

Katja Glass  
Consulting

# Proprietary vs. Open-Source – What's more FAIR?

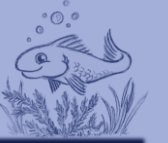
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## A Comparison



# Agenda

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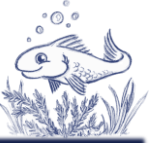


- Introduction
  - FAIR views
  - Money, Money, Money
  - Fairness & More
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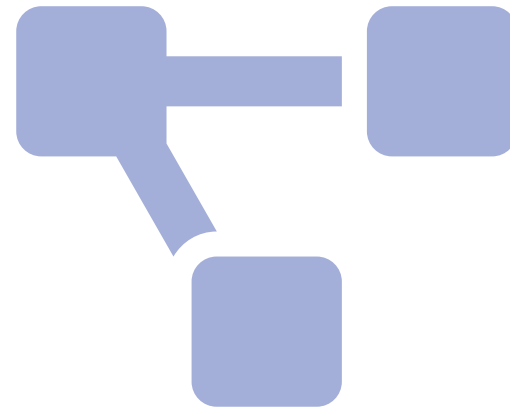


# Introduction

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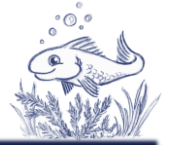
- Associations with FAIR



- Developed for Data, applicable for much more
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# FAIR Views

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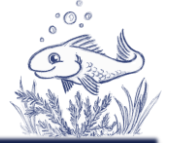
- Proprietary Software (Sell-Software) vs. Open Source

## **F** - Findable



# FAIR Views

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- Proprietary Software (Sell-Software) vs. Open Source
- Findable is an issue for all
  - What solutions exist (pay or open)?
  - No repository / knowledge graph with information
  - Open-Source has a portal ([www.glacon.eu/portal](http://www.glacon.eu/portal))
  - Rely on conferences, social media, newsletters, word of mouth
- Need information hub(s)
  - Generic concept presented 2020-09,
  - Needs to be done & maintained



# FAIR Views



- Proprietary Software (Sell-Software) vs. Open Source

## **A** - Accessible

Proprietary



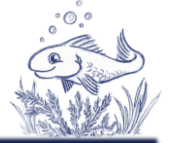
Information,  
Presentations,  
Demo

Open Source



Source fully,  
Tools sometimes

# FAIR Views



- Proprietary Software (Sell-Software) vs. Open Source

## I - Interoperable

Proprietary



Specific  
Integrations,  
APIs (if available)

