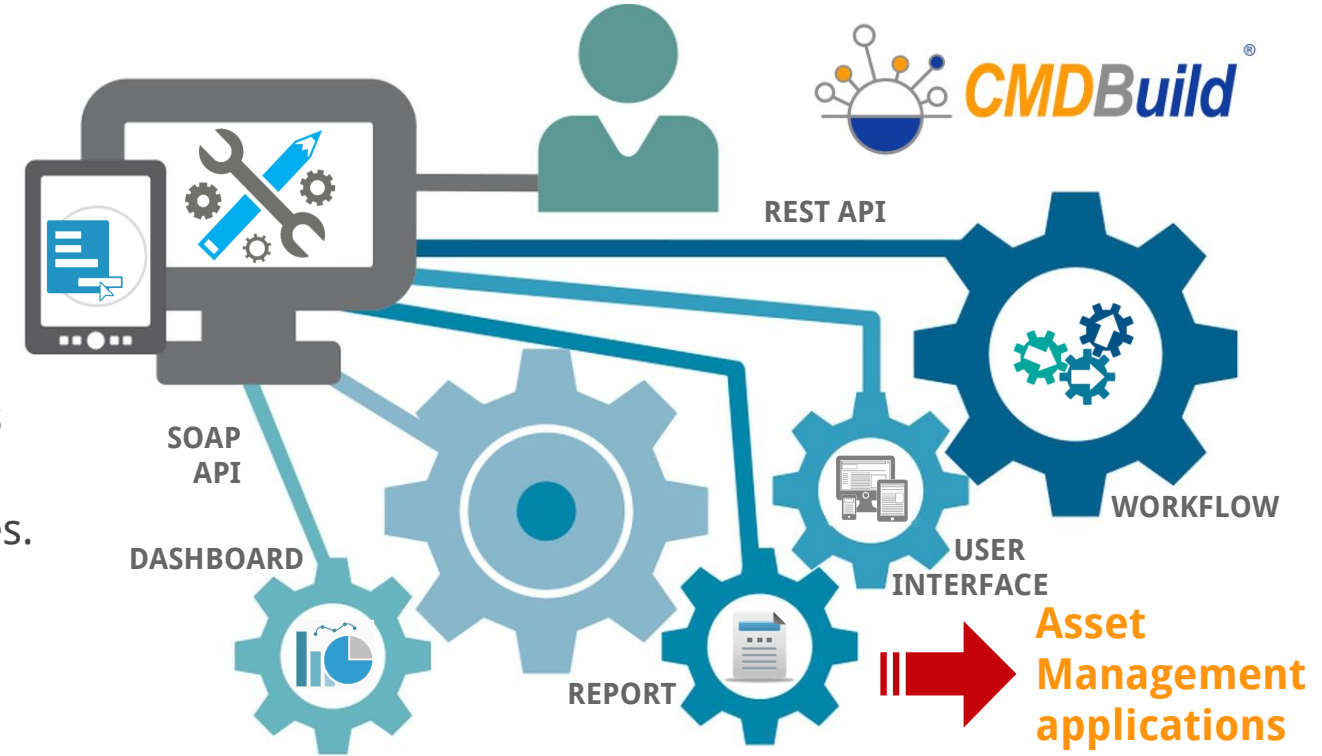
The platform for Asset Management solutions

What is CMDBuild

CMDBuild is a **software platform** for the implementation of Asset Management applications.

