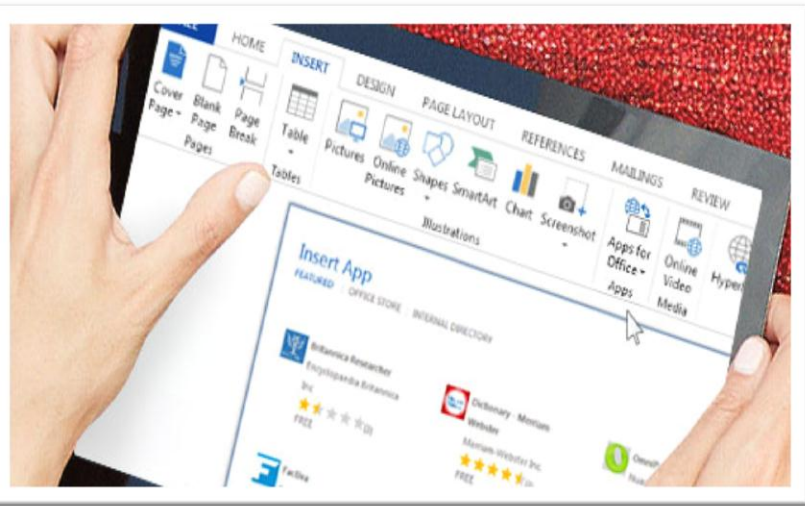
- 什么是 App ?
- SharePoint & Office App Model
- App Model 的基本架构
- Napa 和 Visual Studio
- App 托管模型

手机和平板上的 App



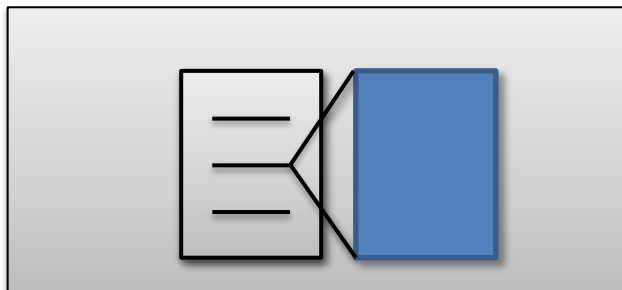
- 设备包含了
 - 内置的手机功能
 - 应用运行平台
- 应用的部署
 - 用户自己就可以安装
 - 通过标准的应用商店
- 应用的高独立性
 - 应用不会互相影响
 - 应用的数据存储被互相隔离
 - 应用的安装和卸载不影响整个设备或其它应用

Office 和 SharePoint 的 App



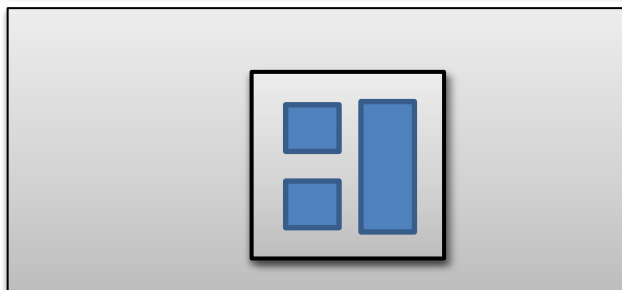
- 将移动设备上的 App 概念，带入到了 Office 和 SharePoint 领域
- Office Store
 - 面对无数的用户
 - App 非常容易被找到、试用、购买、共享
- 企业 App 目录
 - 管理企业内部 App
 - 监控从 Office Store 购买的 App

SharePoint App 表现形态



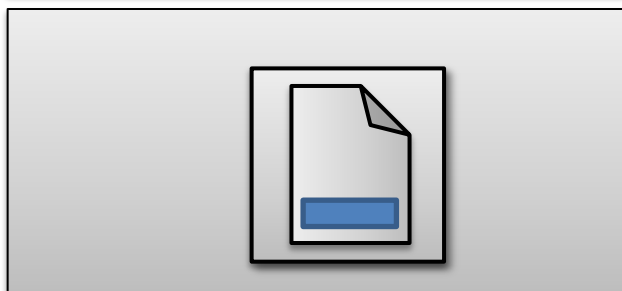
整页

实现完整的 App 体验



部件

创建 App 部件



UI 元素扩展

向 Ribbon 或其他内置 UI 元素中，
添加新的元素

SharePoint App 示例

The image displays three overlapping screenshots of Microsoft Office 365 and SharePoint interfaces.

The top screenshot shows a SharePoint site titled "Adlib PDF Publisher". The navigation bar includes "Back to site", "Adlib PDF Publisher", and a "System Account" dropdown. The left sidebar contains a "PDF" icon and a "document" section with links like "Cover Page", "Sales", "Intro Letter", "Solution Office", "Marketing", "Budget.xlsx", "Sales", "Standard Co", and "Legal".

