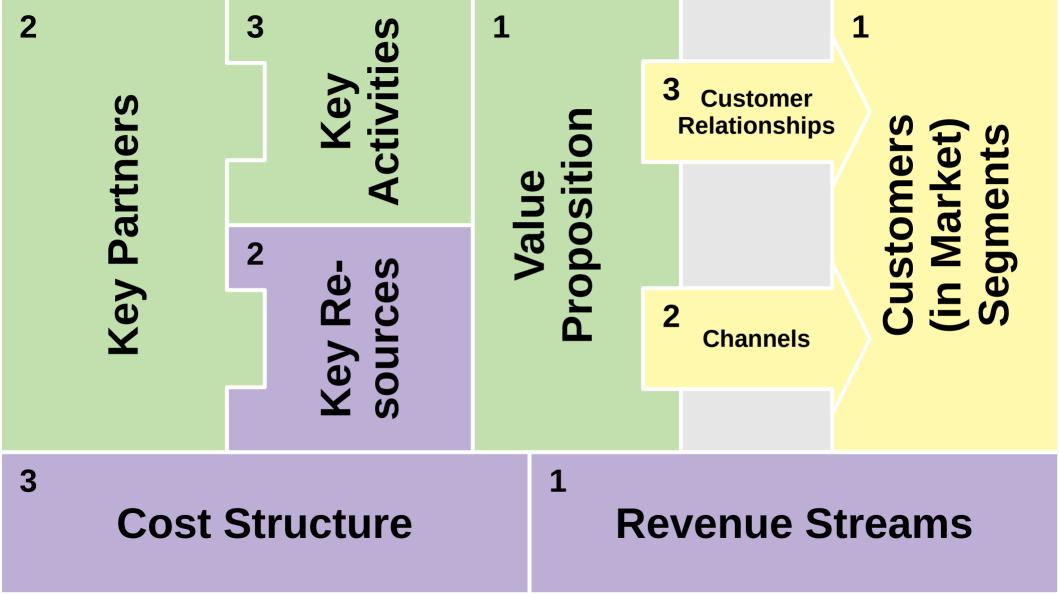
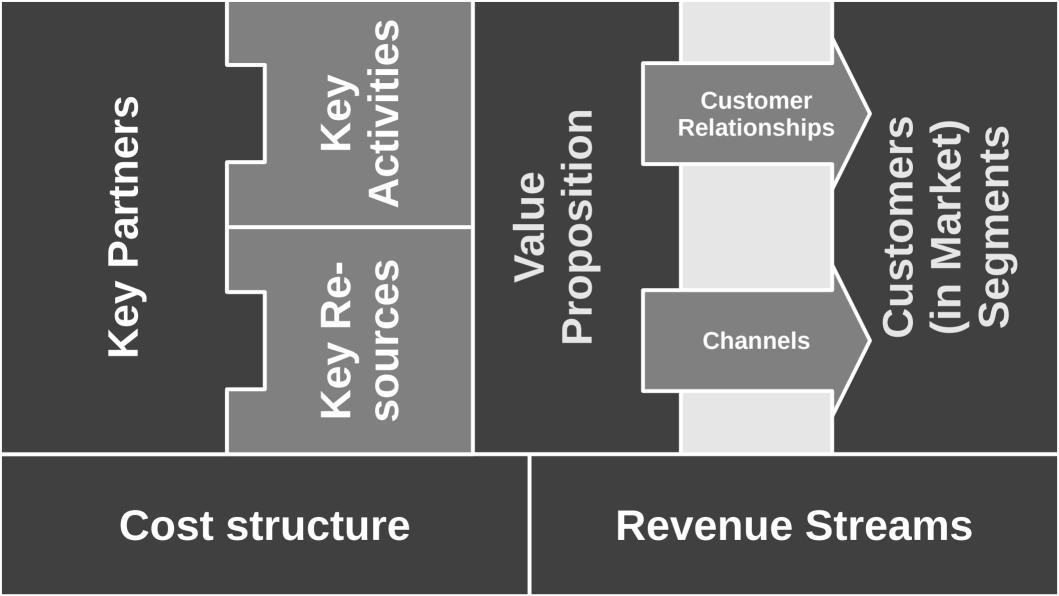
A01

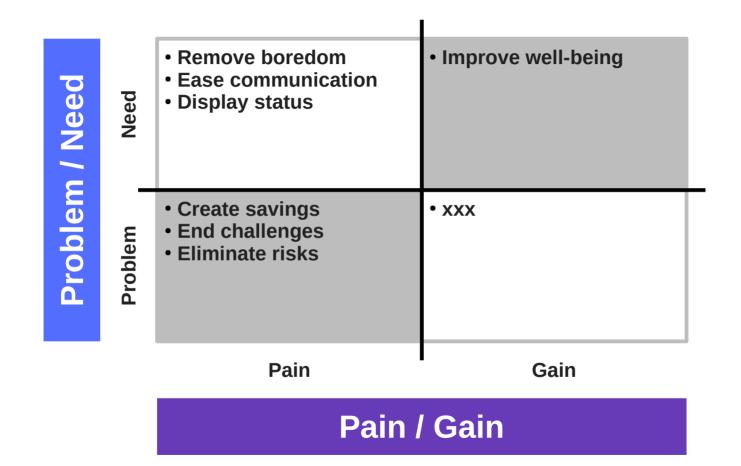
Course Introduction





A03

The Business Model Canvas





Key

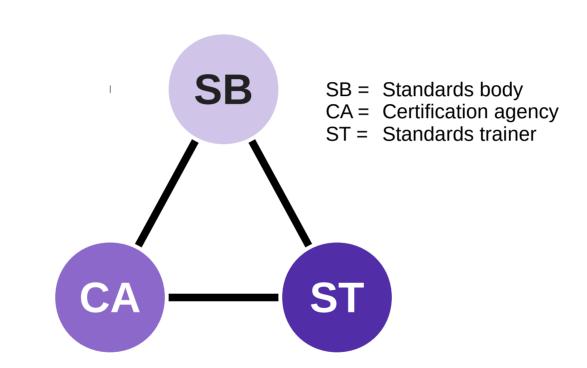
Value Propositi Customer Relationships

Customers
(in Market)
Segments

Cost Structure

re Revenue Streams

The Software Industry



IBM

Services

Applications

Operating System

Hardware

DEC

Services

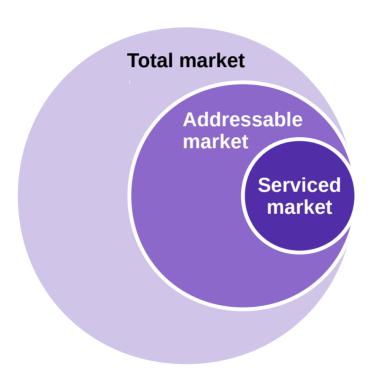
Applications

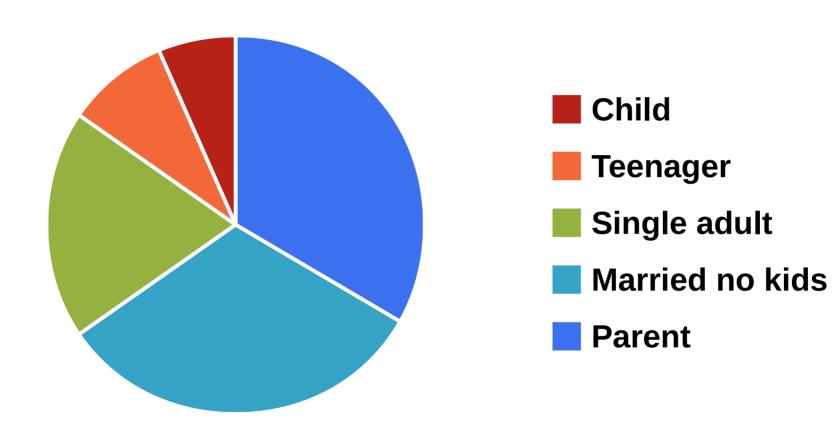
Operating System

Hardware

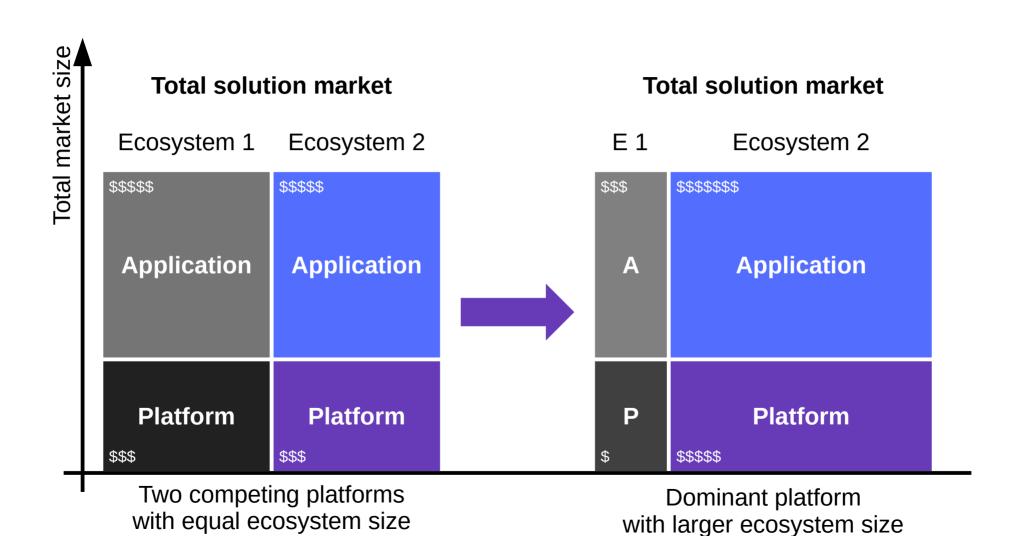
Services	IBM	Accenture	Tata	
Application	Microsoft Word	GIMP	Twitter	
Operating System	Windows	Linux	OS X	
Hardware	IBM	Dell	Samsung	

	AWS	Google	
SaaS		Apps	
PaaS	Platform Services	Platform Services	
laaS	Operating System	Operating System	
	Hardware	Hardware	





	Healthcare	Banking	Insurance	Energy	Auromomine.	
CRM						
SRM						
ERP						
HRM						
•••						



Software Products

Basic product

Core product (intellectual property)

Software

- Core software
- Additional software (extensions + plugins, tools and utilities, integrations)

Complementary materials

- Documentation
- Training materials

Self-help services

- Forums, mailing lists
- Help and chat agents
- On-line tutorials

Pricing of usage rights

- Quantity: User, machine, time, ...
- Duration: Perpetual, time-limited, ...
- Structured: Initial license fee, regular subscription fee

Guarantees ("insurance")

- · Fitness for use
- Certification

Pricing of guarantees

- · By damage: Loss of business, fines received
- Structured: Levels / bands, formula

Support services

- Hot-line support
- On-site servicing

Pricing of support services (SLAs)

- By availability: Incident-based, 9x5, 24x7
- · By quality: First-level, second-level, third-level