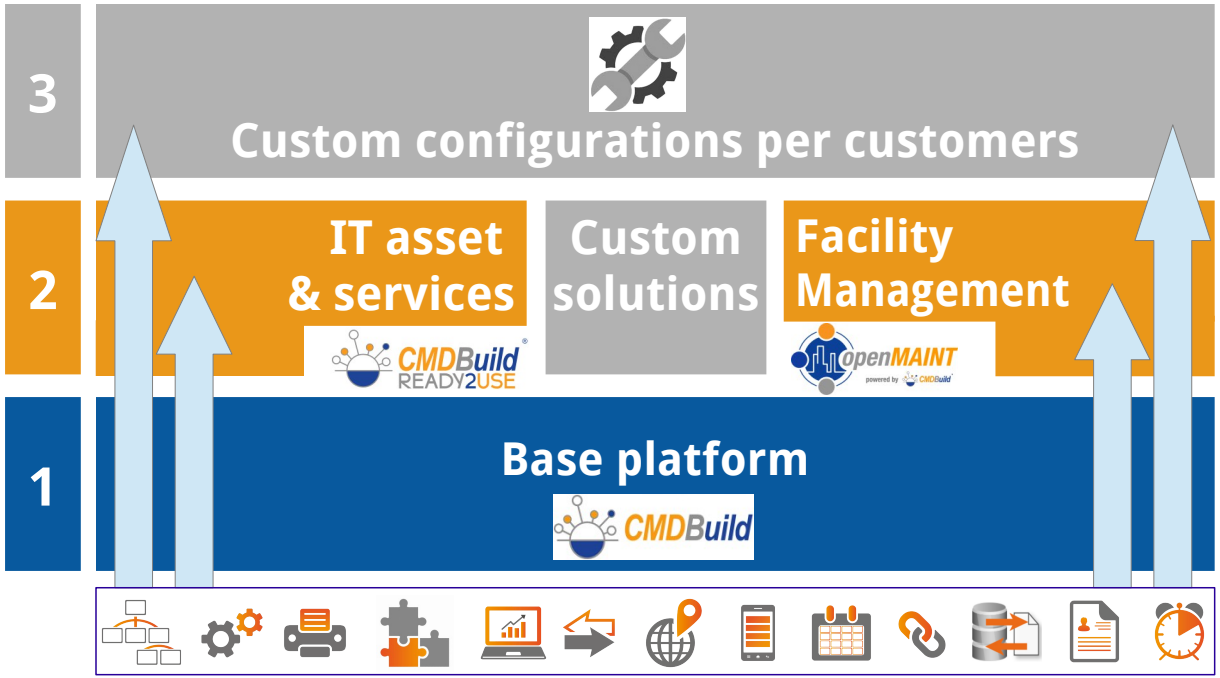
It provides **mechanisms** for the configuration of application functionalities.



Three level design

Is the lowest level of a three level design:

- Level 1: **CMDBuild** basic **platform**
- Level 2: pre configured vertical application solutions **CMDBuild READY2USE** for IT, **openMAINT** for Facility) or other custom
- Level 3: **customized** configurations for each customer

