



Data marketplace

A required infrastructure for
business of scale

Problem statement

1. Drivers own cars and produce data
2. Data is stored by the entity who created/deployed the device to the car
3. New data driven businesses need to access the data

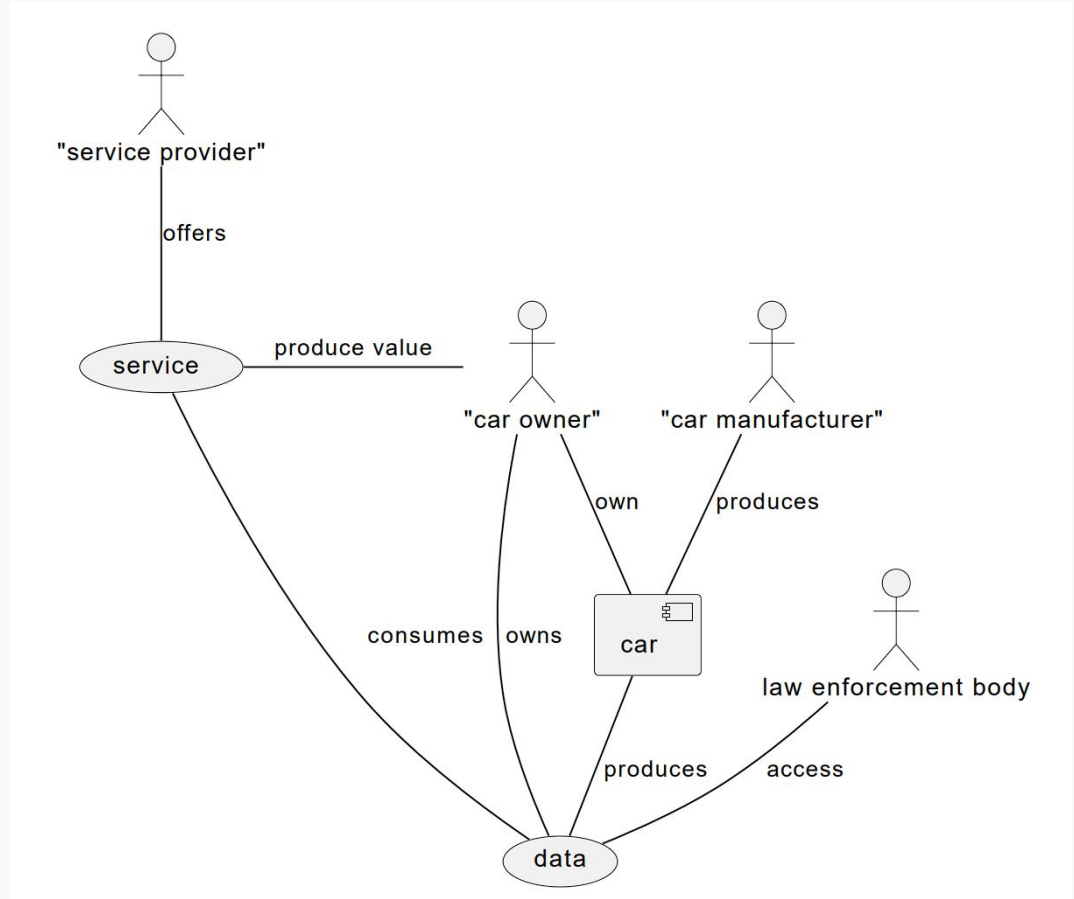
As of today, there is no unified way of handling consent, and data access across all parties. Everything is handled individually by the parties involved.