Open Source



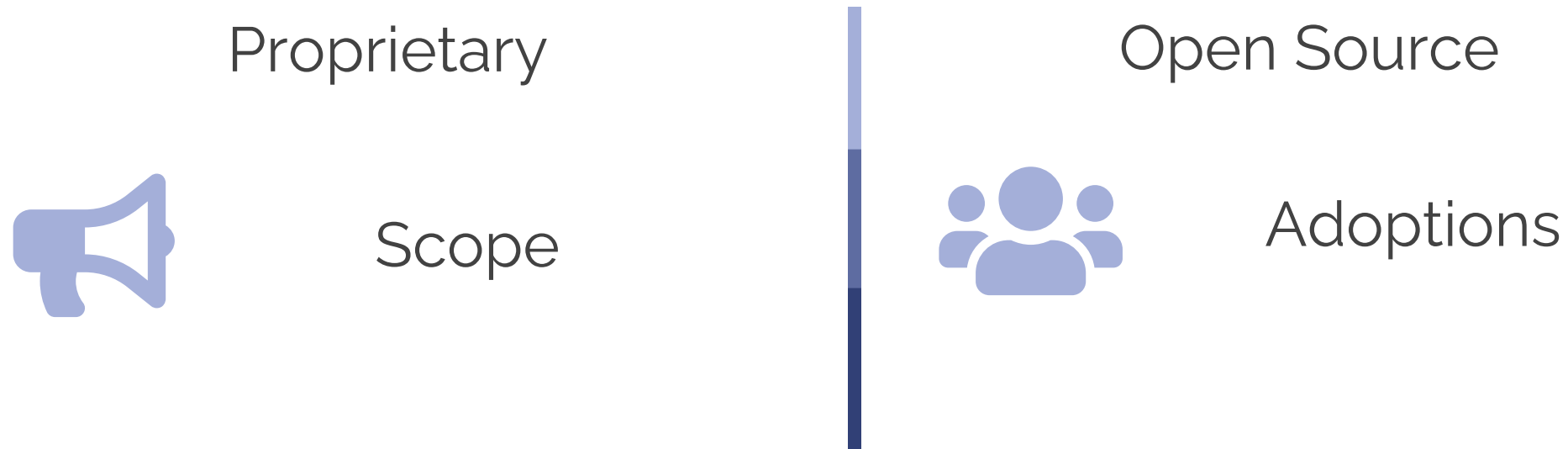
Often generic,  
APIs

# FAIR Views



- Proprietary Software (Sell-Software) vs. Open Source

## **R** - Re-Usable



# Money, Money, Money

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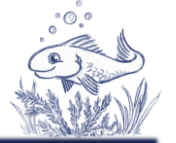


- Reliability & Stability
- Maintenance & Service Level Agreements (SLA)
- **Cost**