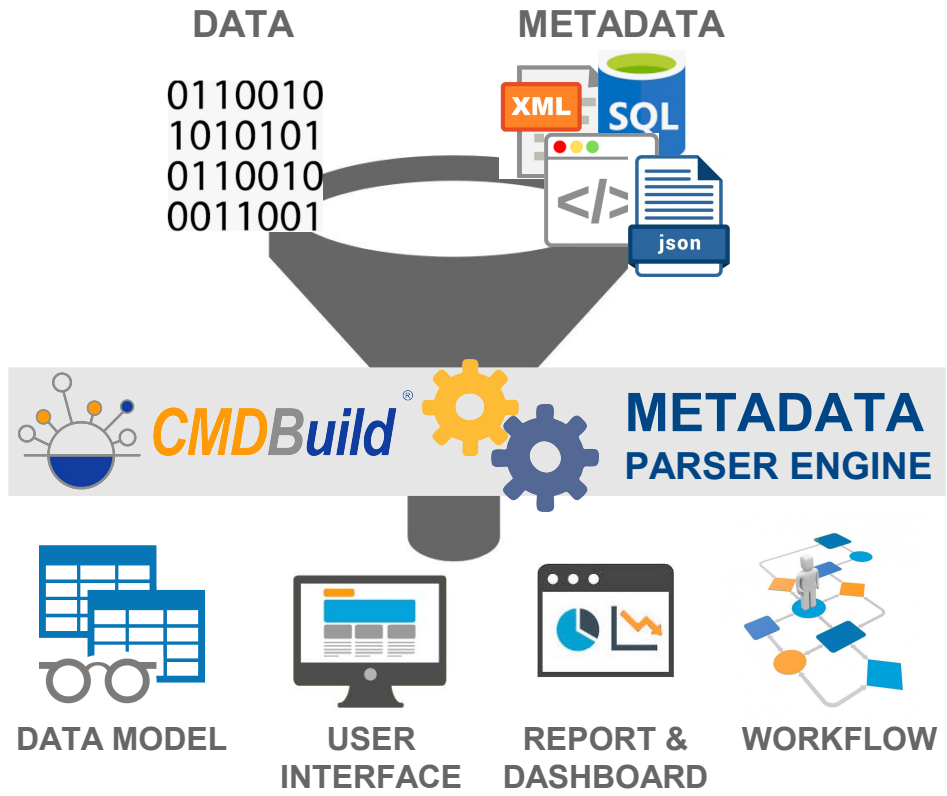


Data and Metadata

How can such an architecture work ?

By separating the "engine" from the "business logic", and managing the level 2 and level 3 implementations through services described by **metadata**:

- simple parameters
- XML descriptors
- JSON descriptors
- SQL structures

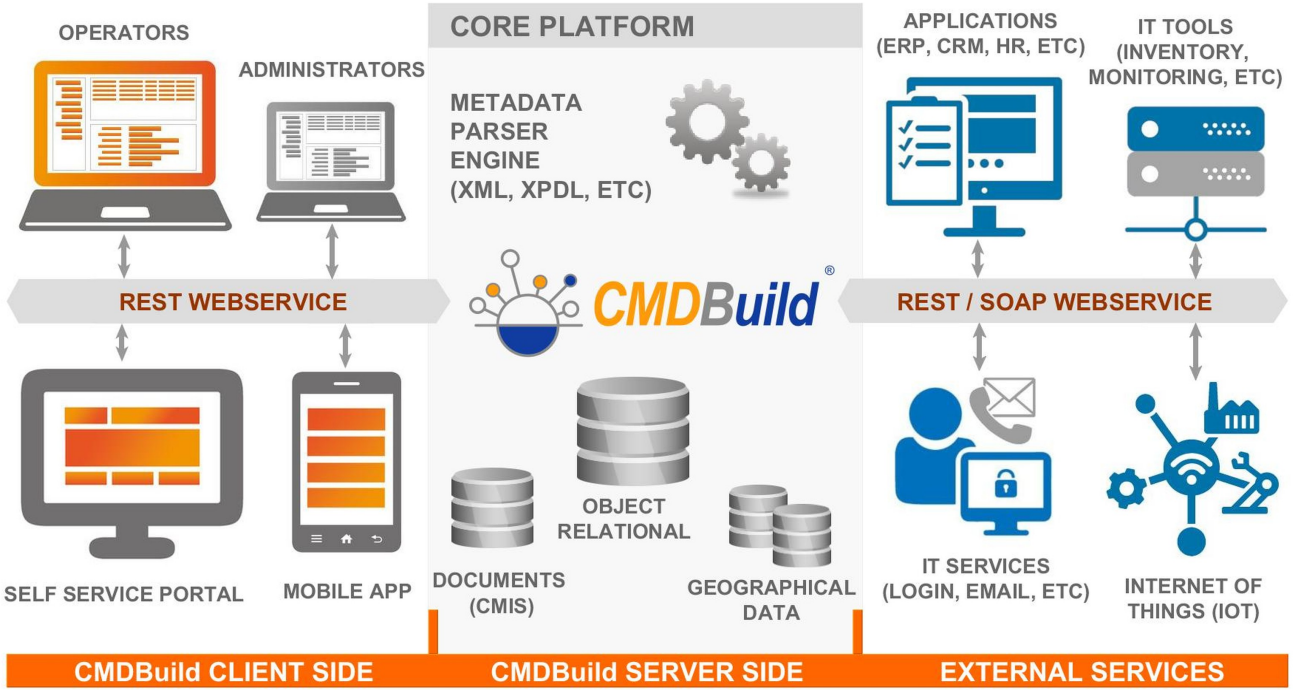


Interoperability

CMDBuild is a platform for the **interoperability**:

