Microsoft Azure

Managing Emissions Data in the Supply Chain

Technology Platform Components for managing and exchanging emissions data

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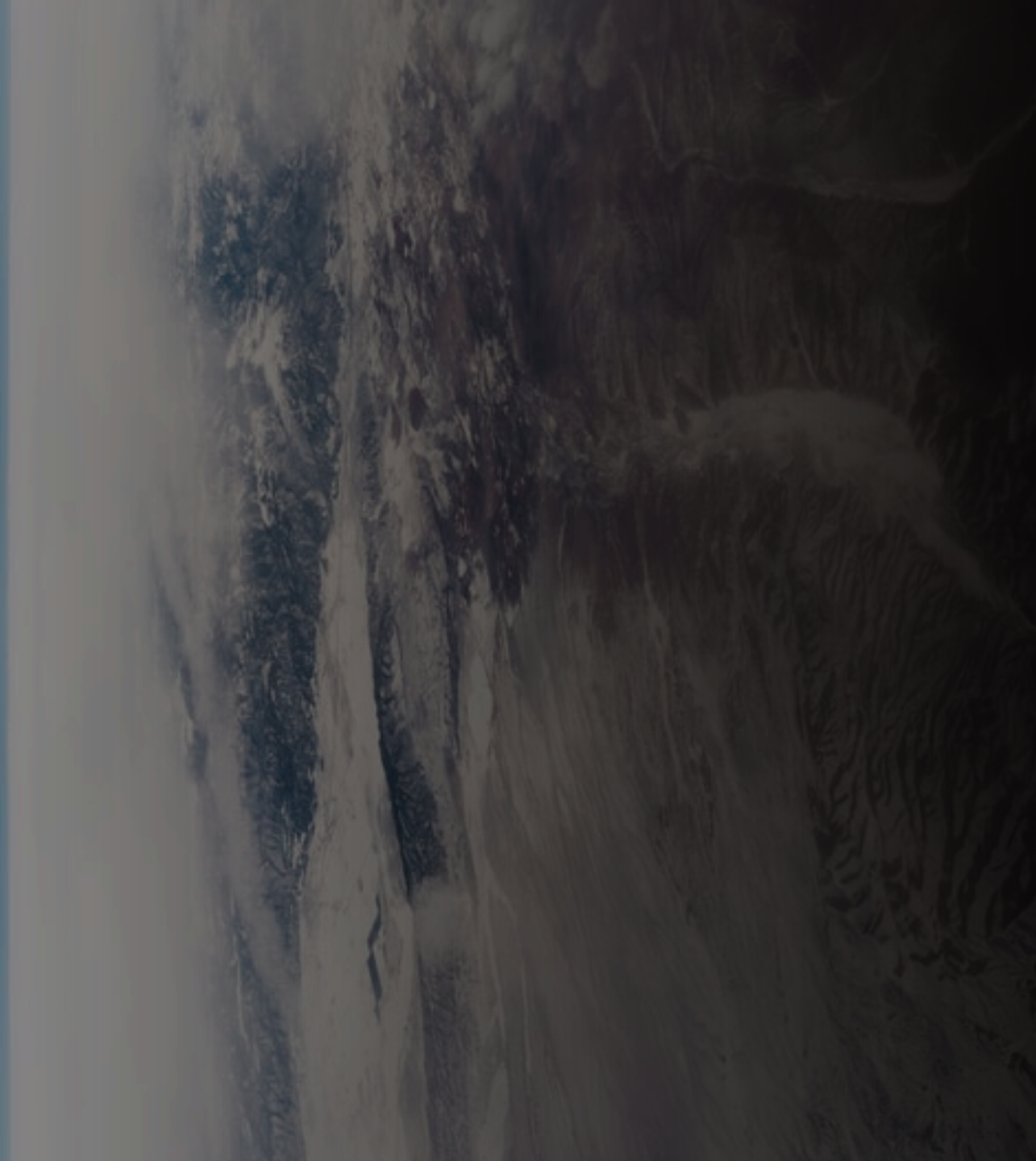
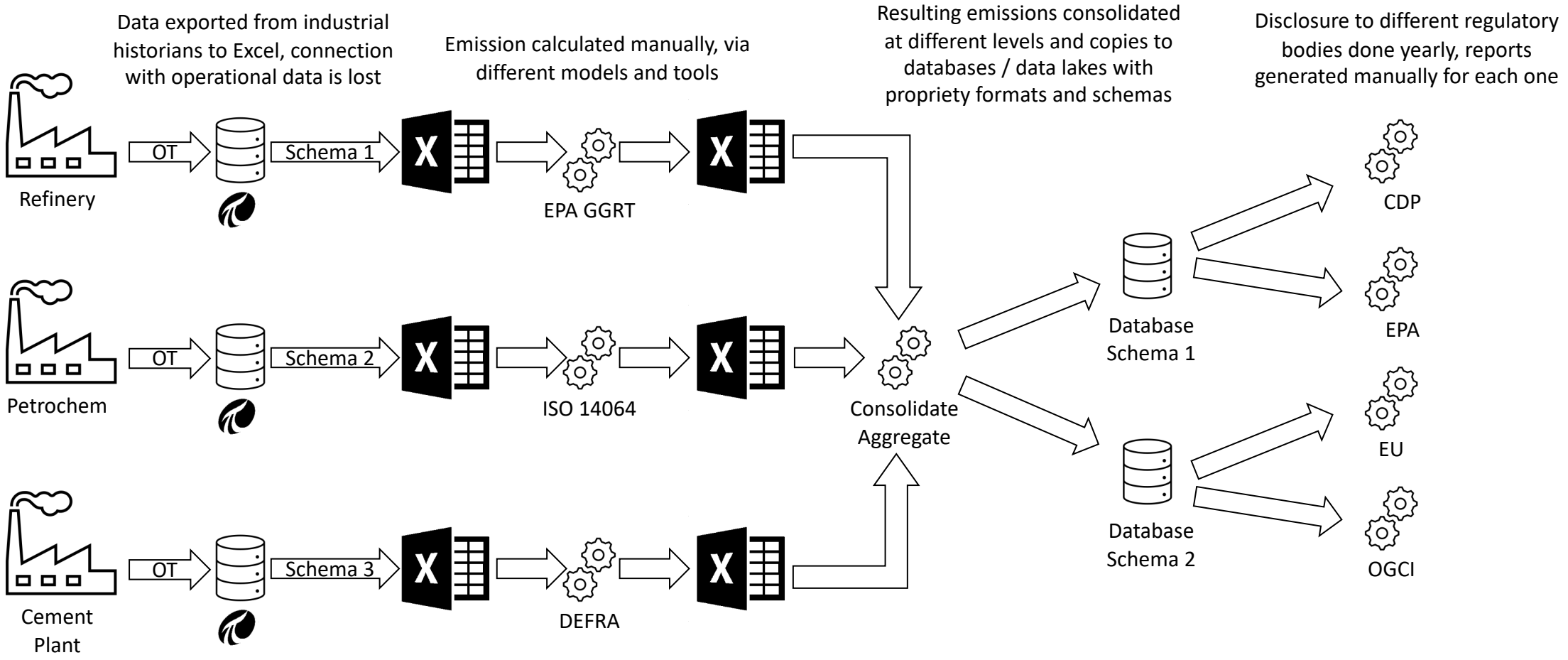