Training

- In-house training
- Off-site training

Pricing of training

- Fixed fee
- Per participating person

Consulting

- · Technical implementation services
- Strategic solution consulting

Pricing of consulting

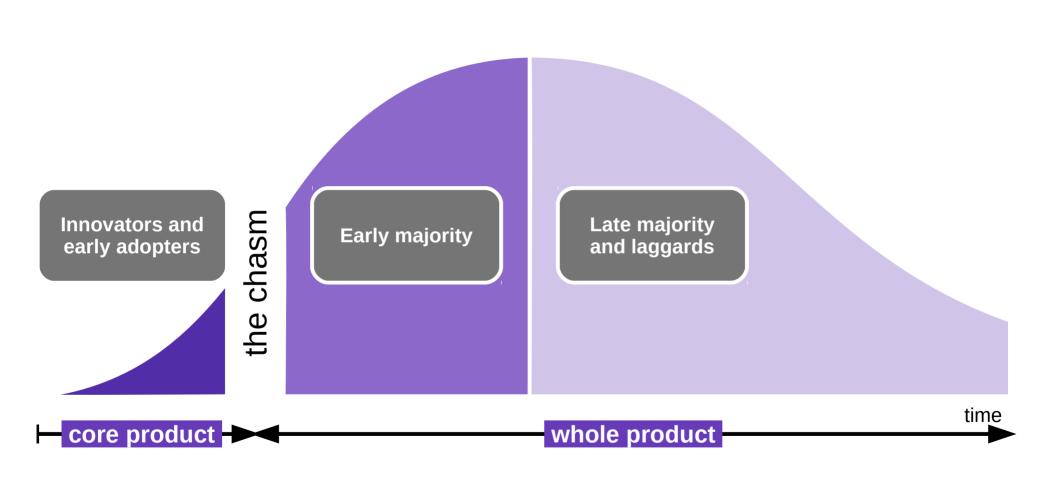
- Fixed fee
- · Time and materials

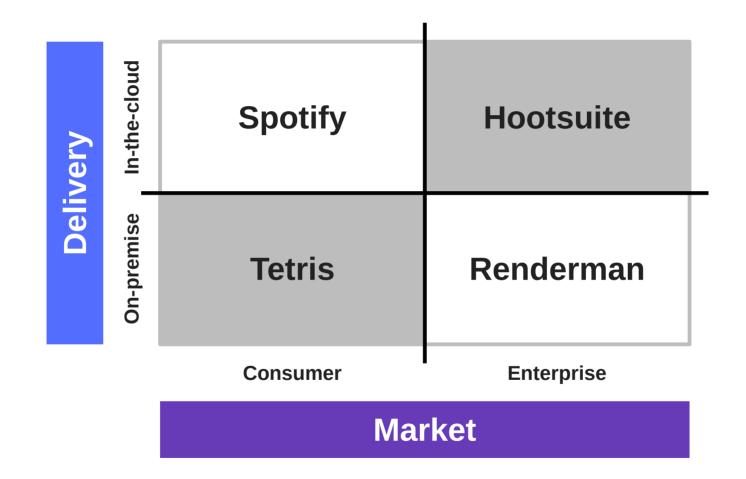
Operations

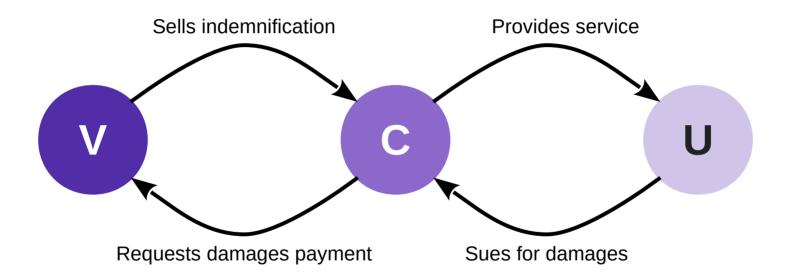
• Provision of SaaS (managed service)

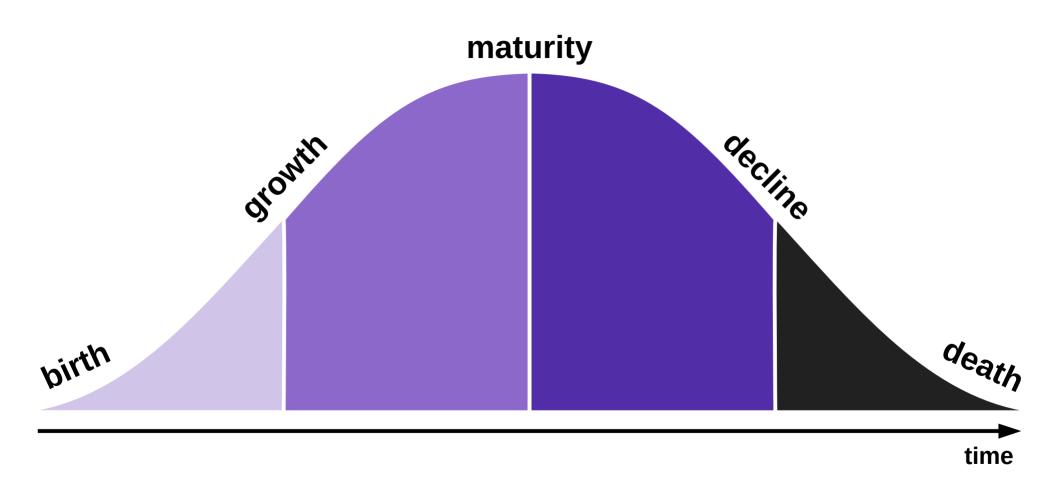
Pricing of operations

- Quantity: Users, resources, ...
- Duration: Always time-limited
- Structured: Set-up, subscription