- server components
- client interfaces
- collaboration with external services

It uses **standard** and **open** communication **protocols**.



Available Mechanisms

Main Mechanisms (GUI and metadata)

- Database modeling
- Editor and workflow engine
- Editor and report engine
- Dashboard configuration
- Custom GUI interfaces

Native features of the platform

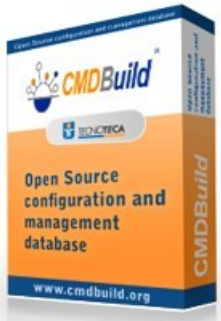
- Relationship paradigm
- Documents archive
- History of data
- User profiling and security
- Email management (input & output)
- Visual graph for impact analysis
- GIS and BIM
- Task manager
- Data Import / Export
- Scheduler

Usage options

- Different authentication protocols
- Multitenant
- Cluster configuration
- Pre-configured appliance
- SaaS service

Technical characteristics - Components

All the components of the **CMDBuild** solution are **open source** and based on the **Java** stack



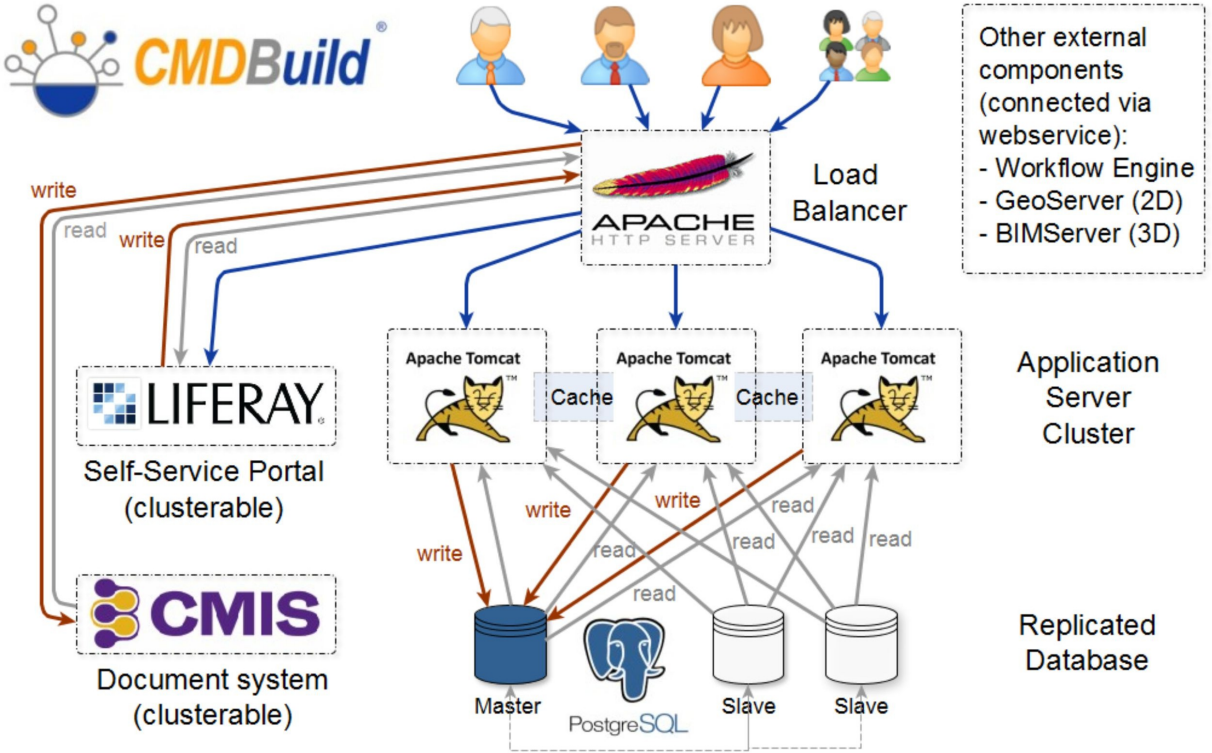
Java™

HTML

SOA
Service Oriented Architecture

Technical characteristics - Cluster

Possible **cluster** configuration to ensure **operational continuity** and system **scalability**

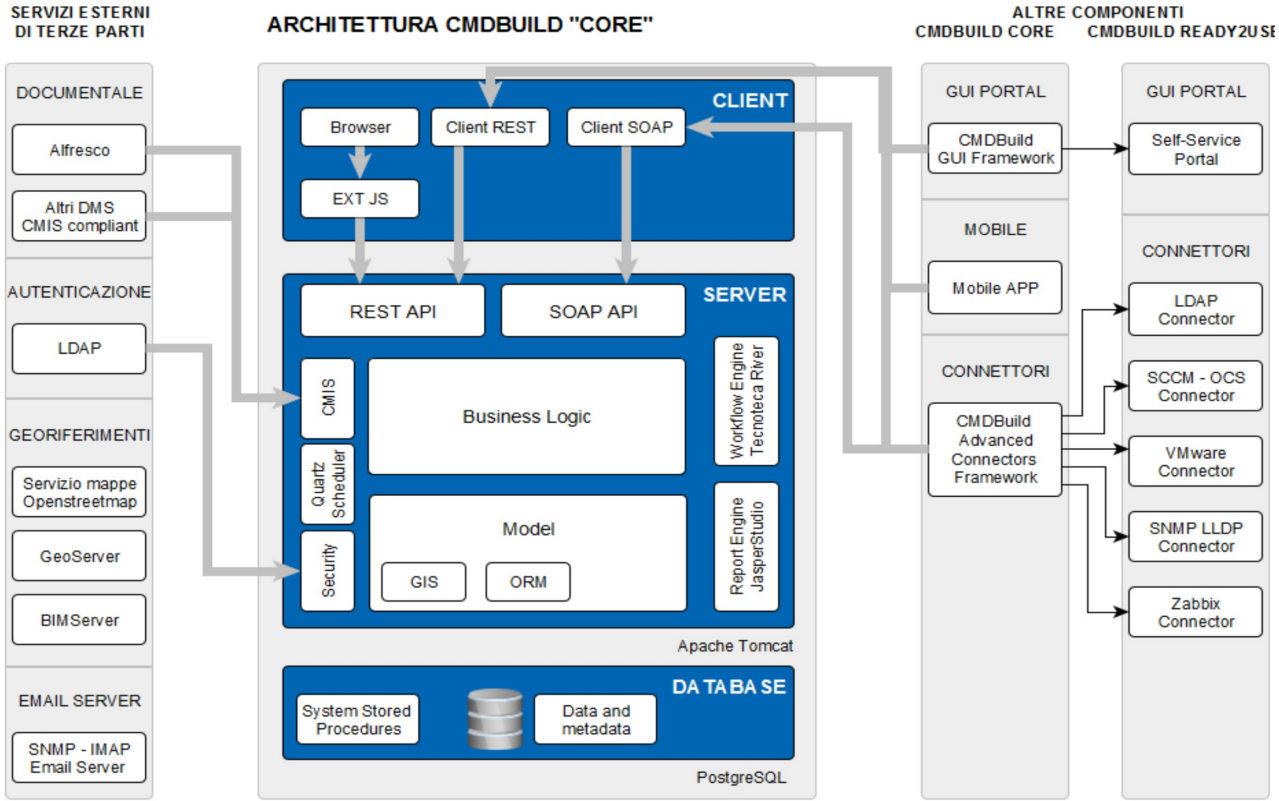


Technical characteristics - Architecture

Three tier architecture (frontend, backend, DB)

