IMS Europe Summit 2019
Lightning Talk

a data interoperability story...

Gene Garcia
this story begins in Atlanta, at Spectrum K12
acquired by Scantron

Data Interoperability!
Integration Platform as a Service for education
School Data Sync

Automatic group and class site creation

Student Information System
- Class Rosters
- Students
- Teachers
- Classes

Sync tools for School IT

Powering an Education Aware Platform

Azure Active Directory & Office 365

SSO
Class info
Edu API

Microsoft Teams
OneNote
Microsoft Intune
3rd Party Apps
Microsoft Analytics
Non-Vertical Stack

- **Azure Data Lake Service V2 (ADLSv2)**
  - Separate Compute from Storage
  - Supports schematized data and streams
  - Massive Storage Capacity – Looks like Files/Blobs
  - Common Data Model (CDM) – Describes Data and Lights up Features in Stack

- **Azure Data Warehouse**
  - Cloud Scale Data Warehouse

- **Power BI + Azure Analytics Services**
  - Customer Features to develop Models/Dashboards/Reports
  - Uses any data storage including ADLSv2 – CDM powered

- **Power BI Embedded**
  - ISV Features to develop Models/Dashboards/Reports and embed into outside solution
  - Includes branding and UX support to make look like surrounding product
  - Ability to use CDM and ADLSv2

- **Azure Data Factory**
  - Extract Transform and Load at Cloud Scale
Primary Goal: *Drive learning outcomes!*

1) data interoperability requires strong standards
2) strong ecosystem
3) a strong platform that makes it easy