The middle screenshot shows a SharePoint site with a "pinga" logo. The left sidebar lists "Home", "About", "Setup", and "Start Using". The main content area lists "Facebook Social Integration" options, including "Facebook Like Button", "Facebook Send Button", "Facebook Subscribe Button", "Facebook Comments", "Facebook Activity Feed", "Facebook Recommendations", and "Facebook Like Box".

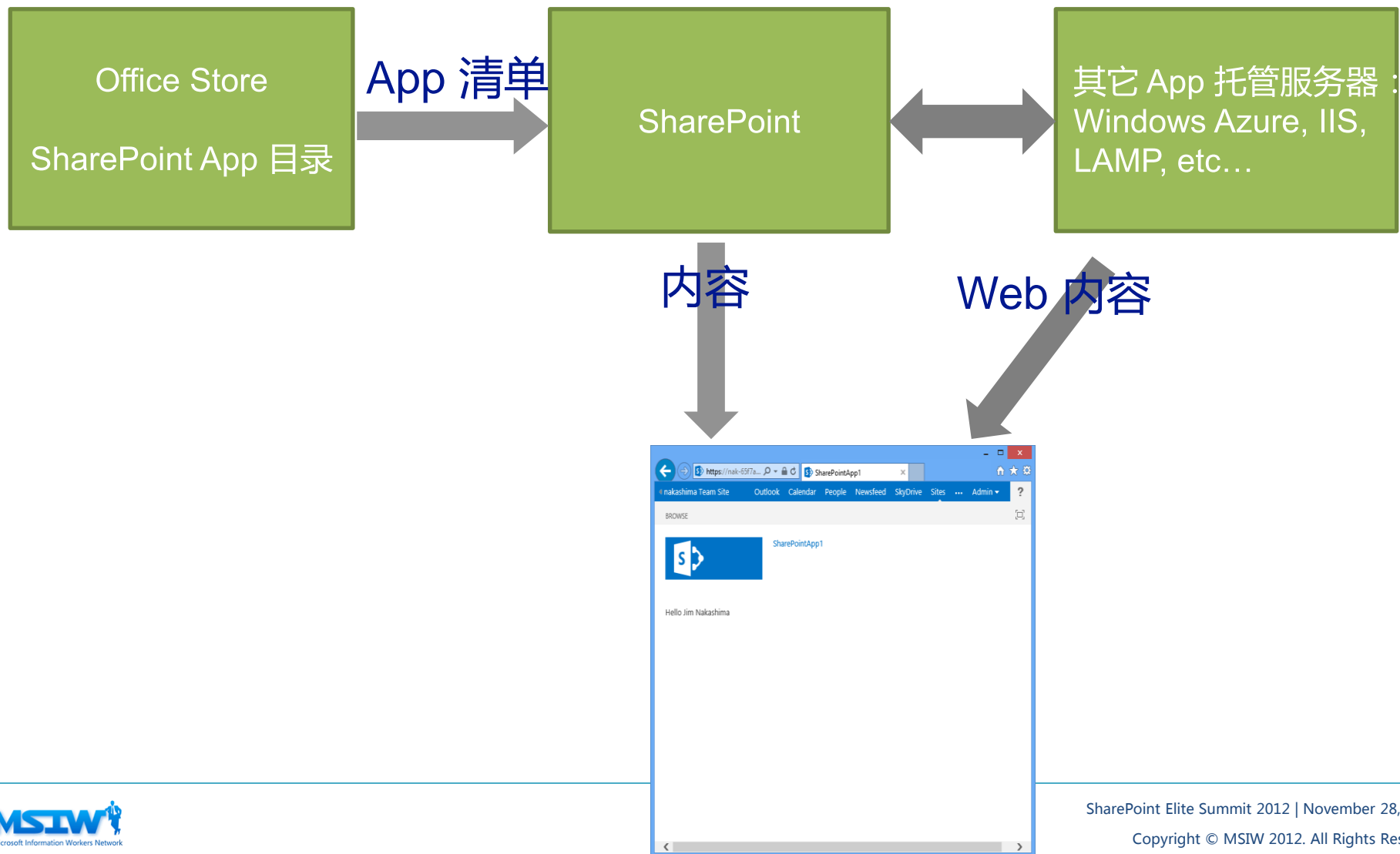
The bottom screenshot shows the "Add New App" dialog in Office 365. The dialog title is "What kind of app do you want to build?". It lists several app types:

- App for SharePoint**: Extend SharePoint with an app that integrates with SharePoint and the web. (Project name:)
- Task Pane app for Office**: Add functionality to Excel and Word documents in a task pane adjacent to the document. Requires Microsoft Office 2013.
- Content app for Excel**: Add content and functionality to the body of an Excel document.
- Mail app for Office**: Add functionality to Outlook items through an adjacent pane that automatically activates based on content-driven rules.