# Money, Money, Money

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## ➤ Examples

### Proprietary

- SAS
- P21 Enterprise
- MDR Tools

### Open Source

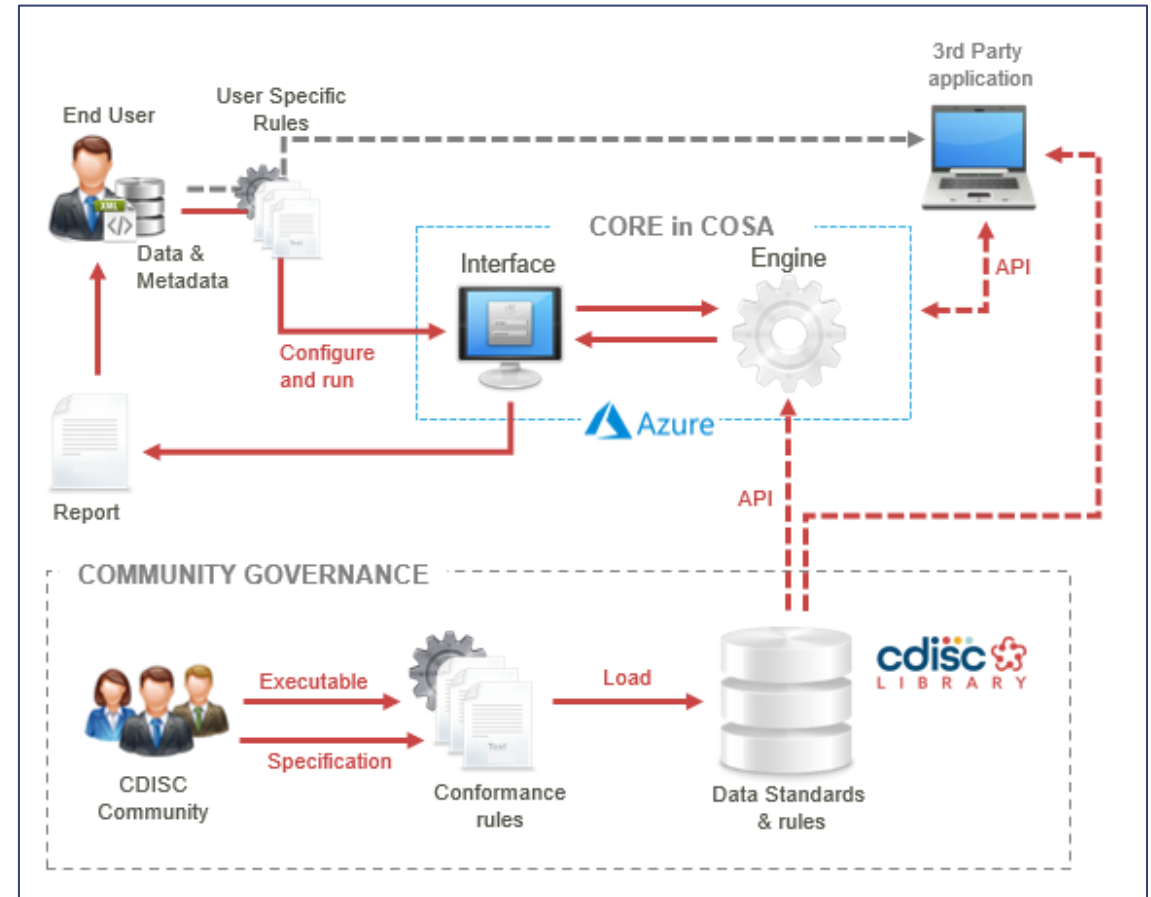
- R
  - CORE
  - admiral
-

# Money, Money, Money



## ➤ Example **CORE**

- Huge CDISC project for executable conformance rules
- Will become part of COSA (CDISC Open Source Alliance)
- Minimal Viable Product Q2 2022



<https://www.cdisc.org/core>

# Money, Money, Money



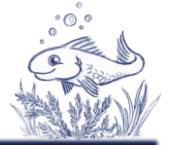
<https://roche-gsk.github.io/admiral>

- Example “**admiral**”
  - Roche-GSK collaboration
  - ADAM in R Asset Library
  - Planned as Open Source



# Money, Money, Money

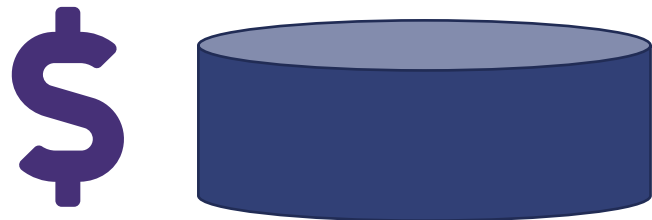
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## ➤ Development costs

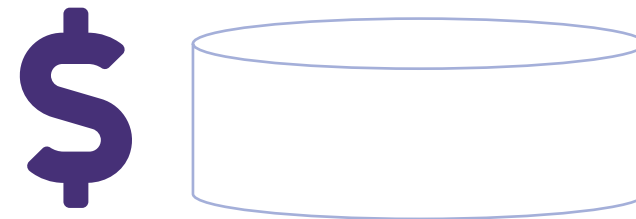
### Proprietary

- One time
- Per year/month/item



### Open Source

- None
- Own/contracted developer



# Money, Money, Money

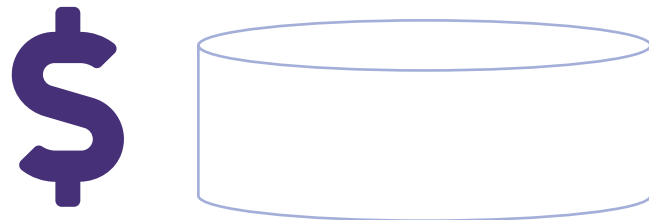
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## ➤ Validation costs

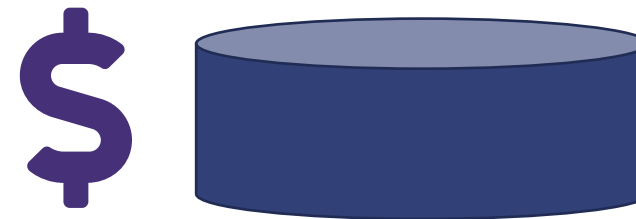
### Proprietary

- Included in price
- No transparency



### Open Source

- Maybe available, require execution
- Own/contracted validation



# Money, Money, Money

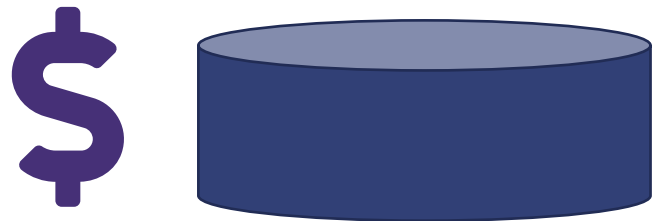
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## ➤ Environment setup

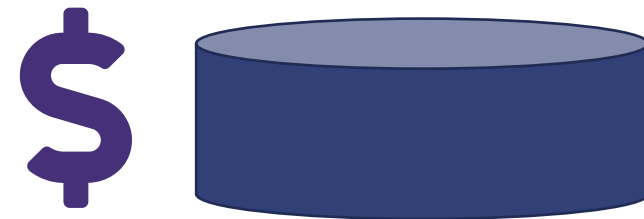
 Proprietary

- Own resources / possible to buy-support



 Open Source

- Own resources & knowledge



# Money, Money, Money

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- Environment setup - SAS vs. R
  - How many SAS experts needed to setup / maintain Server(s)?
  - How many R experts needed to setup / maintain Server(s)?