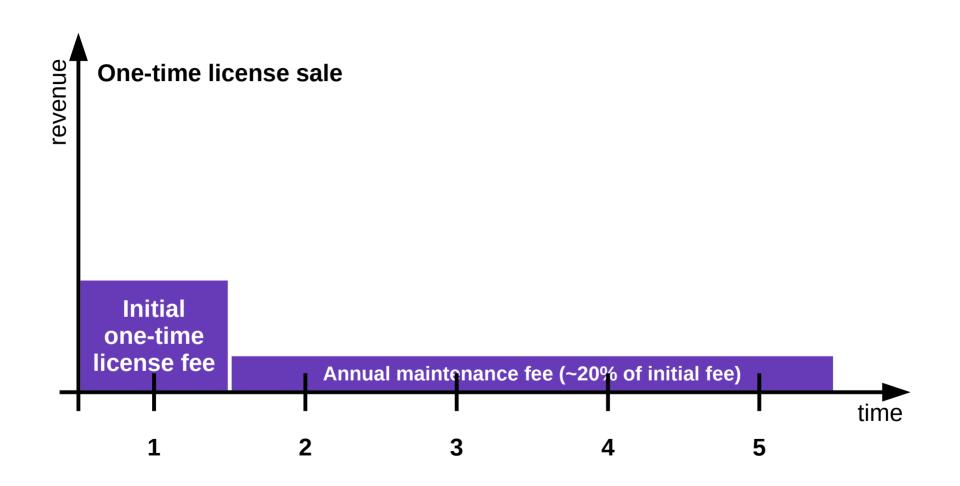


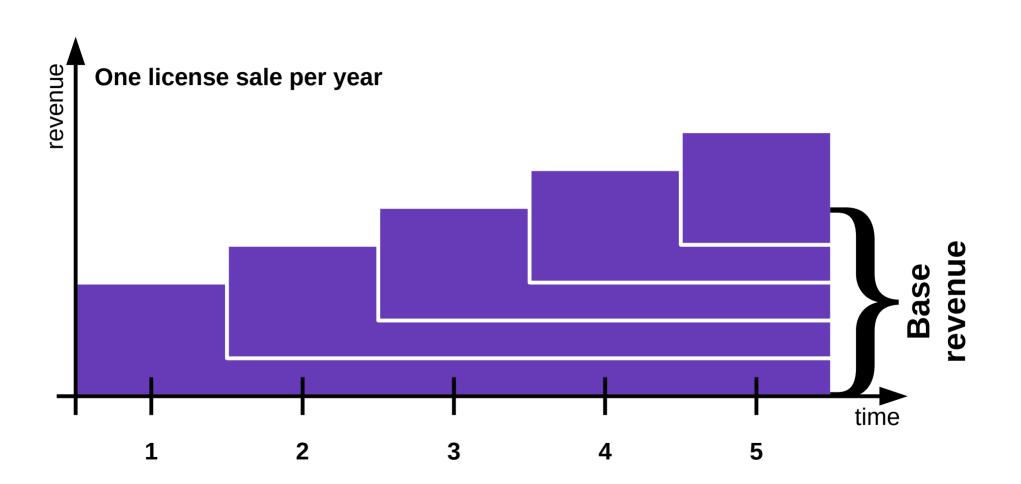


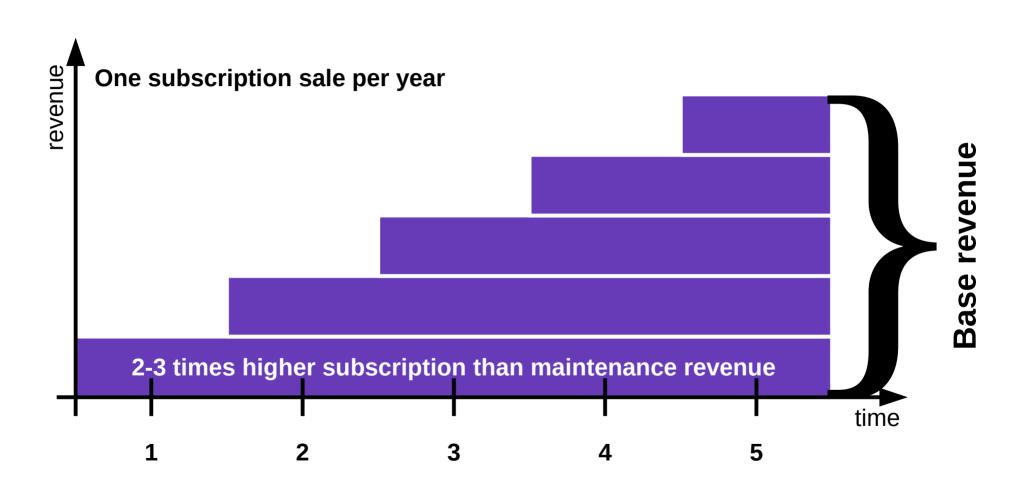


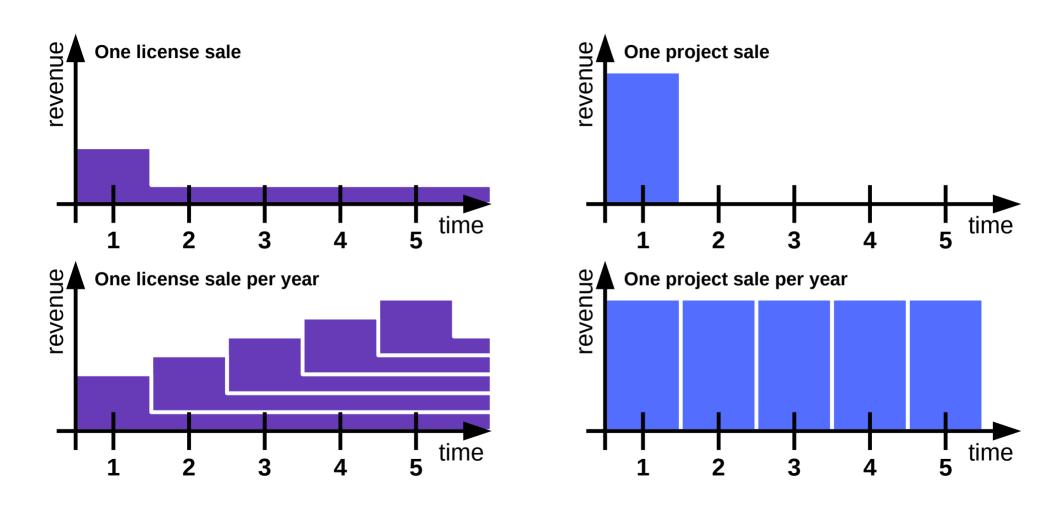


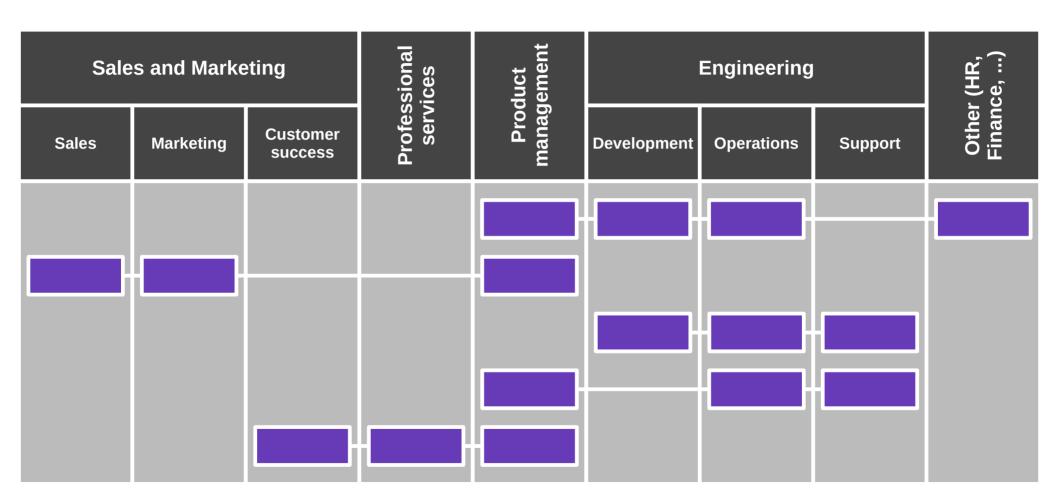
Software Vendors

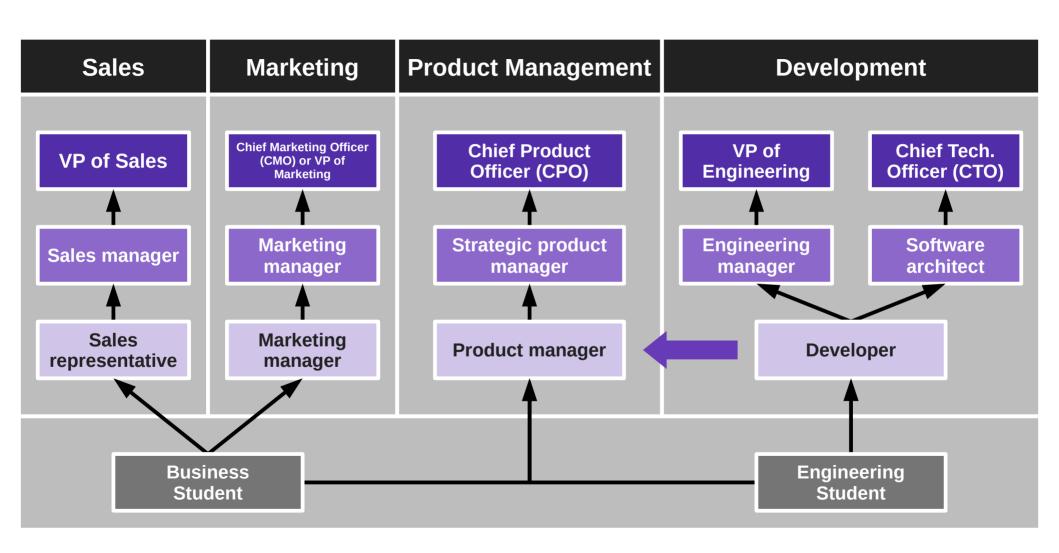


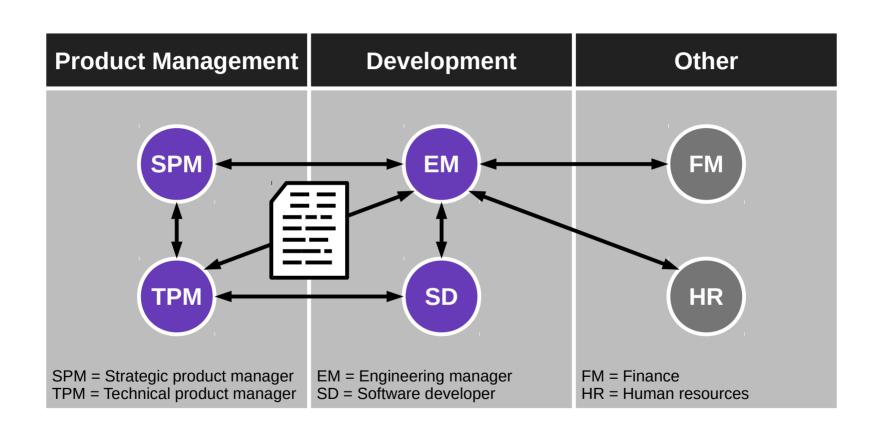


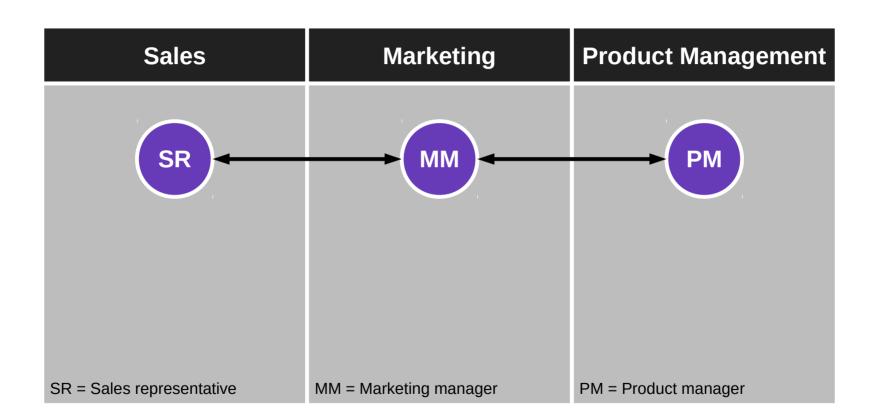


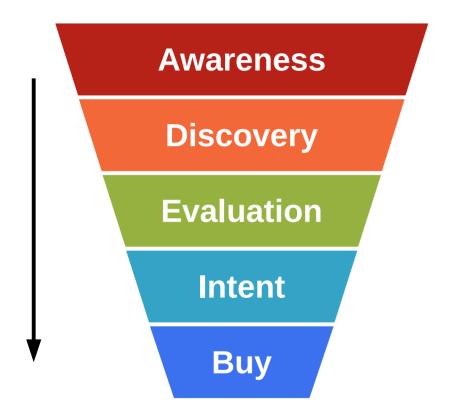


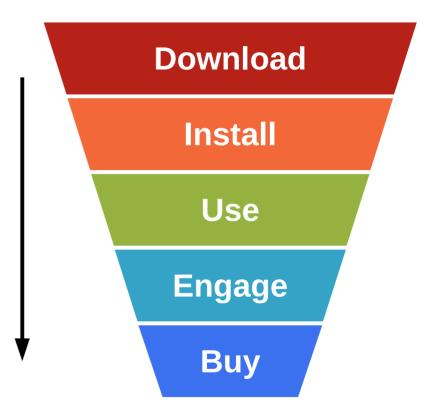


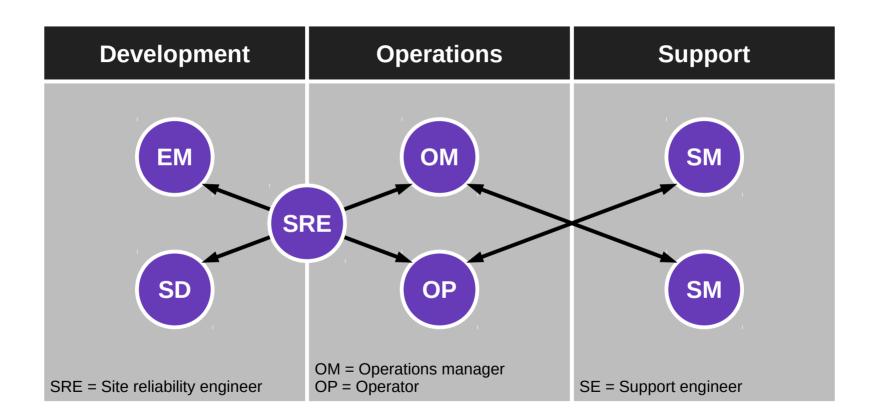


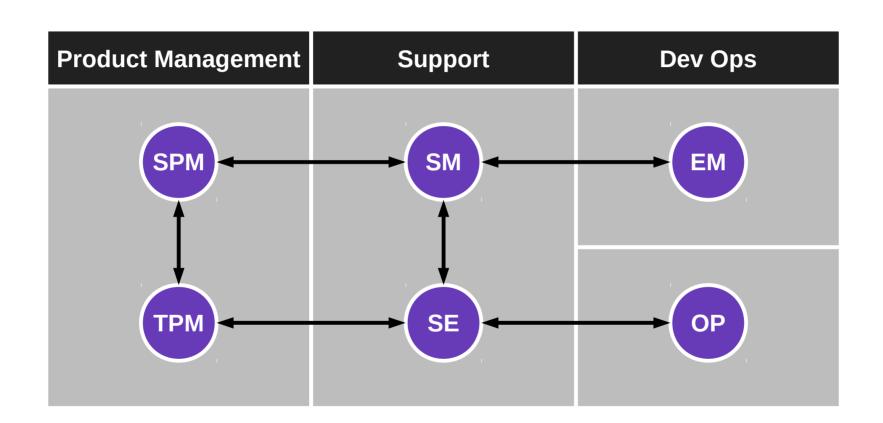


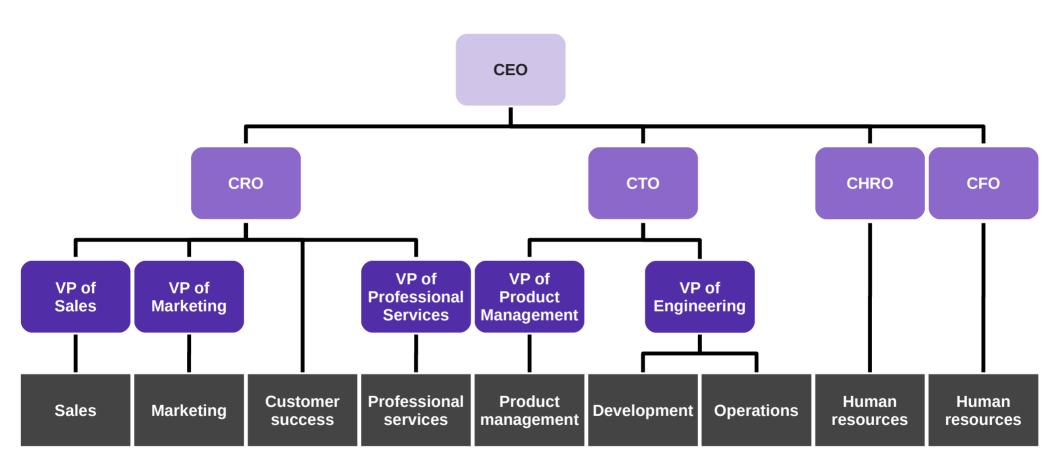




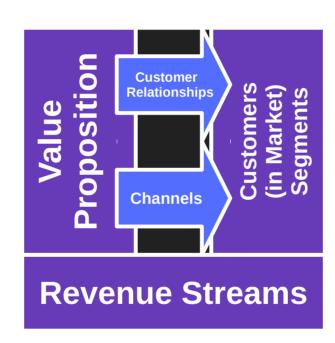


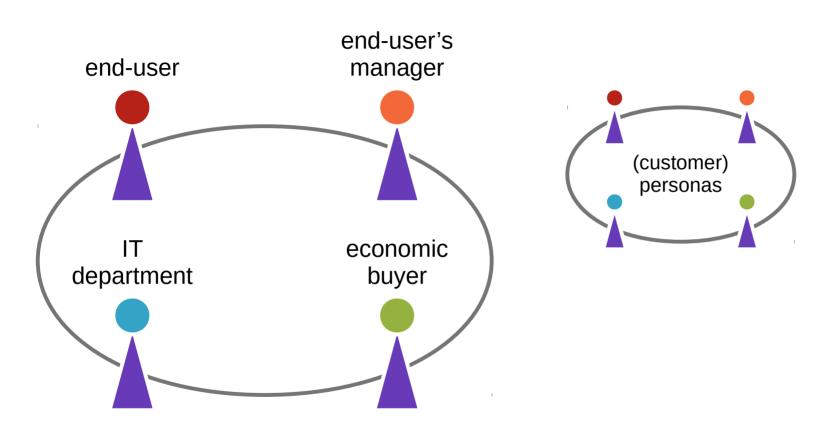






Business Models





Customer = user (same legal entity), and economic buyer = end-user



Customer = user (same legal entity), but economic buyer is different from end-user