Eco system participants (initial)

Service provider (data consumer but also data provider)

Car owner (also data producer)

Car manufacturer (data provider, aggregator, also possibly data consumer)



Desired state

1. Drivers and owners produce data based on consent
2. Data is stored by the entity who created/deployed the device to the car if consented by the owner
3. This entity defines terms and conditions to access the stored data
4. Interfaces allow the access to data protected by state of the art security measures and access control
5. We create a goto-place where all participants can go and explore
6. Everyone can onboard and register for accessing the data according to the predefined terms and conditions
7. Curated/processed datasets, models, and other things can be made available again



examples

(Data) marketplaces are omnipresent in today's web-based ecosystems, some examples you may know

AWS data exchange

aws marketplace

Sign in or Create a new account

About Categories Delivery Methods Solutions AWS IQ Resources Your Saved List Become a Channel Partner Sell in AWS Marketplace Amazon Web Services Home Help

▼ Refine results

[Clear all filters](#)

[< All categories](#)

[< Data Products](#)

Automotive Data

▼ Delivery methods

[Clear](#)

Data Exchange (182)

▼ Publisher

- Alt/Finance - Alternative Asset Data (31)
- Datorq (20)
- Market.us (16)
- Global Market Insights Inc. (11)
- AirSage (10)
- Infinite Loop Development Ltd (9)
- Market Research Store (8)
- PIXTA AI (7)
- Nexar Inc. (7)
- Adstra Marketing Data (5)

[Show All](#)


▼ Data set type

- Files (Amazon S3 Objects) (148)
- Access to Amazon S3 (34)

< 1 2 3 4 5 ... > ⚙

Automotive Data (182 results) showing 81 - 100


Sort By: AWS customer rating ▼

 **Factori High Fidelity Mobility Data|200 Billion+ Locations**

By [Factori Technologies Pte. Ltd.](#)

Price \$96,000 | 12 month subscription available.


We provide high precision human mobility data collected from location aware partner mobile apps from outside US locations, which includes attributes such as vertical accuracy and altitude to provide accurate measurement.

 **Factori Point of Interest/ POI Data | Map Data | Global Visitation Data**

By [Factori Technologies Pte. Ltd.](#)

Prices starting at \$25,000 | 3, 6 and 12 month subscriptions available.

We provide POI/visitation data, which helps power geographical information system (GIS) tools and provides data-driven insights across a wide range of use cases, from marketing to public planning and fraud detection.

 **Nexar Road Sign Detections (San Francisco, March 2020)**

By [Nexar Inc.](#)

Price \$2,500 | 12 month subscription available.

Locations of traffic signs in San Francisco that are extracted from images collected from Nexar dash cam network. Using cutting edge AI, both in our smartphone apps and on the cloud, we analyse frames to deduce locations of the most common road signs so you can understand the physical world better...

Examples: MS azure marketplace

Learn / Partner Center / 1 □

Welcome to the commercial marketplace

Learn about the commercial marketplace, an online marketplace for applications and services that lets businesses of all sizes offer solutions to customers around the world.

Working in the commercial marketplace

- b GET STARTED**
- [Create a new account](#)
- [Introduction to listing options](#)
- [Policies and terms](#)
- [Microsoft commercial marketplace FAQs](#)
- [Mastering the marketplace [↗]](#)
- [Microsoft Publisher Agreement](#)

Common scenarios and tasks

- e OVERVIEW**
- [Marketing best practices](#)
- [Cloud solution providers](#)
- [Offer listing best practices](#)

- b GET STARTED**
- [Customer leads from your marketplace offer](#)
- [Co-sell option in the commercial marketplace](#)
- [Co-sell partner engagement](#)
- [Make solutions available in Microsoft AppSource and within Office](#)
- [Participate in the Azure Marketplace and AppSource community forum [↗]](#)
- [Register to join webinars for](#)

Analyze your offer and customer data

- c HOW-TO GUIDE**
- [Summary dashboard](#)
- [Marketplace Insights dashboard](#)
- [Usage dashboard](#)
- [Customer dashboard](#)
- [Orders dashboard](#)
- [Ratings and reviews dashboard](#)
- [See more](#)

Create an offer

- c HOW-TO GUIDE**

API reference

- i REFERENCE**

Examples: Kaggle

≡ kaggle

+ Create

🏠 Home

🏆 Competitions

📁 Datasets

🤖 Models

<> Code

💬 Discussions

🎓 Learn

∨ More

🔍 Search datasets

☰ Filters

All datasets

Computer Science

Education

Classification

Computer Vision

NLP

Data Visualization

Pre-Trained Model

Software Engineer Jobs & Salaries 2024

Emre Öksüz · Updated 3 days ago
Usability 10.0 · 23 kB
1 File (CSV)