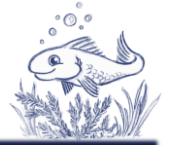
Expert  
availability

Expert  
costs



# Money, Money, Money

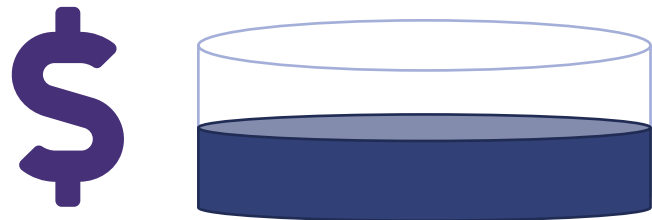
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## ➤ Maintenance costs

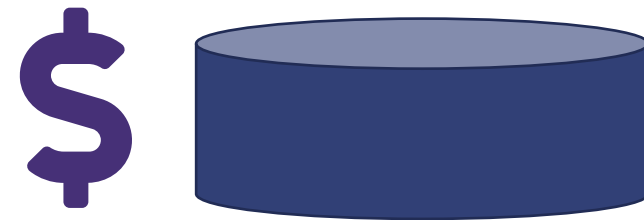
### Proprietary

- Maybe included
- Extra SLA costs



### Open Source

- Own/contracted developer



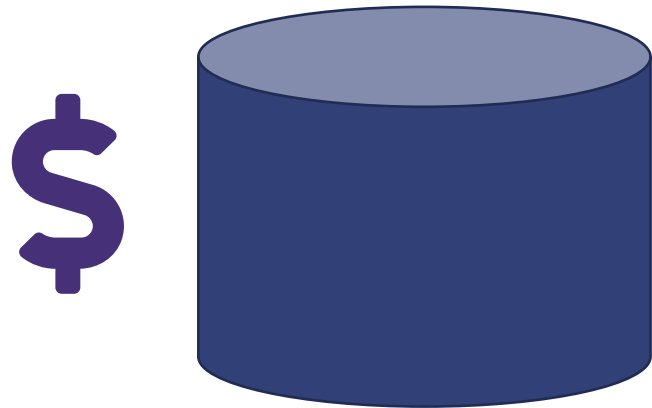
# Money, Money, Money



- Integration costs (Interfaces, APIs, Environment, ...)