Azure Global

Day in the life of a GHG inventory manager



Where we need to go?

IoT & Near Real Time **Transparent + Auditable = Credibility** **Standard Data Formats** **Data Suitable for AI and ML**

Scope 3 Emissions makes it even more complex

Scope 3 Emissions Data from Supply Chain

Prequalification
Quote
Purchase Order
Invoice
ASN

PIDX

Upstream or downstream	*Scope 3 category*
Upstream scope 3 emissions	1. Purchased goods and services 2. Capital goods 3. Fuel- and energy-related activities (not included in scope 1 or scope 2) 4. Upstream transportation and distribution 5. Waste generated in operations 6. Business travel 7. Employee commuting 8. Upstream leased assets
Downstream scope 3 emissions	9. Downstream transportation and distribution 10. Processing of sold products 11. Use of sold products 12. End-of-life treatment of sold products 13. Downstream leased assets 14. Franchises 15. Investments

Scope 3 Emissions Data to Supply Chain

PIDX

Prequalification
Quote
Purchase Order
Invoice
ASN

Reference Data

PIDX

Petroleum Industry Data Dictionary

Emissions footprint from the manufacturing of product

Model to calculate emissions during usage

[Corporate-Value-Chain-Accounting-Reporing-Standard_041613_2.pdf (ghgprotocol.org)]

Where we need to go?