▲ 19



★ Stars Dataset ★

Waqar Ali · Updated 6 days ago
Usability 10.0 · 41 kB
1 File (CSV)

▲ 7



Dataset from TIKTOK

Ramin Huseyn · Updated 18 days ago
Usability 10.0 · 813 kB
1 File (CSV)

▲ 8



Real world Laptop Data Analysis

Janil hareshbhai ghori · Updated 3...
Usability 10.0 · 1 MB
4 Files (other, CSV)

▲ 14



🏷️ Music

See All



1990s Classic Hits (with Spotify Data)

The Bumpkin · Updated 15 days ago
Usability 10.0 · 42 kB
1 File (CSV)



Small Guitar Model Dataset (113 Models)

The Bumpkin · Updated 16 days ago
Usability 10.0 · 9 kB
1 File (CSV)



1980s Classic Hits (with Spotify Data)

The Bumpkin · Updated 16 days ago
Usability 10.0 · 45 kB
1 File (CSV)



Ozzy Osbourne Studio Tracks (with Spotify Data)

The Bumpkin · Updated 9 days ago
Usability 10.0 · 7 kB
1 File (CSV)



Architecture

Guiding principles

It is not the goal to re-invent the wheel

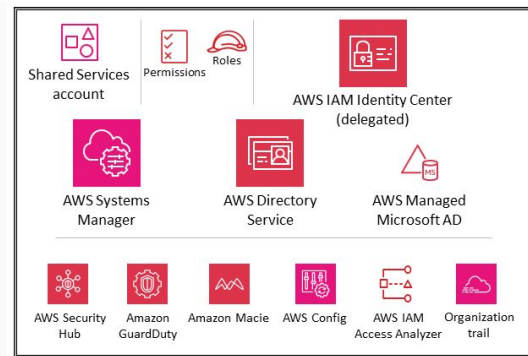
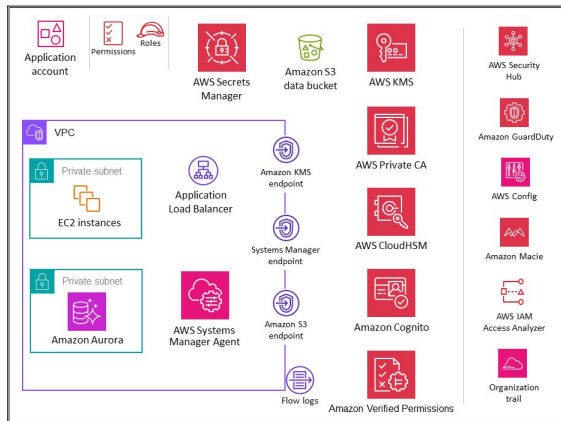