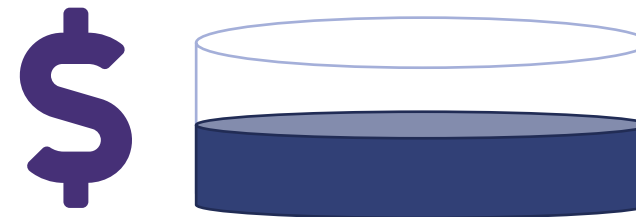
## Proprietary

- Monopoly, high dependency



## Open Source

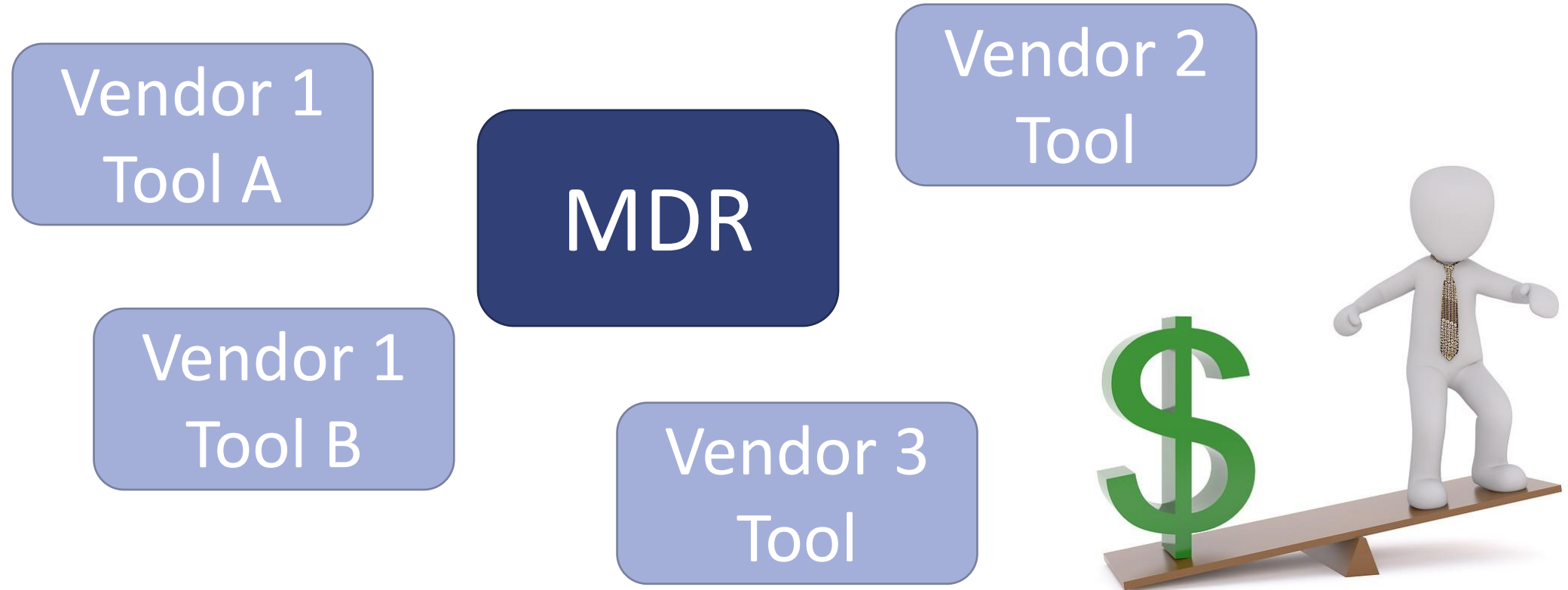
- Typically generic designs
- Adoption opportunities



# Money, Money, Money

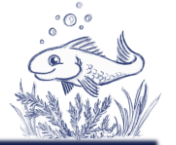


- Integration MDR (Metadata Repository)



# Money, Money, Money

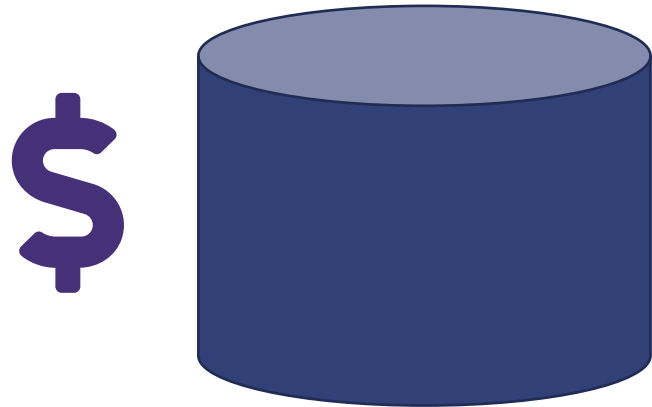
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- Enhancements - features / functionalities / APIs

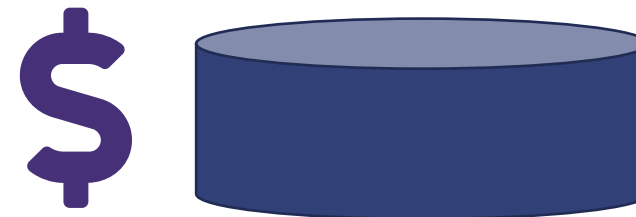
 Proprietary

- Monopoly, high dependency



 Open Source

- Community
- Own/contracted developer



# Money, Money, Money

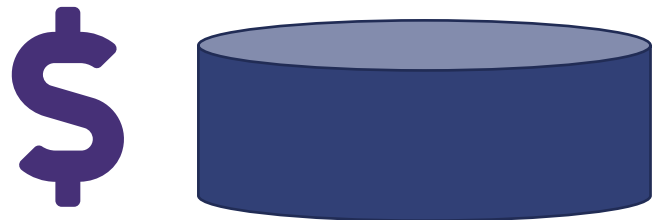
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## ➤ Training