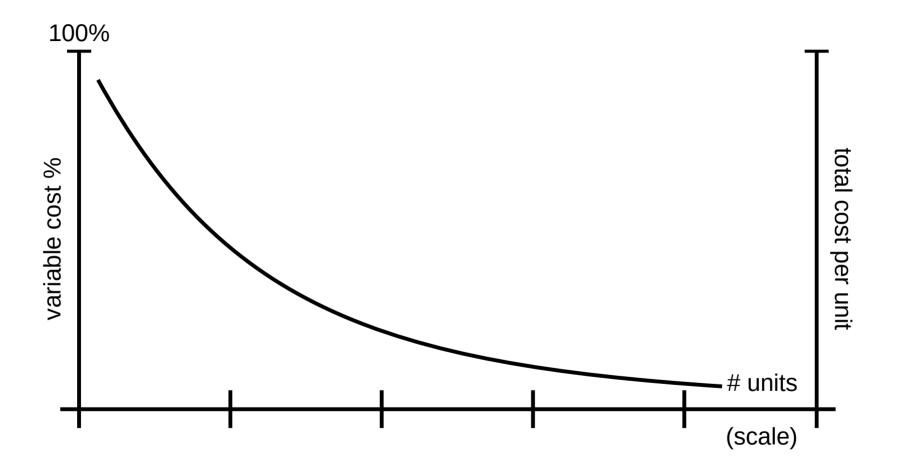


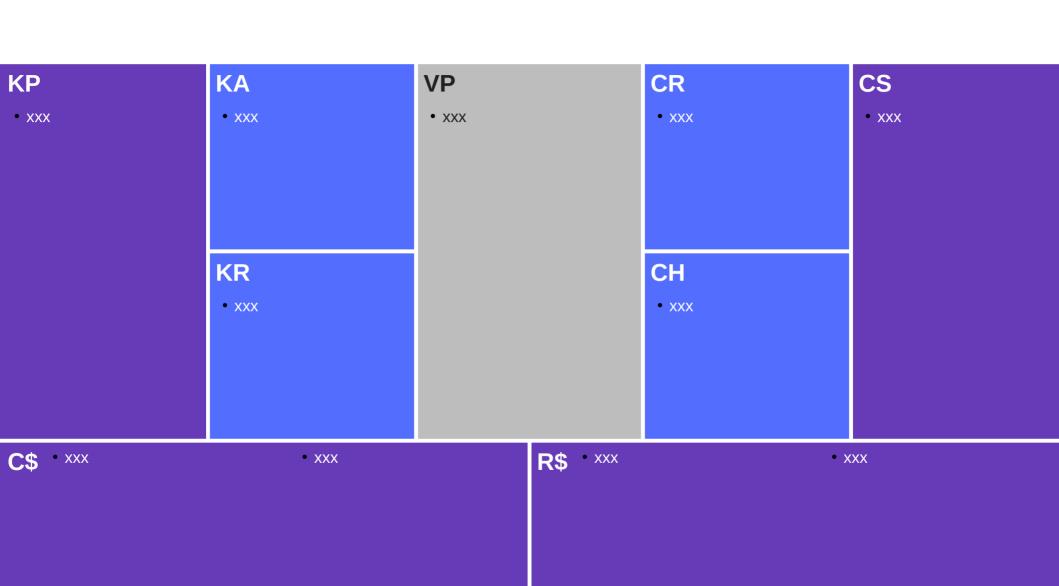
Customer



"User", i.e. "the product"