Demo: 使用SharePoint App

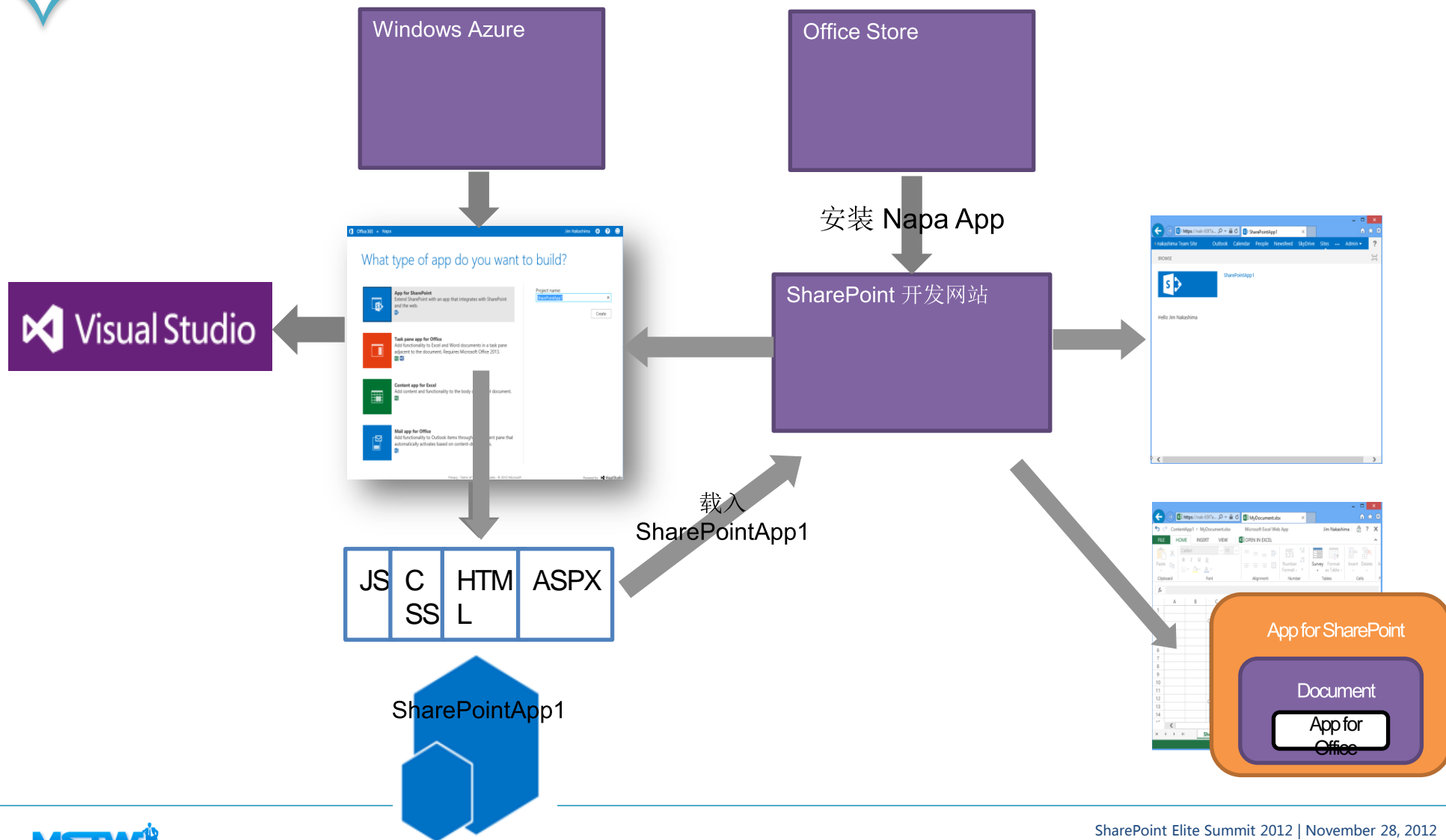
一个 SharePoint App 的剖析



Napa 和 Visual Studio

- Napa 是对 Visual Studio 的补充
 - 从 Napa 起步，然后用 Visual Studio 进行补充
- 如果需要的话，从 Napa 转向 Visual Studio 是很容易的。Visual Studio 提供了：
 - Debugger
 - 支持其它部署架构 (如：服务器端代码)
 - ALM 工具 (Team Foundation)
 - 其它 SharePoint 组件模板 (BCS, Workflow, etc.)