Emissions Footprint data part of Supply Chain transactions

Automating the Emissions Lifecycle

Business and Process Data

Edge

Telemetry & Event Data

Telemetry

IoT Platform

Telemetry Data

Standards Bodies
Service Providers
Corporate Data

Models

Microsoft | Azure Marketplace

SaaS Applications

Emissions Data

Trading

Disclosure

Supply Chain

THE OPEN GROUP OPEN FOOTPRINT™

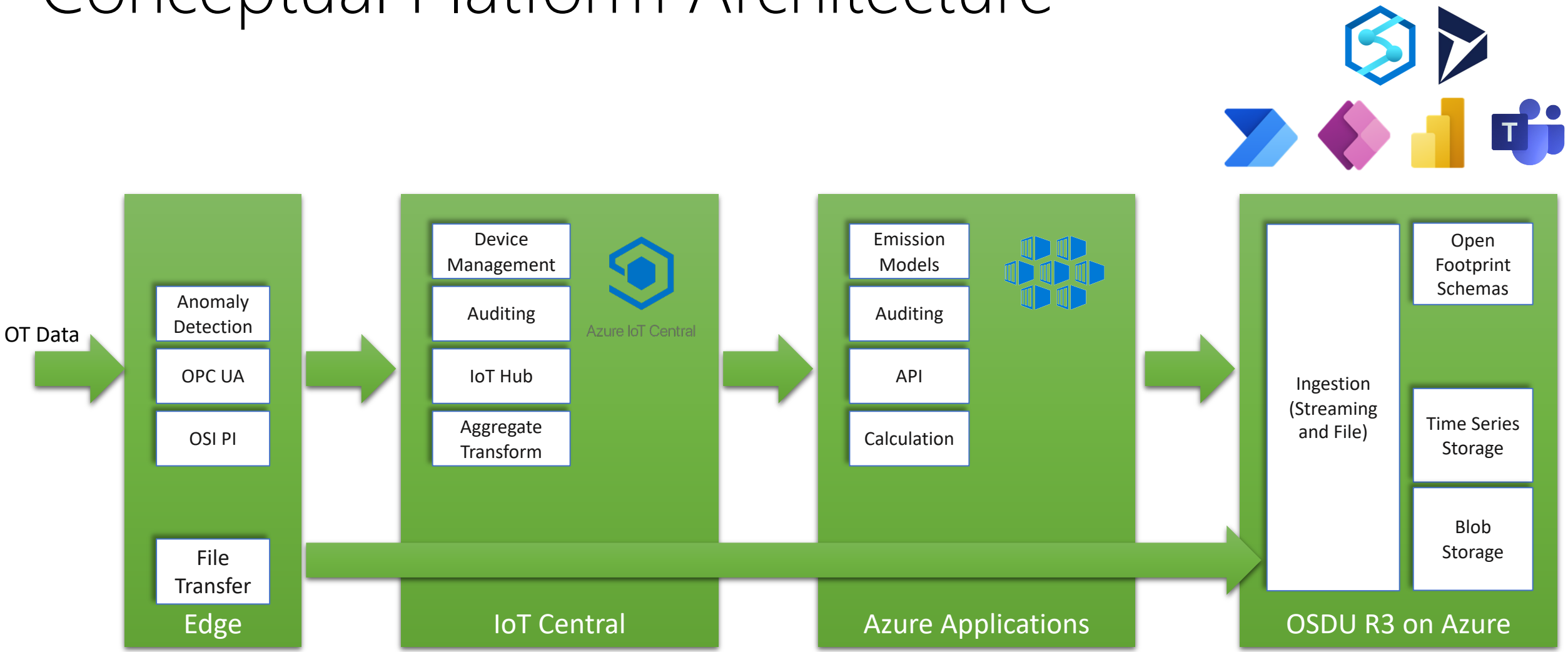
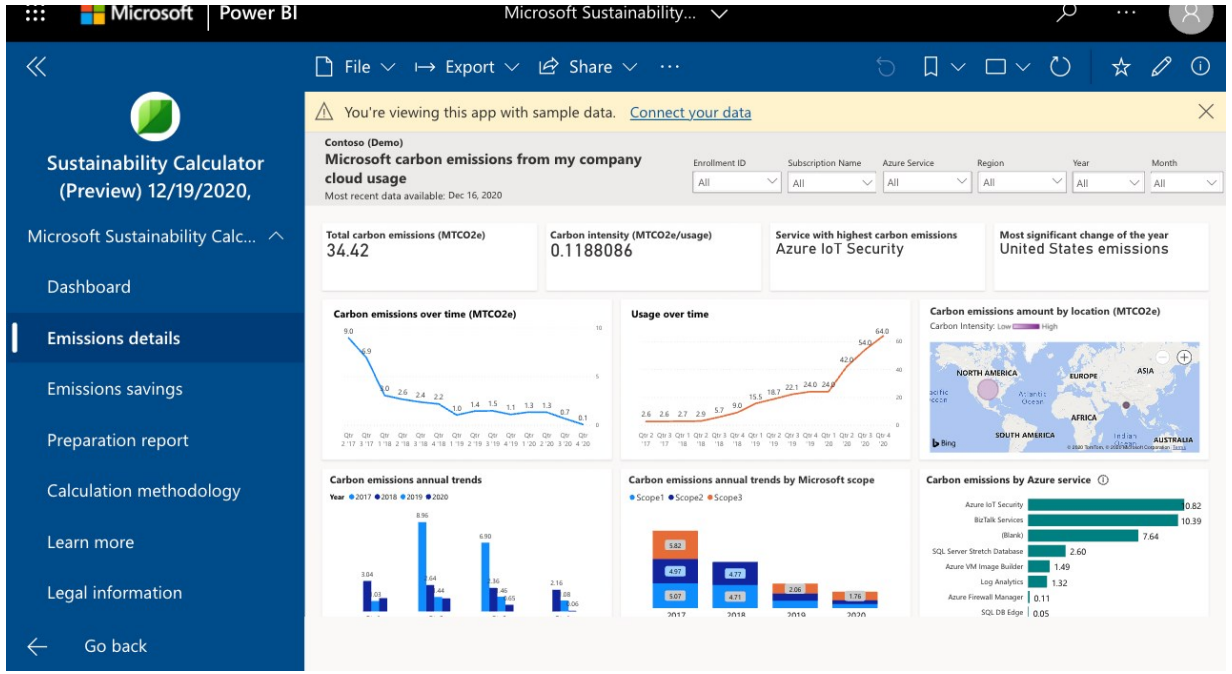
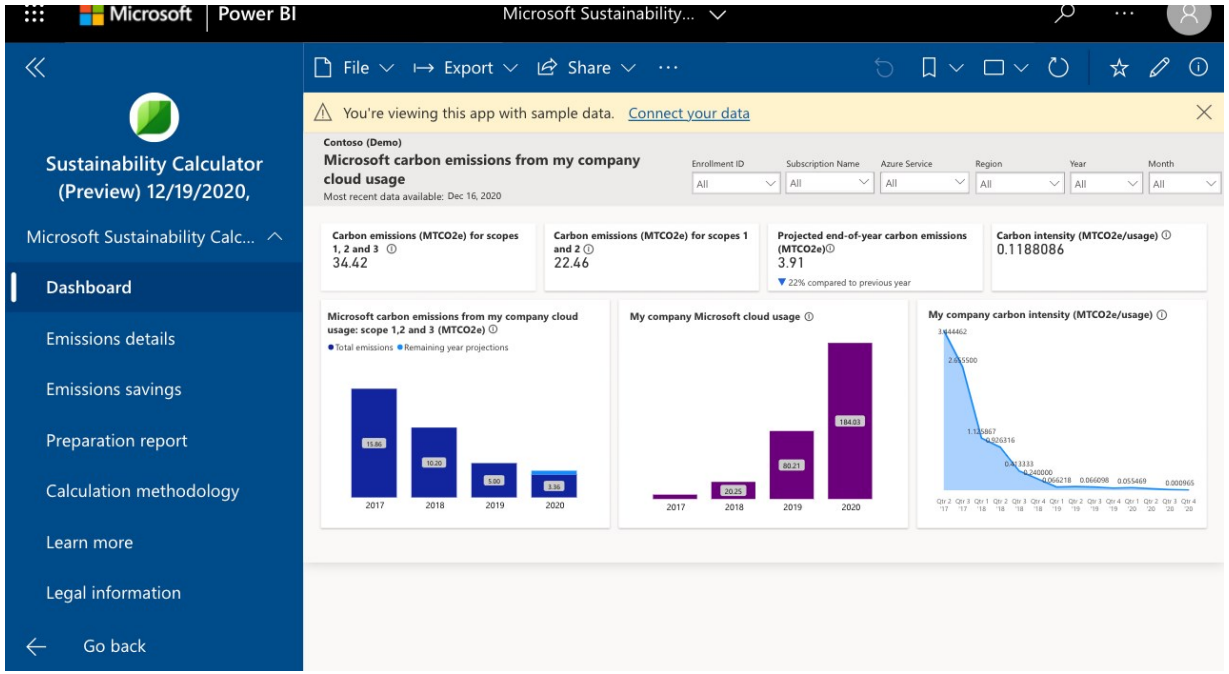