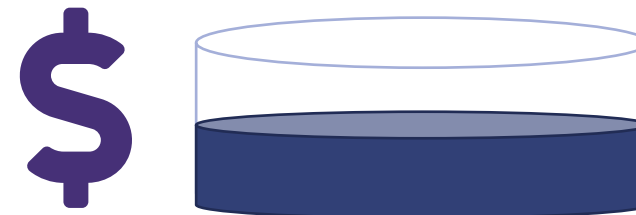
### Proprietary

- Vendor
- Own trainings



### Open Source

- Community
- Own trainings
- “Standard” savings



# Money, Money, Money

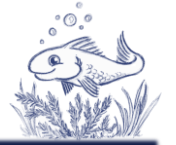
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- Development
  - Validation
  - Environment
  - Maintenance
  - Integration
  - Enhancements
  - Training
-

# Money, Money, Money

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- Development
- Validation
- Environment
- Maintenance
- Integration
- Enhancements
- Training



High cost  
dependency

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# Money, Money, Money

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- Meaning for open source
  - Early contribution in planning development
  - Save later maintenance & integration



CORE - Open Source Project

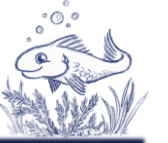


CDISC 360° Project

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# Money, Money, Money

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- Proprietary Software



# Money, Money, Money

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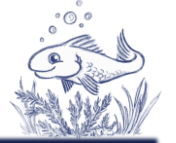


- Open Source Software



# Fairness & More

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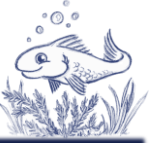


- Fairness (proprietary software)
  - High dependency on vendor
  - Avoid small/innovative ones due to risk of “sell/out of business”
- Prices / Processes (e.g. reuse anonymized data)
  - Monopoly
  - Process-dependency
- No Transparency
  - E.g. different companies -> same request, pay twice (interfaces)



# Fairness & More

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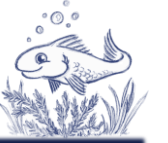


- Fairness (open software)
  - Expecting free-time investments
  - Expecting quality at low cost
  - Expecting OTHERs to do



# Fairness & More

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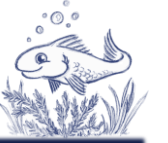


- Join Open Source Project
- Create Open Source Projects
- Use Open Source



# Fairness & More

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- Open Source
  - Findable
  - Accessible
  - Interoperable
  - Reusable

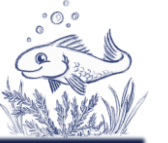


Open Source is FAIRest!

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# Fairness & More

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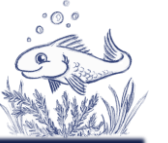


- Main advantage of Open Source

Collaboration!



# Fairness & More



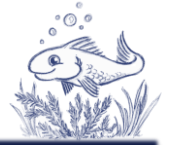
- Common understanding
- Common processes
- Common tools & interfaces
  
- Open discussions throughout industry
- Going the next step -> implementation
- Standard datasets not sufficient
- Authority acceptance

Collaboration!



# Fairness & More

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➤ Think about cost

Environment



SLA

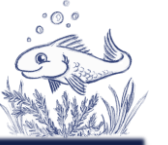
Interfaces

Initial/Monthly Costs

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# Fairness & More

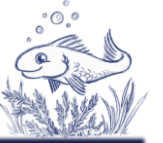
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- Total Cost for Proprietary
  - Costs if done as Open Source (on your own)
  - Costs Open Source Collaboration
-

# Fairness & More

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➤ Think about opportunities

Feedback



Common SOPs /  
Best practices ...

Connecting Tools



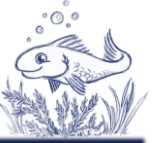
Enhancements

Authority Acceptance

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# Fairness & More

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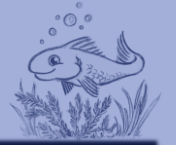


- Open Source is THE solution
- More initiatives
- More projects
- Huge interest



# Questions?

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