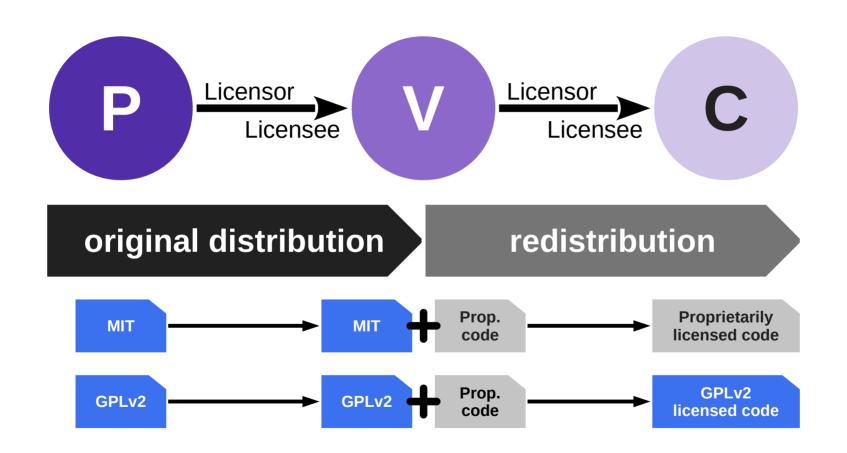


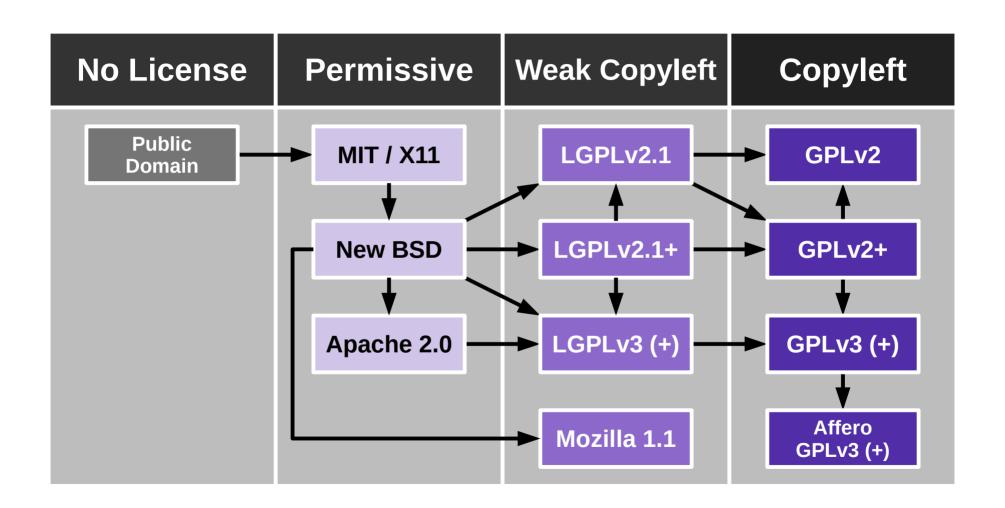


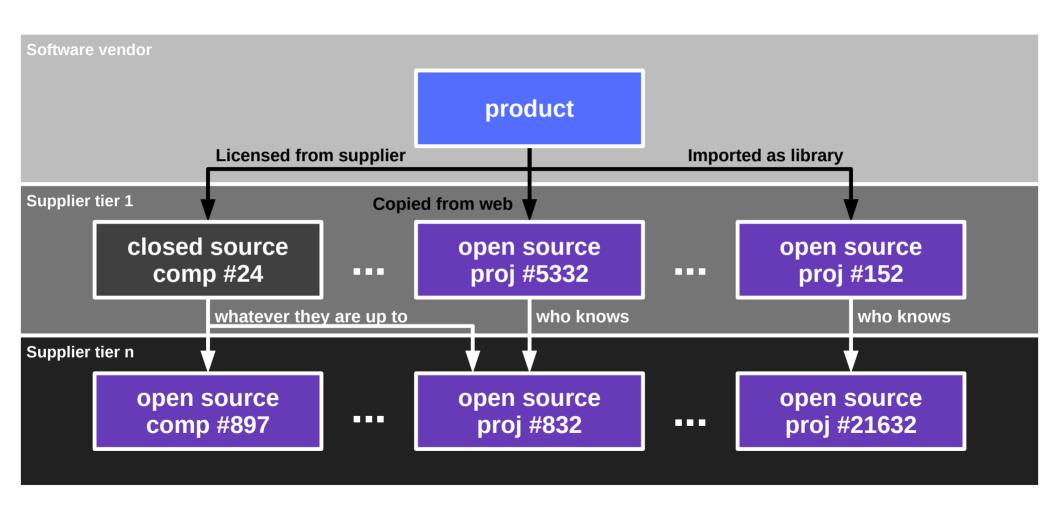


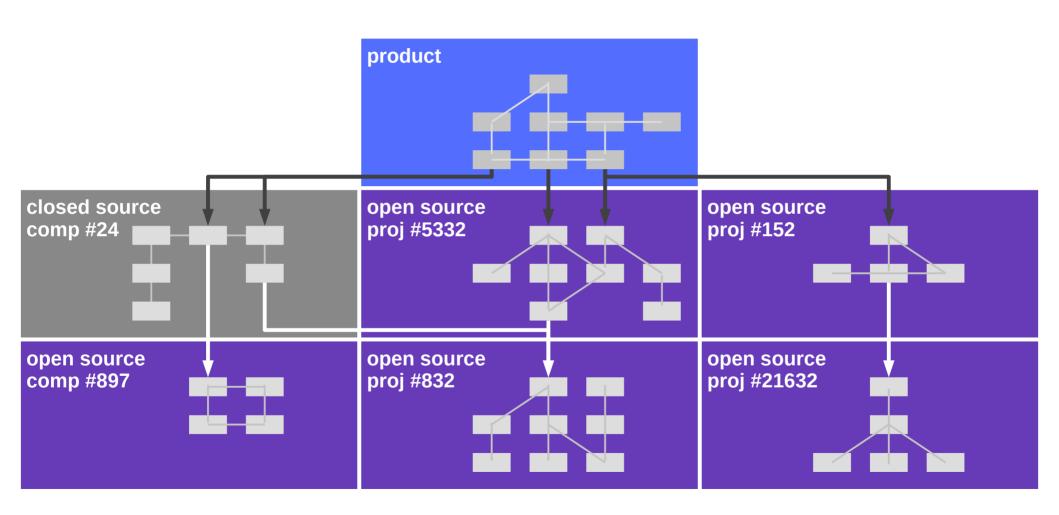
C01

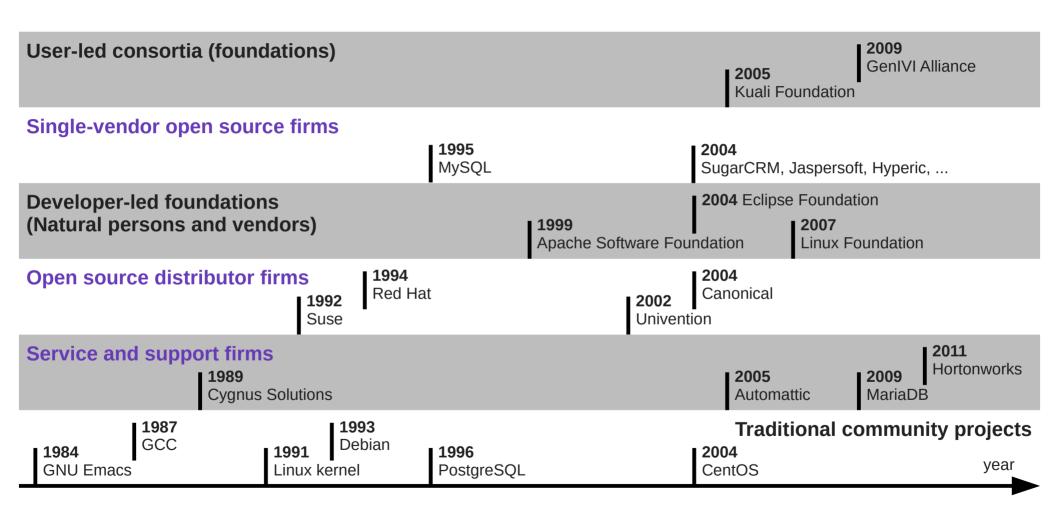
Open Source Software

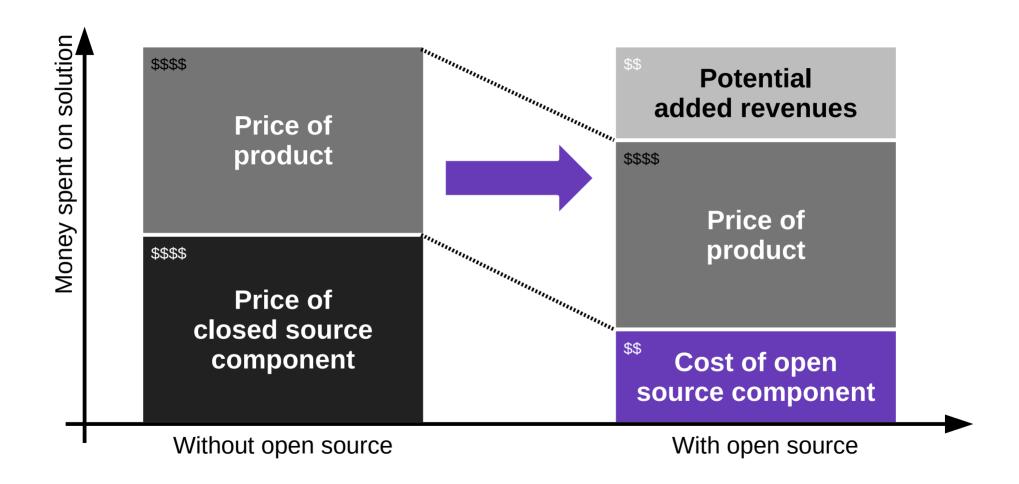


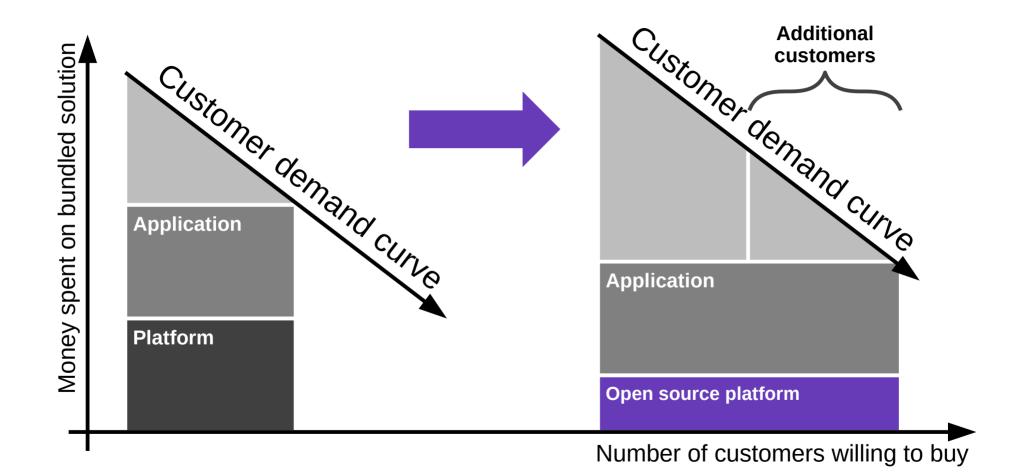


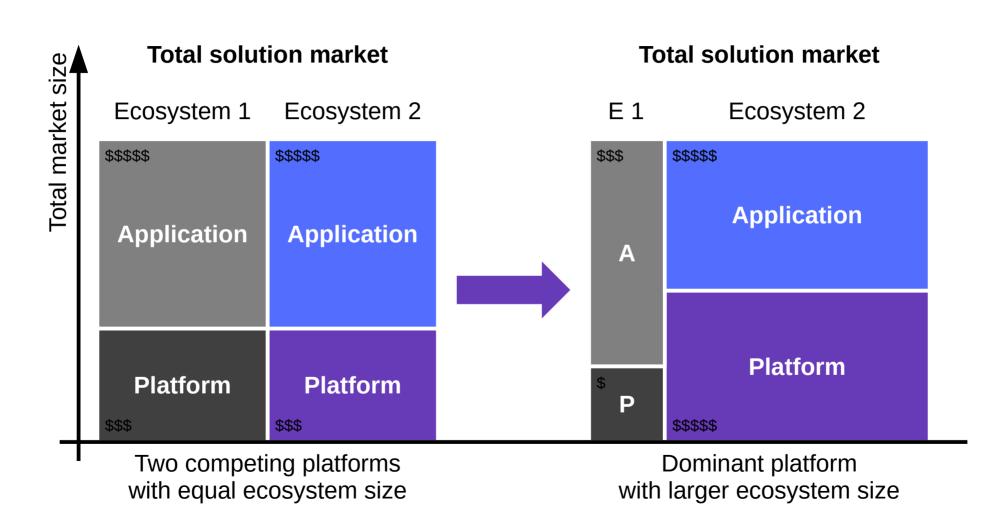


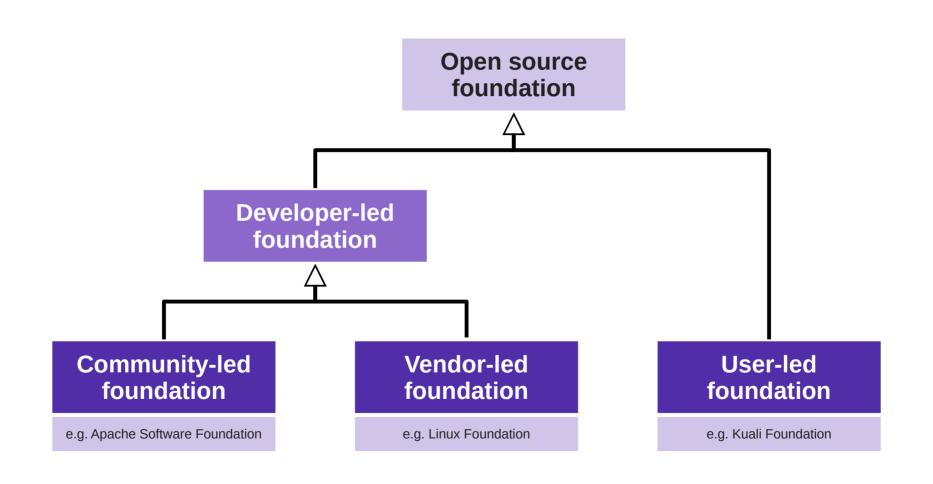






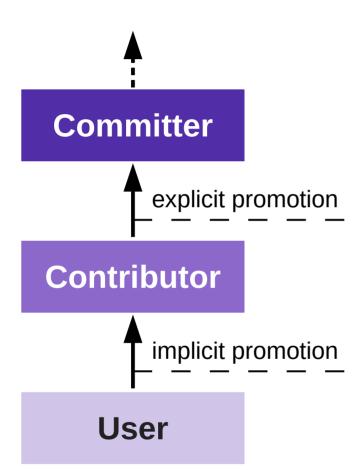


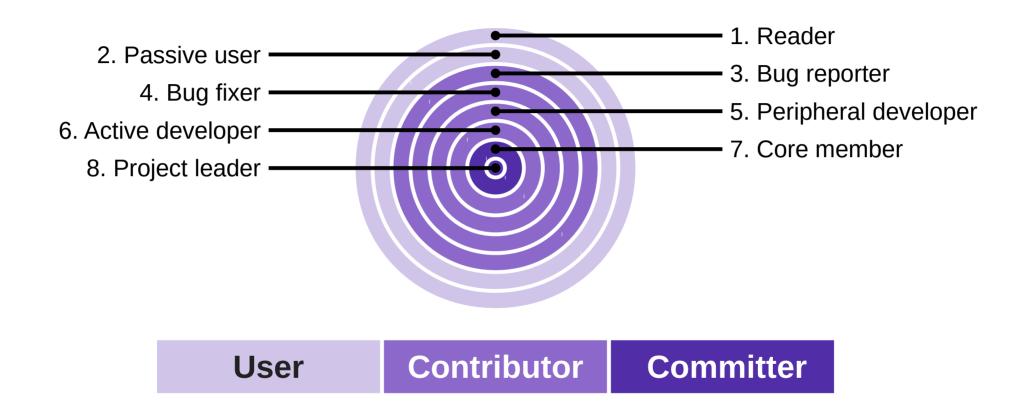


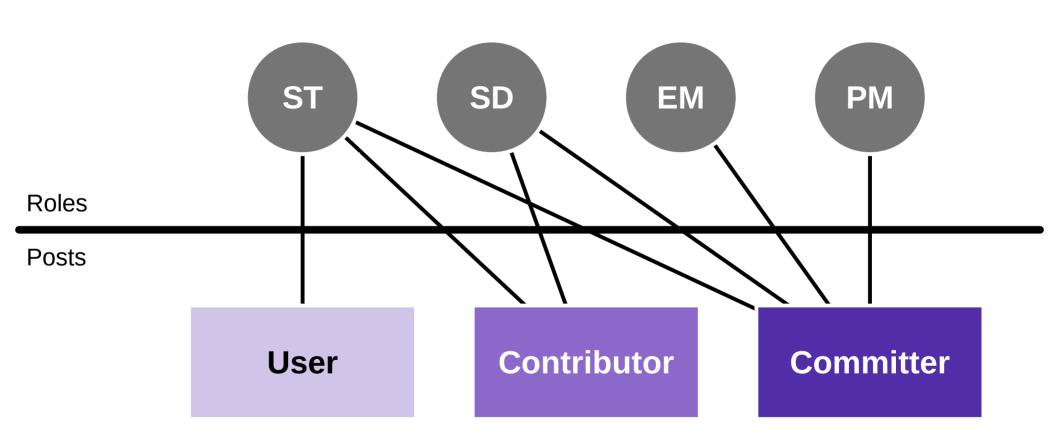


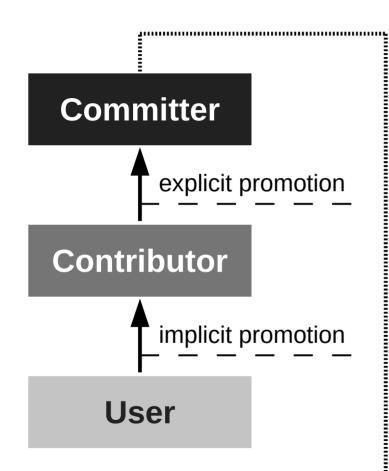
C02

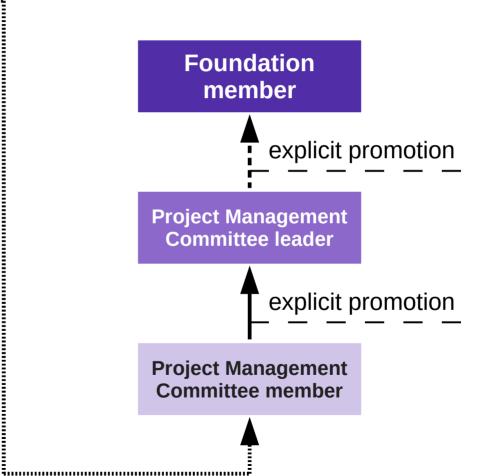
Open Source Projects

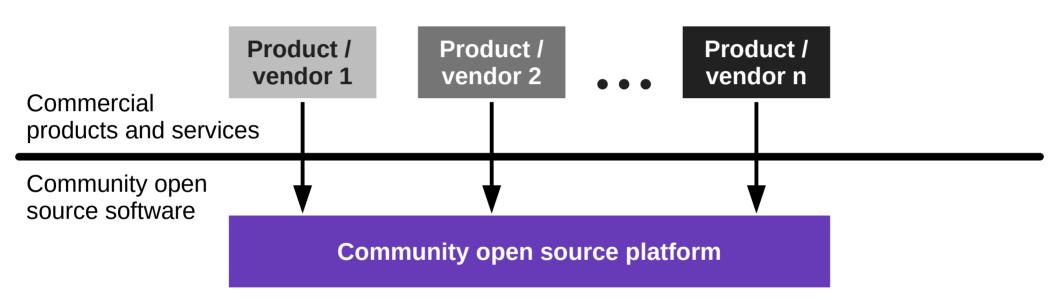