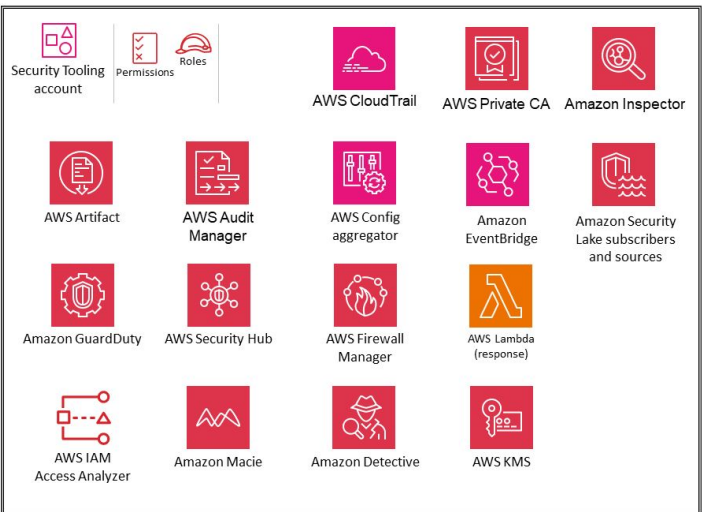
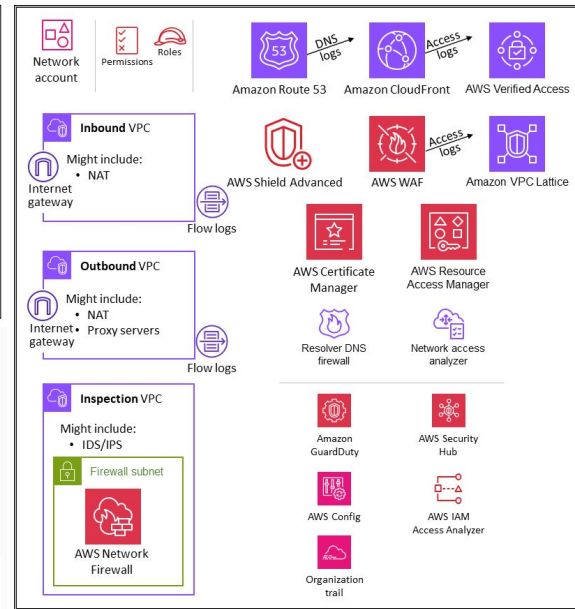
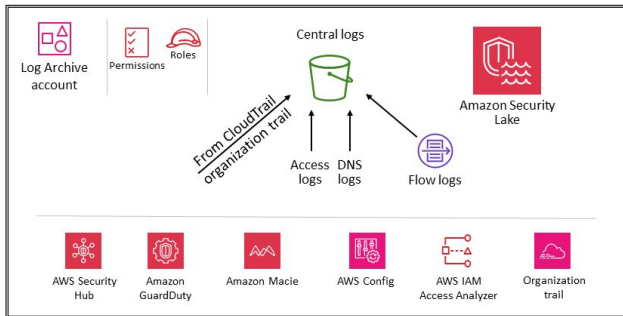
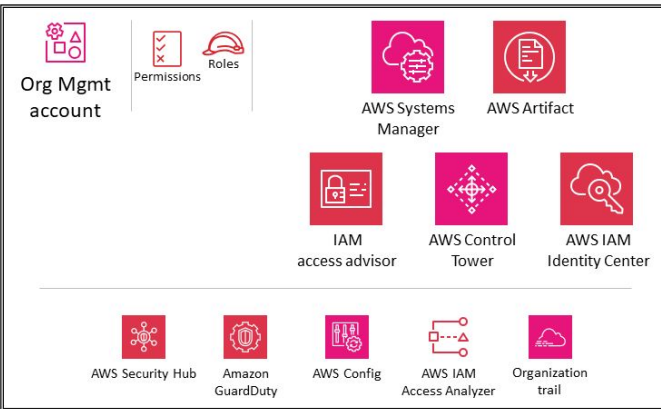
We need a fast enabler to accelerate the business growth in the service space.

1. Resilient, low maintenance costs and highly available
2. Secure and cost efficient
3. Self services (onboarding, resource creation)
4. Multitenancy
5. Worldwide reach
6. (Almost) limitless scale
7. Ease of use
8. Easy to extend

Parts

Parts of the ecosystem, separated by concern and loosely coupled for data transmission between them

1. User and role management
2. Access control
3. Usage measuring
4. Billing
5. User onboarding (self services)
6. Terms and condition store
7. dataset /data source metadata store
8. Consent store
9. Onboarding strategies for data sources (streaming, blocks), data access mechanisms
10. Data transportation (source to sink)
11. Fulfillment, payment
12. And more