Access to **third party services**

Specialized framework and **external tools**



Technical characteristics - Development process

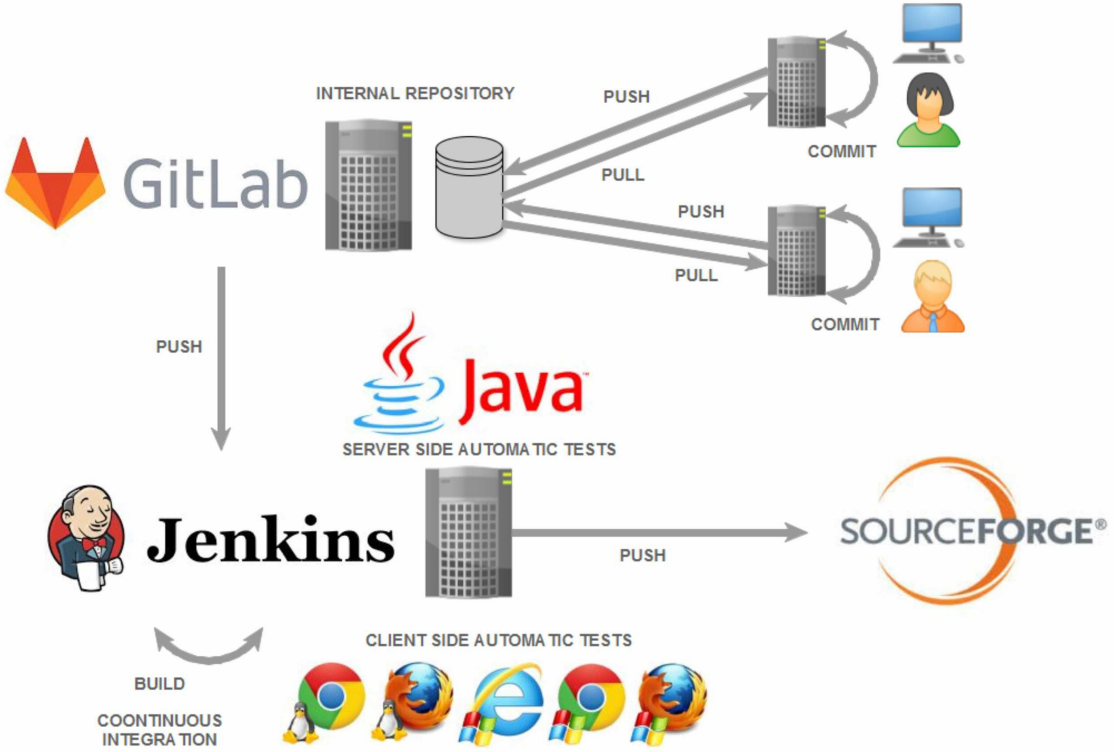
Project management with **"Agile" technologies**.

Gitlab as source code repository and issue management.

Jenkins for the progressive merge of developer commits (continuous integration).

JUnit and for server side self testing, **Selenium** for client side automatic testing.

Sourceforge as a public repository of open source code.