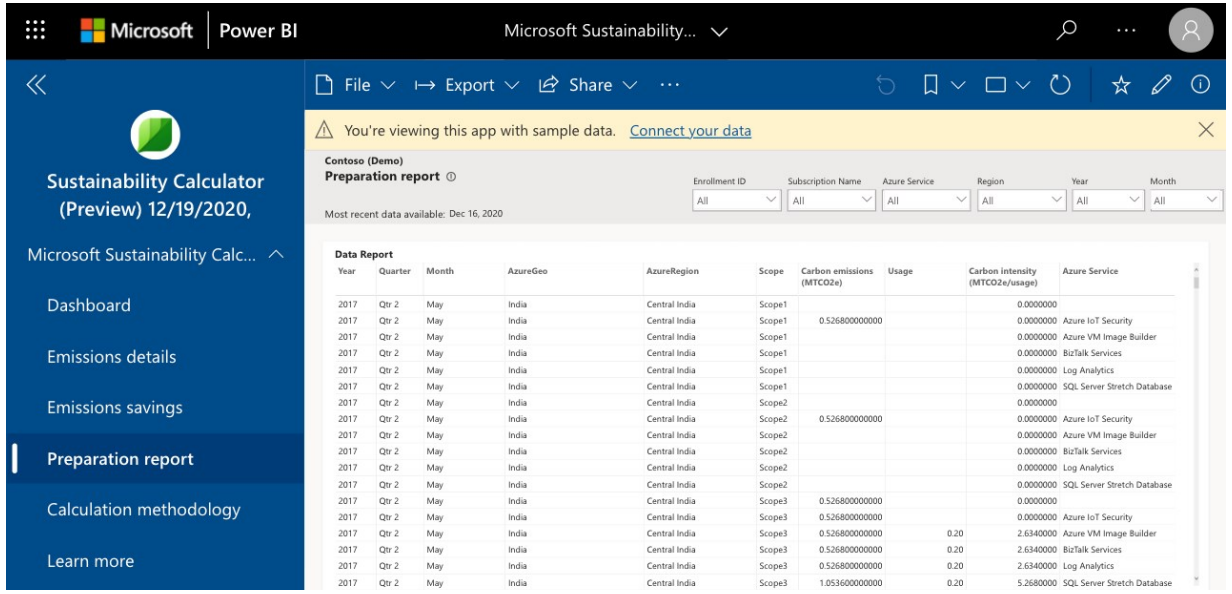
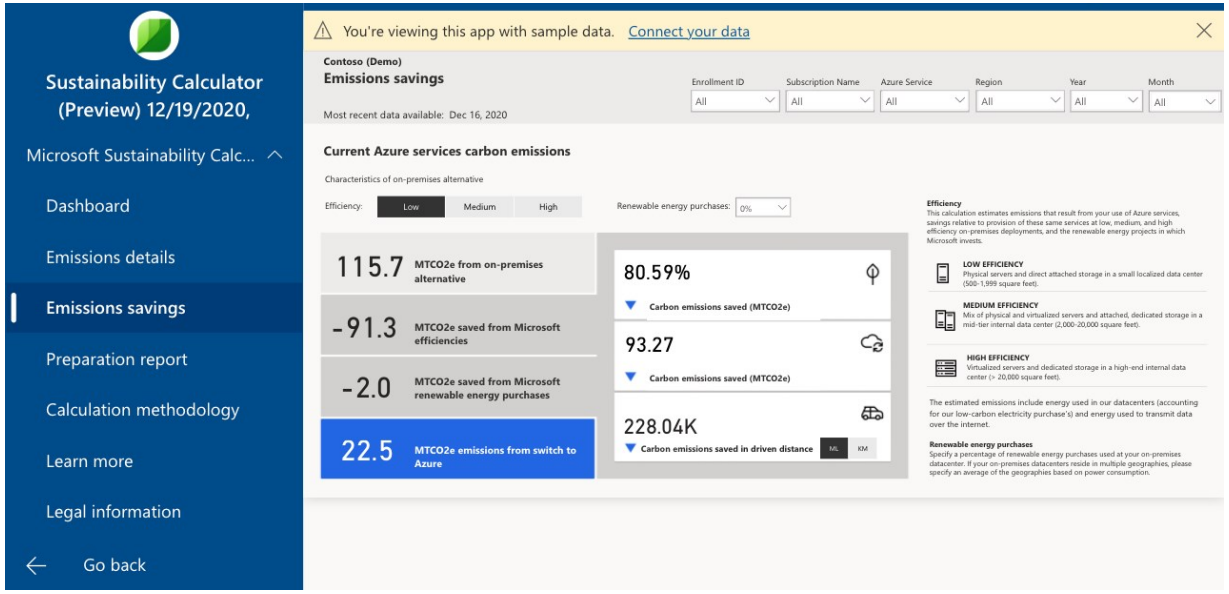
PIDX INTERNATIONAL

OSDU™

Emissions Storage

OFP Schema

Conceptual Platform Architecture



Microsoft Azure Sustainability Calculator https://aka.ms/appsource