Napa 也是一个 SharePoint App





Demo: 使用 Napa 创建 App

SharePoint App 托管

Cloud-Hosted Apps

从 SharePoint 得到远程事件
使用 CSOM/REST + OAuth 与 SharePoint 交互

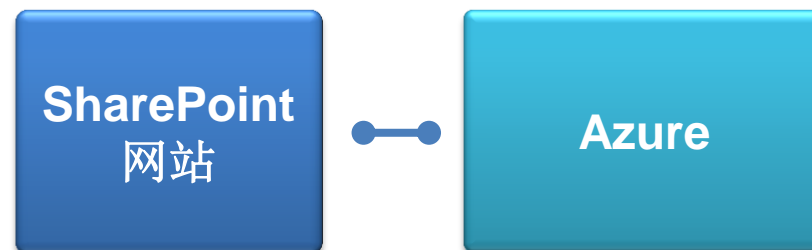
自托管 App

按照需求，自行托管



自动托管 App

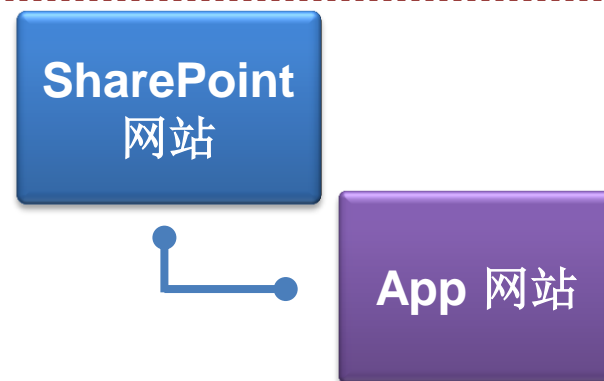
当 App 安装时，自动将网站发布到 Windows Azure + SQL Azure 上



SharePoint-Hosted App

在网站下自动创建一个隔离的 App 网站

- 重用 Web 元素 (lists, files, out-of-box web parts)
- 没有服务器端代码，只允许纯客户端技术



SharePoint-Hosted App

- SharePoint 将 App 整个托管在内部
- 直接使用 SharePoint 的各种资源 (列表/库)
- 业务逻辑在客户端运行
 - HTML 5
 - JavaScript

Cloud-Hosted App

- App 主要位于 SharePoint 外部
- 可能会使用 SharePoint 资源 (列表/库)
 - 通过 CSOM/REST 通讯
 - 通过 OAuth 来获得 SharePoint 权限
- 业务逻辑在 SharePoint 之外运行
 - 自托管的 Web 应用程序
 - Windows Azure
 - 第三方托管

SharePoint App 托管比较

	SharePoint-Hosted	Cloud-Hosted
App 范围	SharePoint Site	Site or Tenancy
架构	Web Site	Multi-Tenant App
开发人员使用的技术	SharePoint + HTML/JS	全部
UI 技术	SharePoint + HTML/JS	任何Web技术
服务器端代码	无	任意
数据存储	Lists / Doc Libs	任意
主要的限制	无服务器端代码	需要管理托管的应用



Demo: Cloud-Hosted App

App vs. Solution

- SharePoint 2013 仍然支持 Solution
 - 开发人员仍然可以创建 SharePoint Solution (.wsp)
 - Solution 的开发模式没有发生变化
 - Visual Studio 2012 中也内置了对 SharePoint Solution 开发的支持
- App 并非是用来取代 Solution 的
- Solution 不能发布到 Office Store

App 开发商/开发人员的机会

- 开发独立的 SharePoint/Office App
- 发布到 Office Store



微博：weibo.com/msiwblog

QQ群：278085843

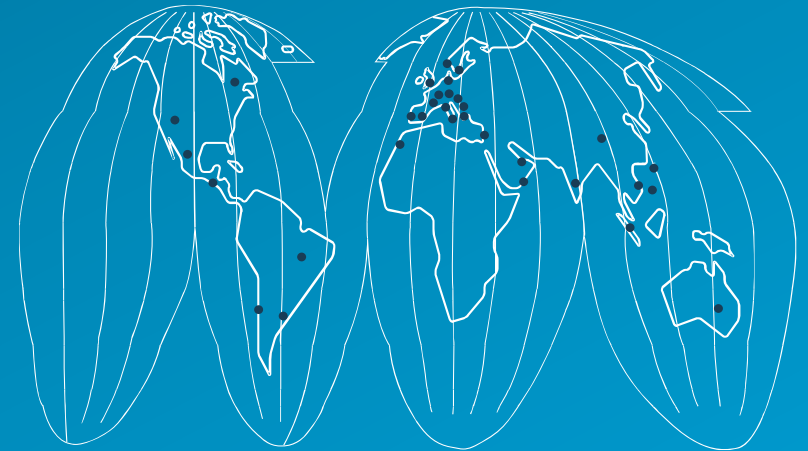
MSN群：mgroup24599@hotmail.com

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