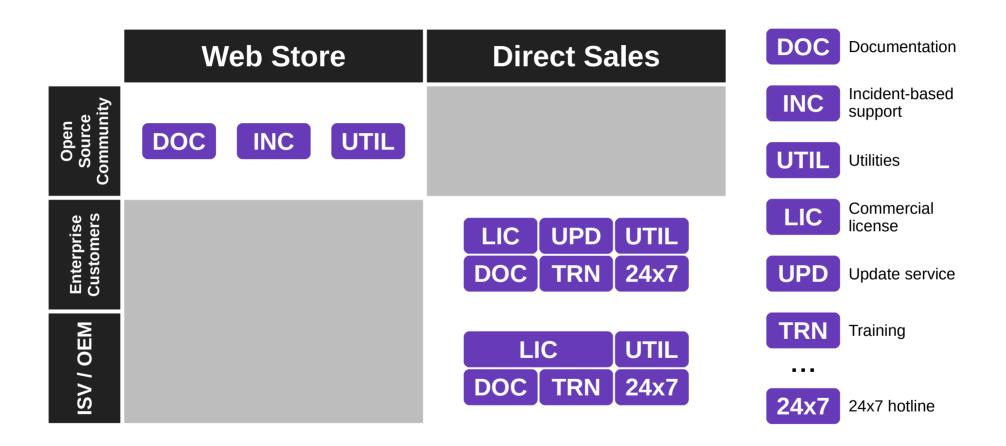


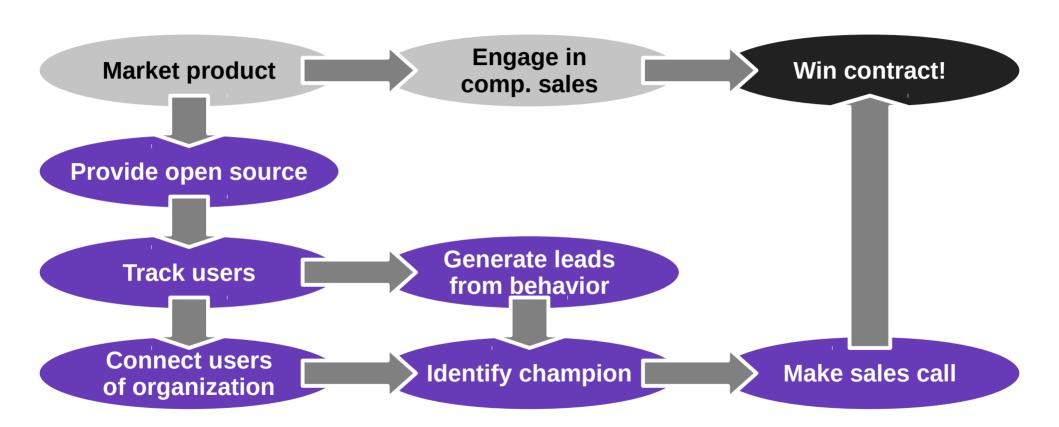




D01

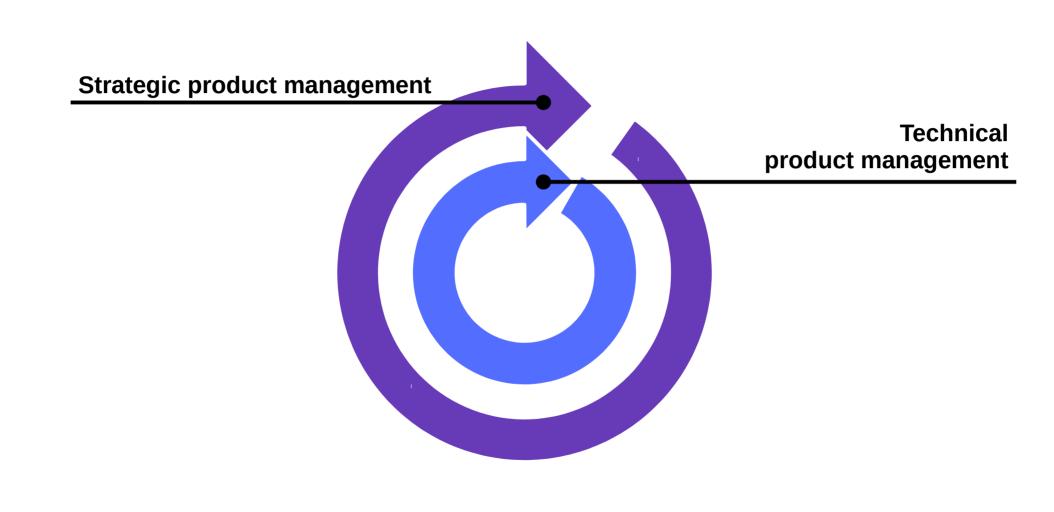
Commercial Open Source



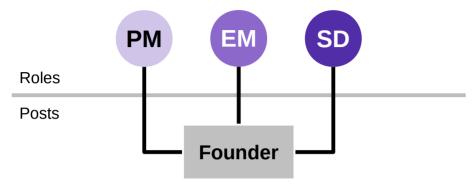


D02

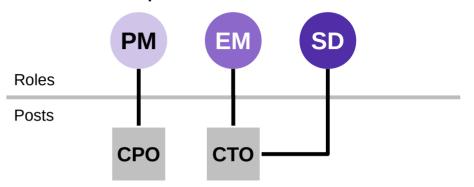
Product Strategies



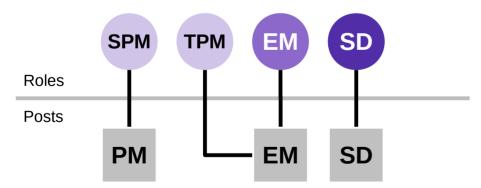
Solo entrepreneur



Team-based startup



Mature vendor



PM = Product manager (strategic + technical)

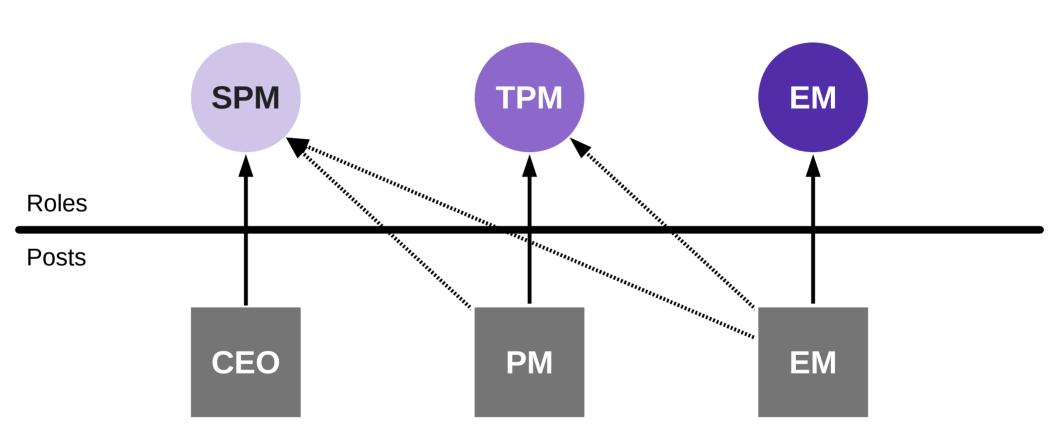
SPM = Strategic product manager TPM = Technical product manager

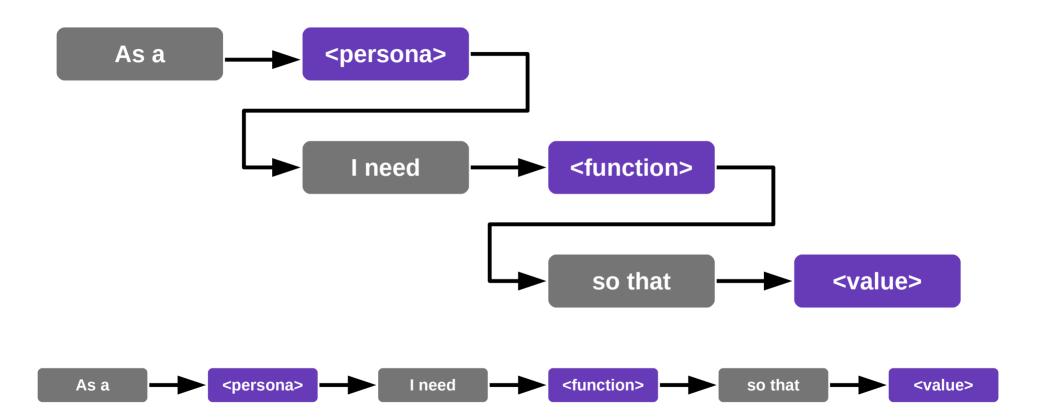
CPO = Chief Product Officer

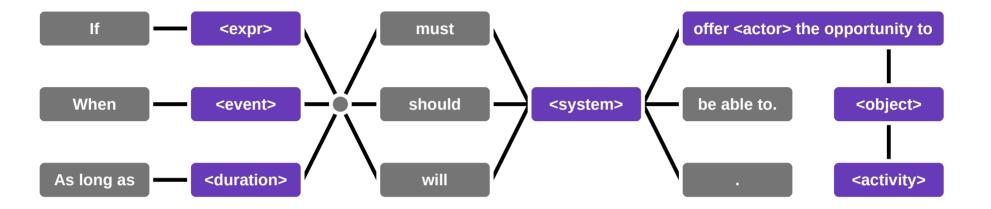
EM = Engineering manager VPE = VP of engineering