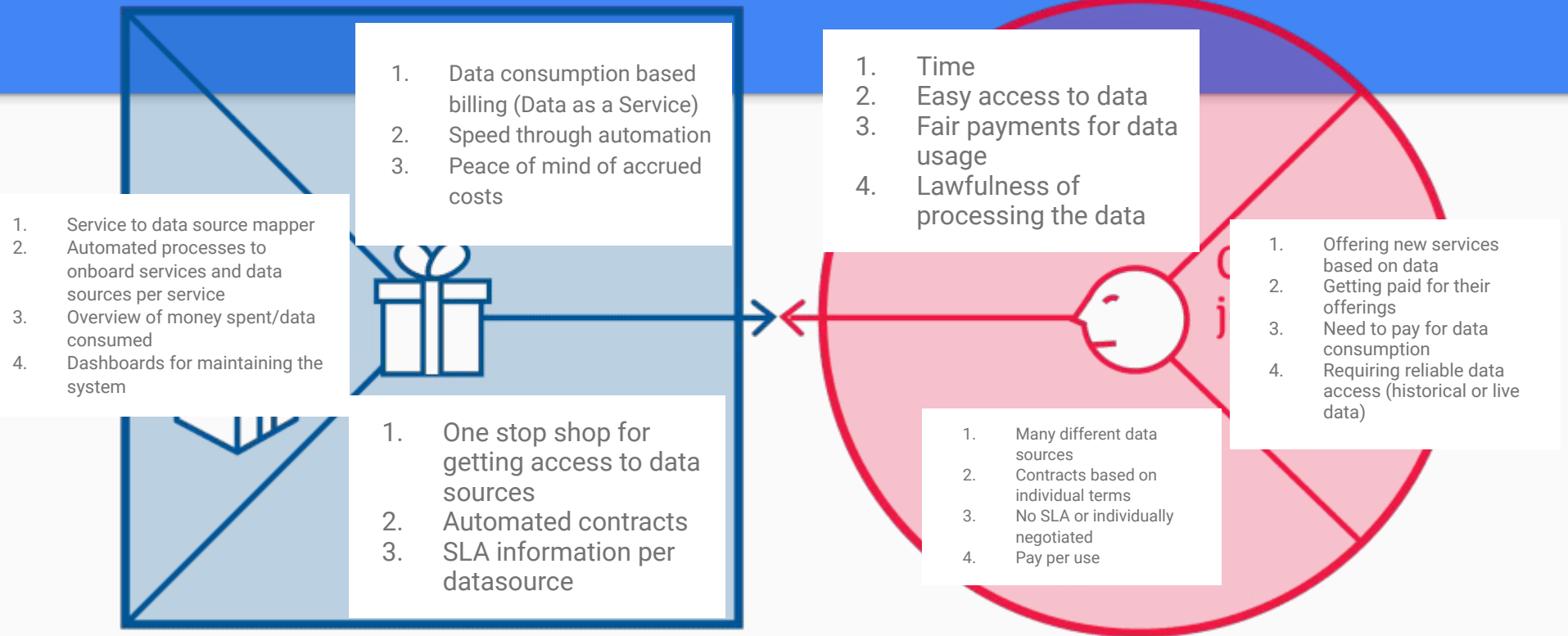
What is in for the parties?

What are the benefits of this solution for the participants of the ecosystem?




Value Proposition


Data consumer





Value Proposition


Data producer


- 
1. Identity federation and authentication
 2. Consent store and checks of lawfulness of data acquisition
 3. Information channels (most likely consent information with feedback)
 4. A user frontend for managing granted consents and further information

- 
1. Single sign on
 2. Access management based on granted consent
 3. Overview and management of granted consent

- 
1. Consented data storage
 2. Data storage with state of the art security measures
 3. Regular information of usage
 4. Immediate information on applied changes

- 
1. One login process only (car manufacturer)
 2. Peace of mind wrt. Consent and data access management
 3. Time due to automated onboarding processes

- 
1. Is my data protected
 2. Multiple logins and passwords for multiple services
 3. enrolling for new services
 4. Lawfulness of data acquisition

- 
1. Wanna use new services
 2. Is producing data that can be collected by the data aggregator (aka provider)
 3. Enjoying riding a great car
 4. Executing data privacy rights

Value Proposition

1. Automated onboarding for consumers and new data sources
2. Access management to data sources
3. Authentication mechanisms and identity federation
4. Measure usage and generate invoices