Some figures on the Project

2006
Year of the first release

52
“Core” releases

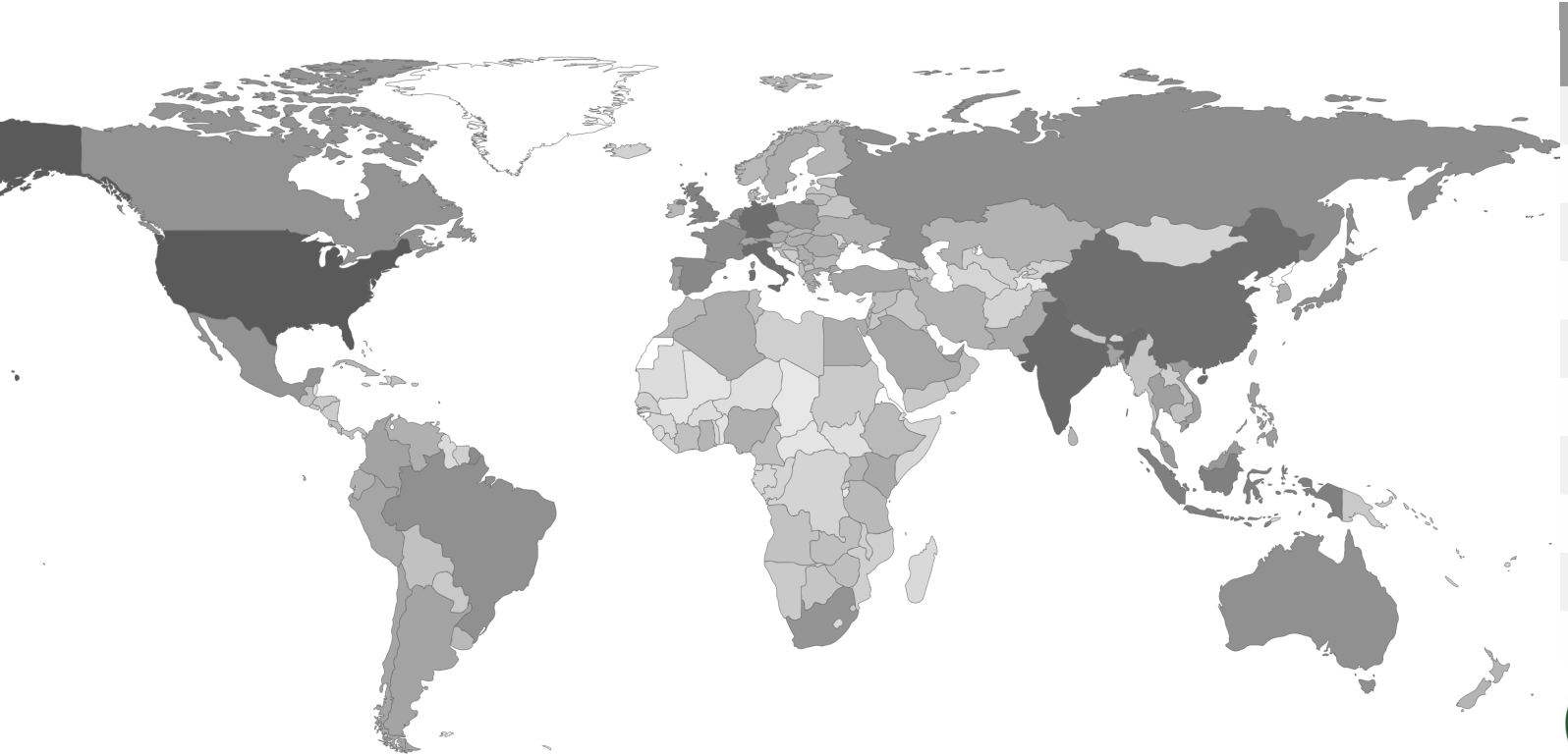
48
“Core” year-man

32
Available languages

30.000
Annual Downloads

6
CMDBuild Day
International Events

Downloads from SourceForge



	Country	Total
1.	United States	18,803
2.	India	11,140
3.	Italy	10,063
4.	China	10,051
5.	Germany	9,655
6.	Indonesia	5,091
7.	United Kingdom	4,726
8.	Spain	3,653
9.	Netherlands	3,617
10.	France	3,150

open source