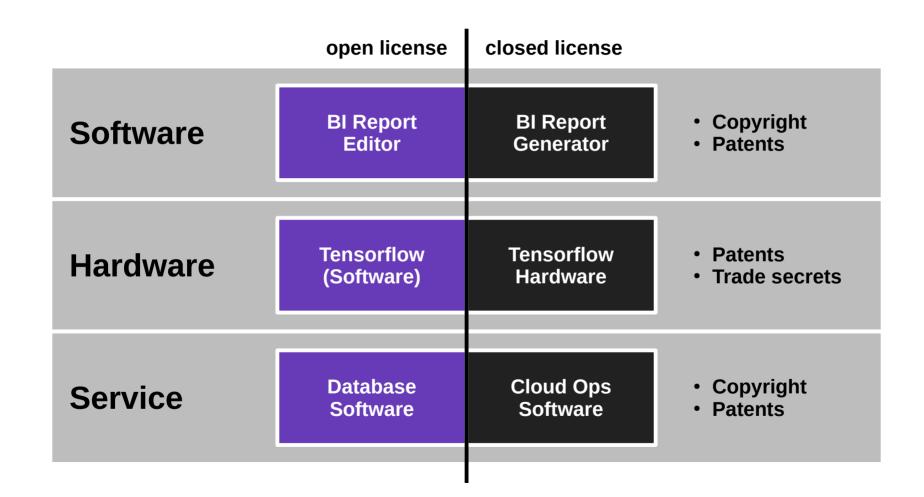
CTO = Chief Technology Officer

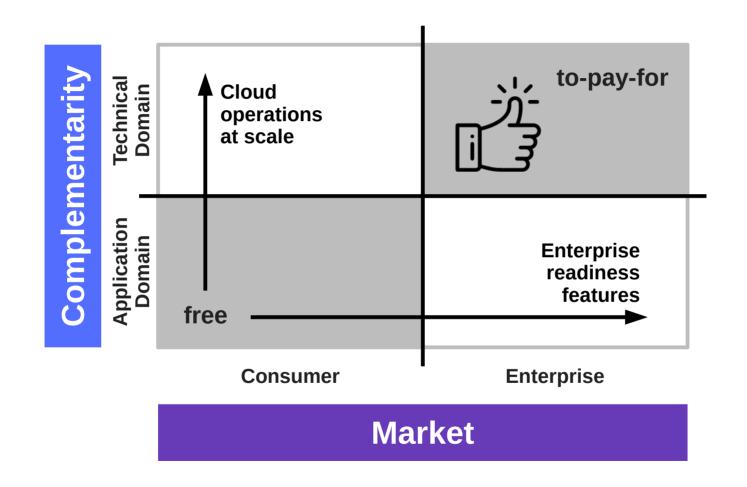
SD = Software developer

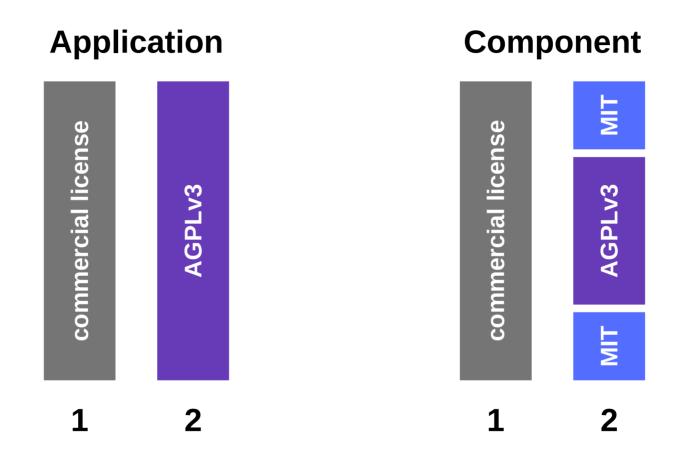


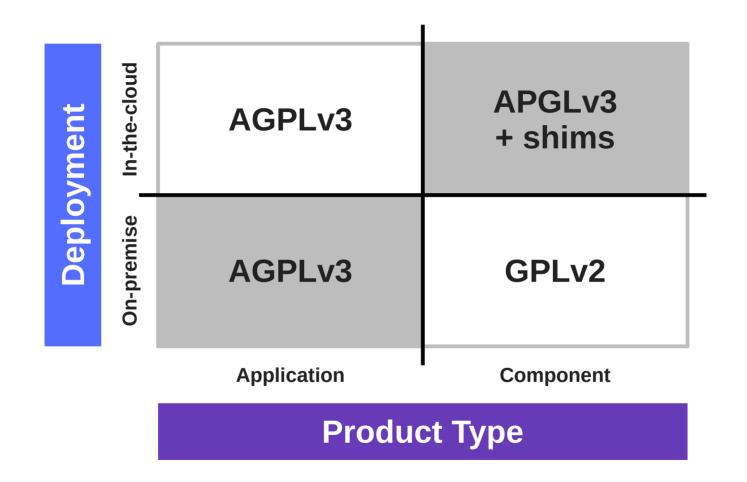


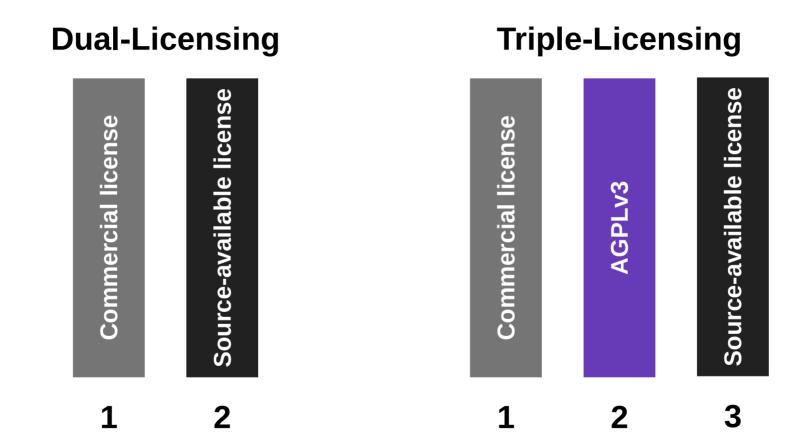


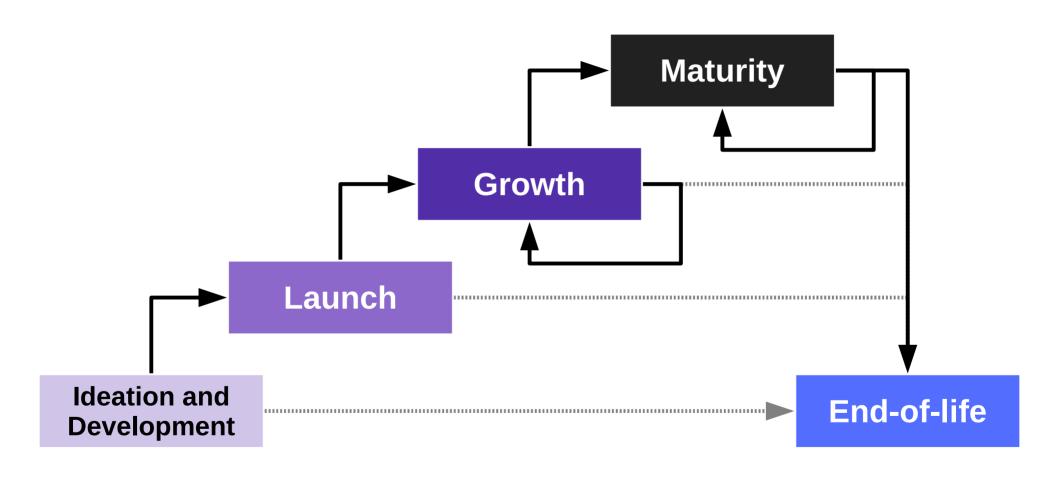






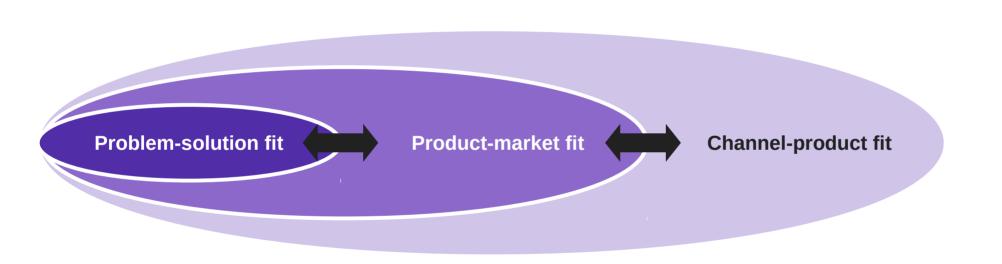


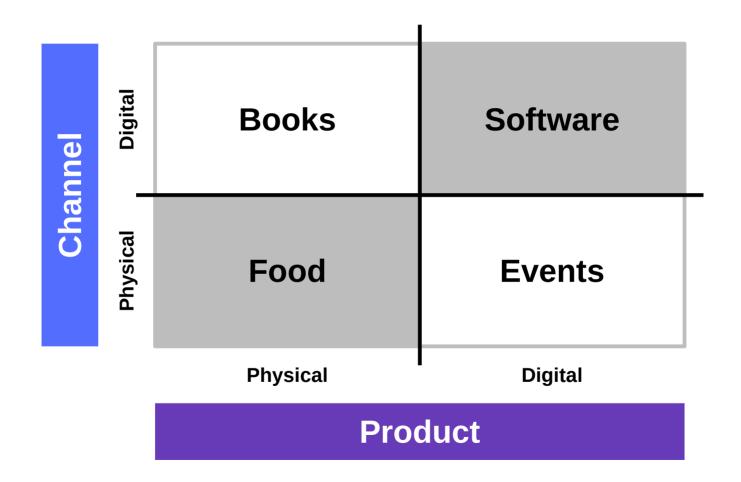




D01

Software Startups









High

Low

Industrial research lab

(e.g. cure for cancer)

University research lab

(e.g. the internet)

Product line organizations

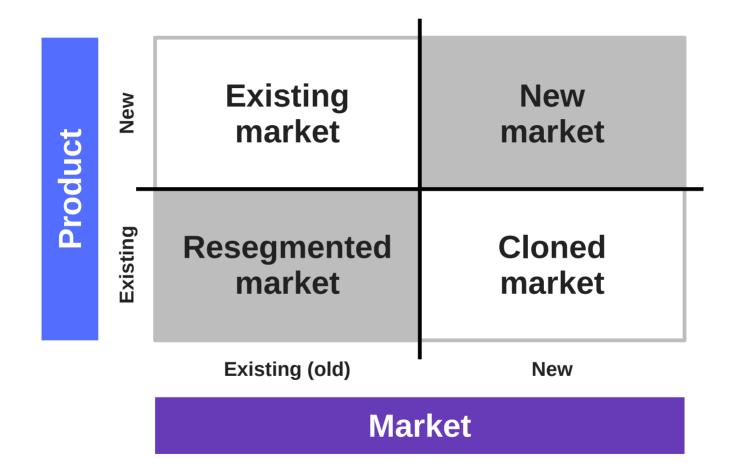
(e.g. another sneaker)

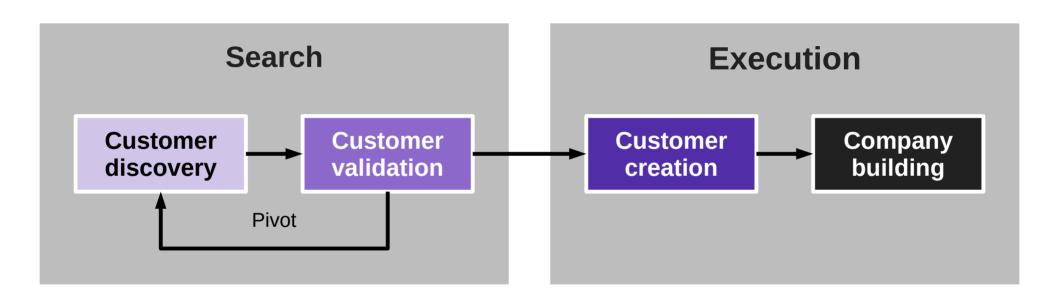
Independent entrepreneurs

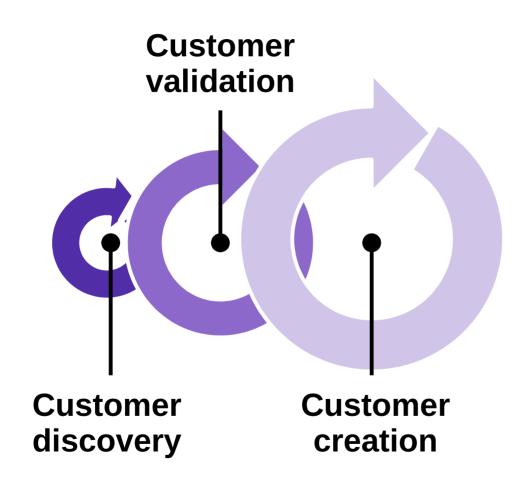
(e.g. mobile phone for the elderly)

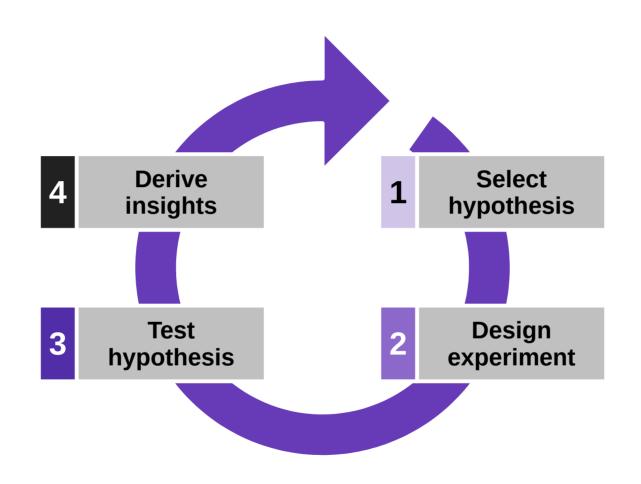
Low High

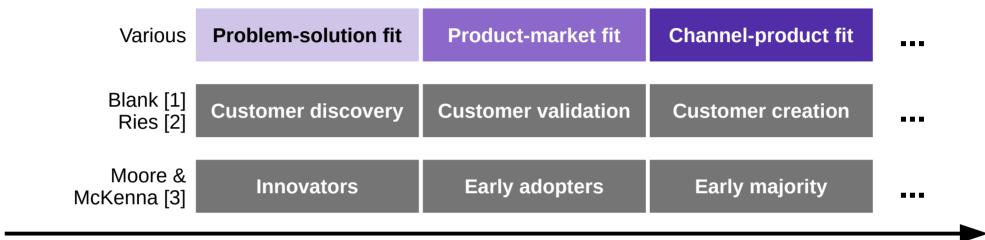
Customer / market risk









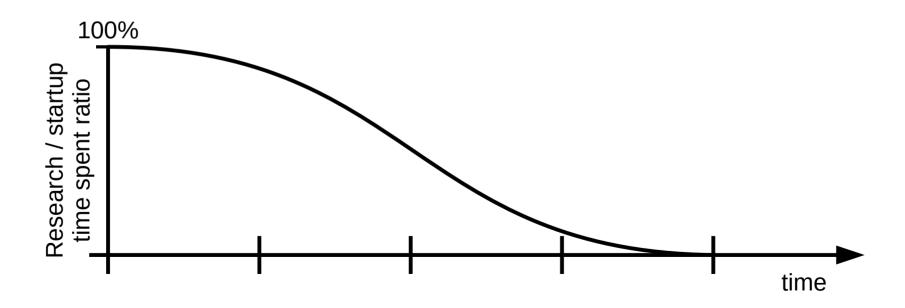


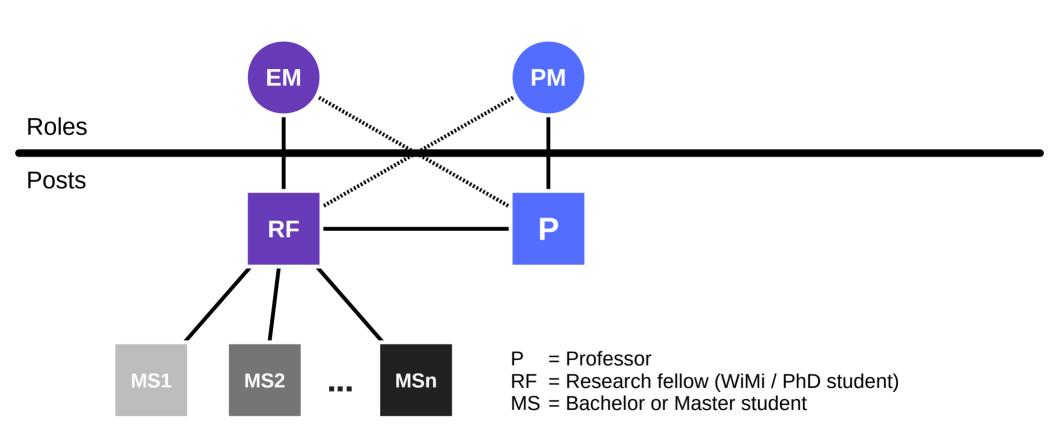
- [1] Blank, S. (2005). Four steps to the epiphany.
- [2] Ries, E. (2011). The lean startup.
- [3] Moore, G. A., & McKenna, R. (1999). Crossing the chasm.