1. Increases speed due to automated processes
2. Standardized data access for all consumers with defined SLA
3. Usage correlated billing



1. Automated contracts to data consumers
2. A unified way of dealing with consent and privacy
3. Exposing information on SLA and data requirements
4. Billing and usage measurements

Data provider

1. Time
2. Data as a Service business model
3. Peace of mind (lawfulness, SLA's, invoicing)

1. Collecting data from individual sources
2. Enforces legal requirements to data producer
3. Offers multiple API's to data consumers

1. Individual contracts with data consumers
2. Relays data privacy information
3. For each service different data requirements may apply
4. Billing manually on individual contracts

The team

Answer the question, "Why are we the ones to solve the problem we identified?"

Wendy Writer

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eiusmod tempor

Ronny Reader

Lorem ipsum dolor sit
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Abby Author

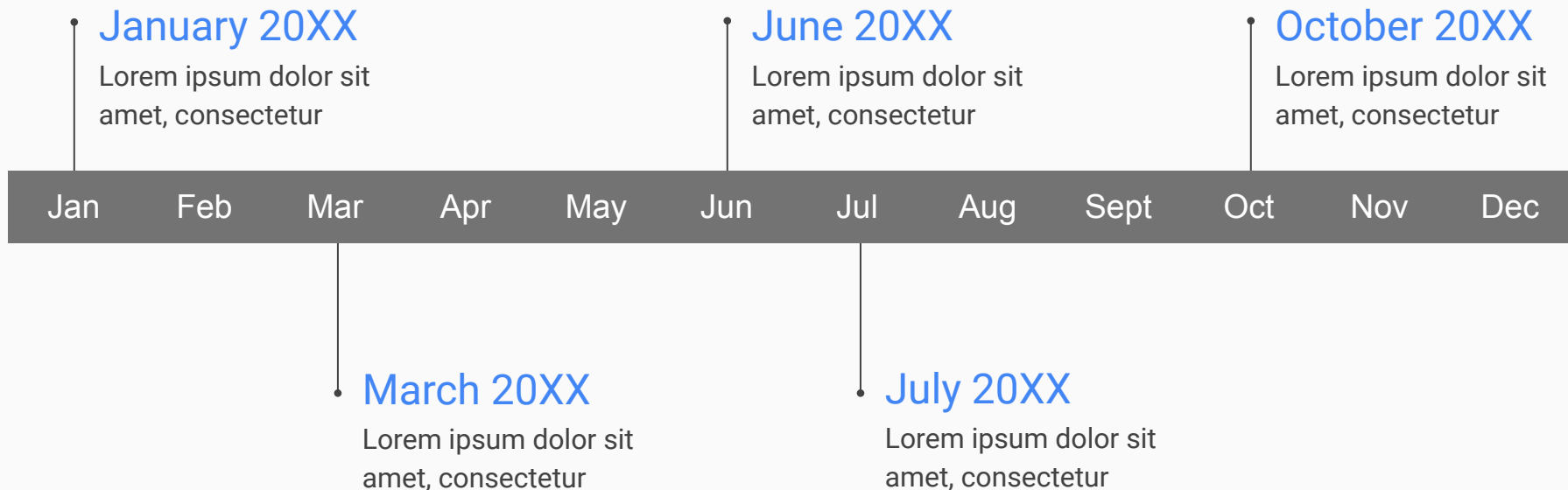
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Berry Books

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Milestones

Show where you are in the process and what's left to tackle



Appendix

Show the audience you anticipated their questions.

Leave room for Q&A, but use the Appendix as a way to show that you both thought about those questions and have solid answers with supporting information. Let the audience test their understanding of the problem and the solution you've outlined - questions give them a chance to talk themselves into your approach, and give you a chance to show mastery of the subject.

How it works

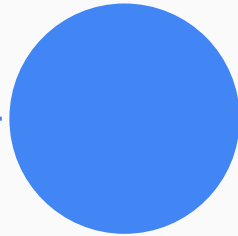
Step 1

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Step 2

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Step 3

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