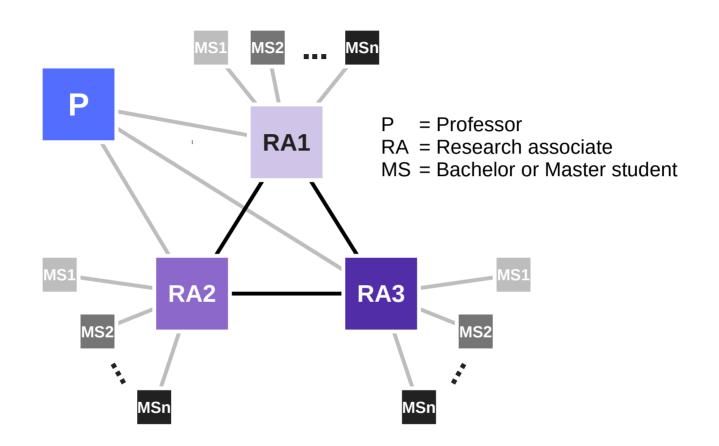
time

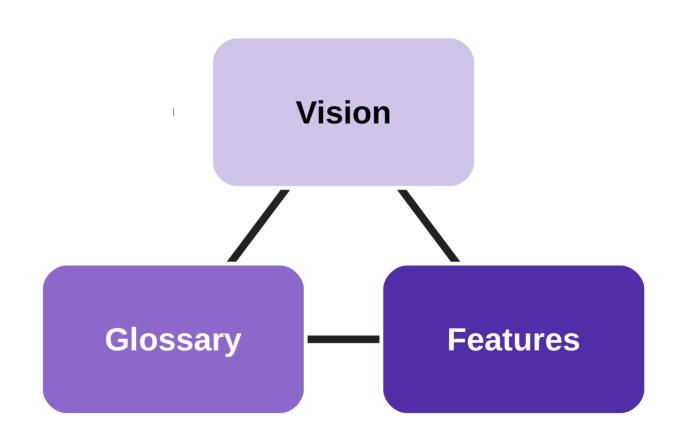
D02

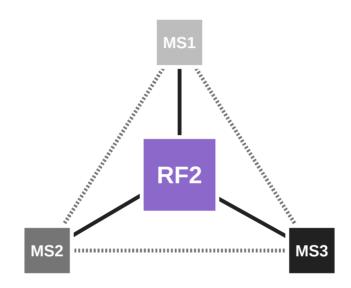
Research vs. Startup

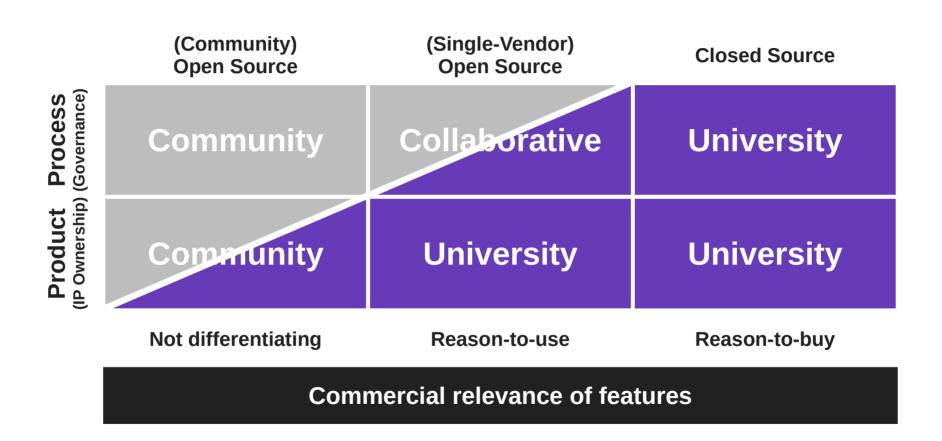


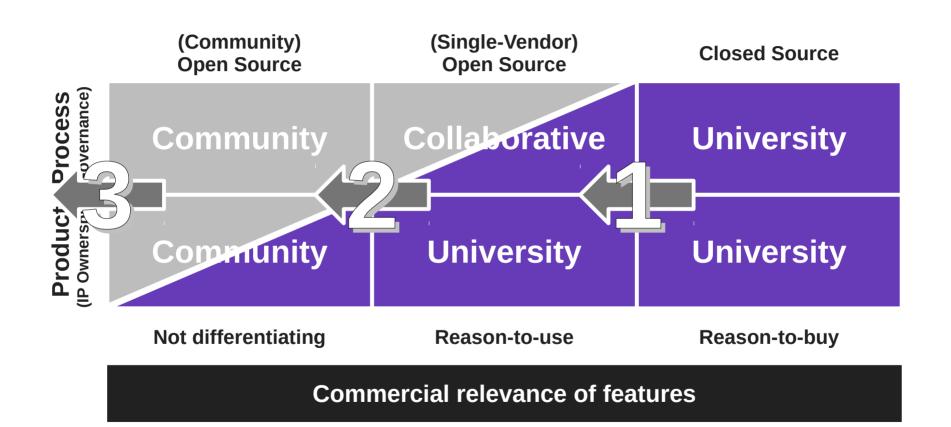


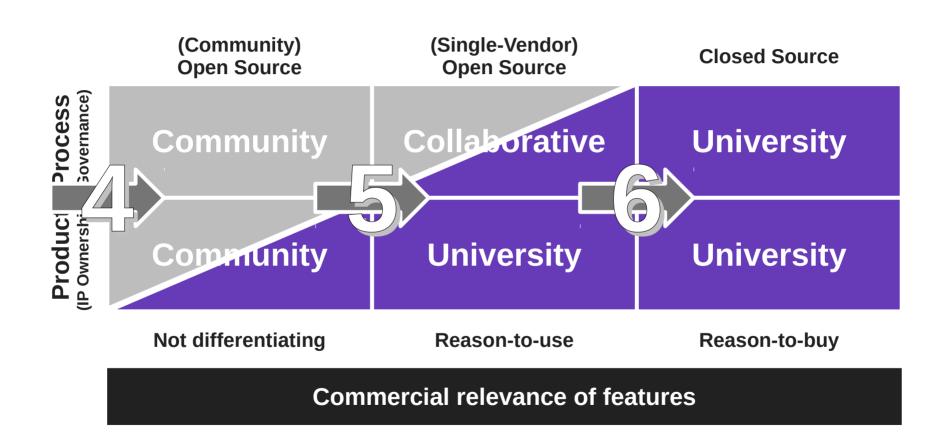






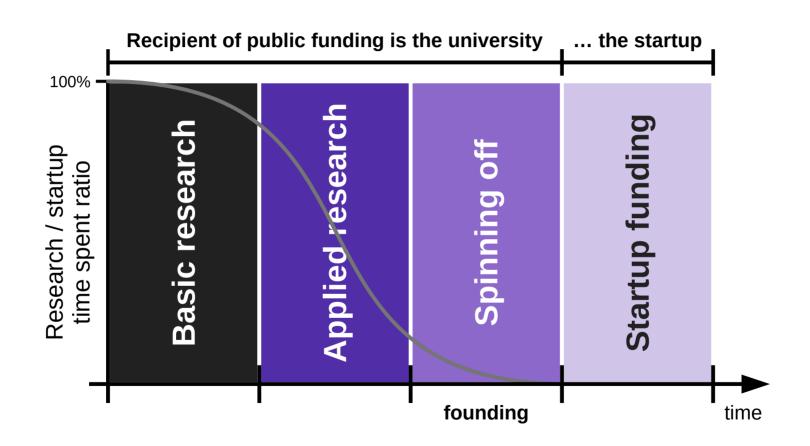


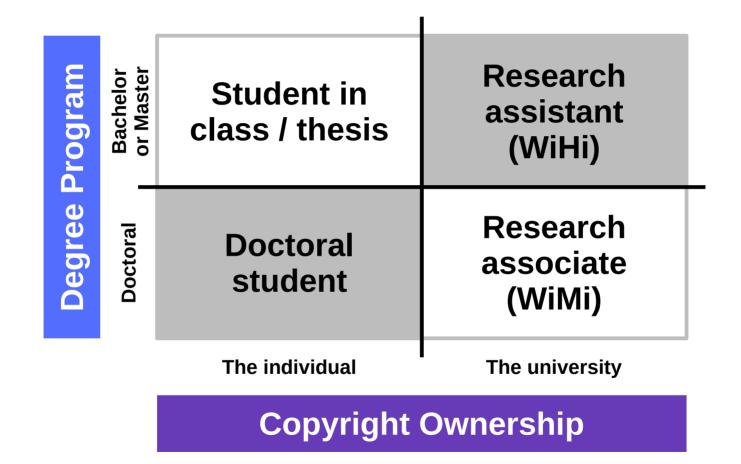




D03

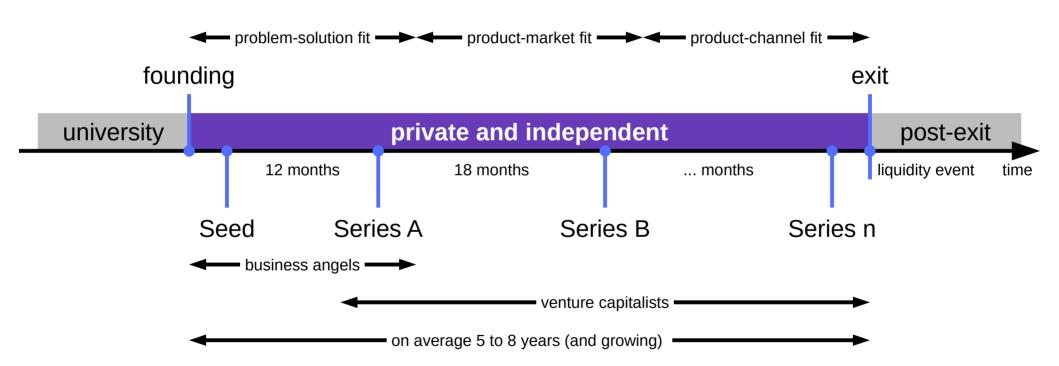
University Spin-offs





D04

Fundraising



Unused

Open Data Service (runtime)

Exporter, Client Libraries Query API Database / warehousing **Cloud Service ETL Process** Kernel Kernel extensions Adapter

Data Engineering Workbench (modeling)

Kernel

Service

ETL Process

Kernel

Kernel

extensions

Adapter

Project Hub (libraries)

Browser

Service



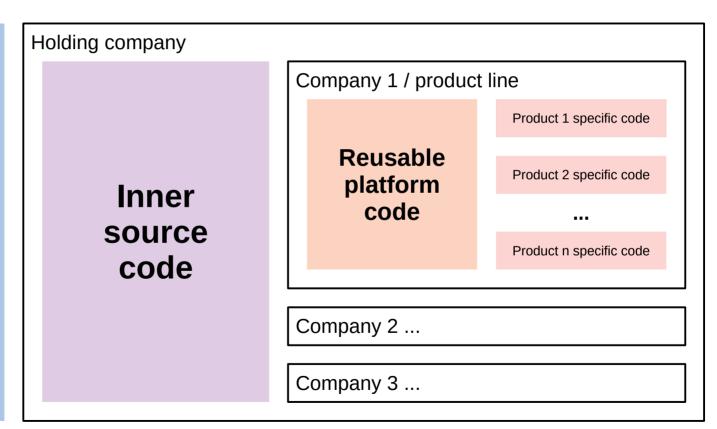
Community (MIT, non-differentiating features)

University (APGLv3 + SSPLv2, reason-to-use features)

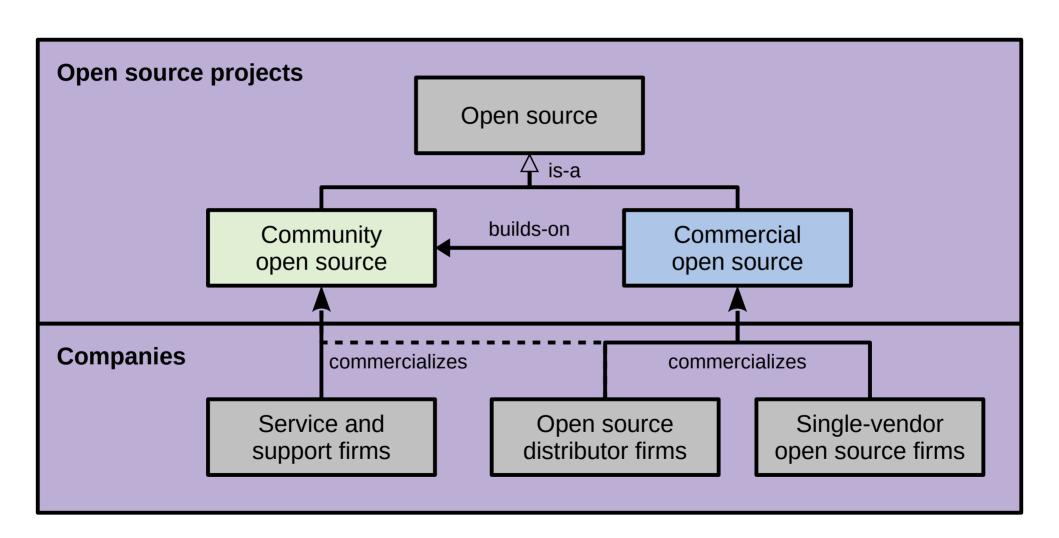
Commercial (reason-to-buy features)

Openness / reusability -

Open source code



Not differentiating —— Competitively differentiating



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3/5	ය ,						