

Java Standards as Business Boosters

Onno Kluyt, Senior Director, JCP

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~~Onno Kluyt, Senior Director, JCU~~

^
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(filling in)

switzerland-based
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● Day



Justification (my story)

Agenda

ApacheCon Session

Onno Kluyt

Java Standards as Business Boosters



Java Standards as Business Boosters

Can Java standards rejuvenate business? Can JSRs adoption help organizations and communities grow? This presentation will share with attendees the results companies and organizations have experienced after implementing Java standards in their applications and/or adopting applications that support Java standards. It will draw participants into an interesting dialogue about opportunities with Java standards. Whether it's about JSR 82, Java APIs for Bluetooth which allowed Java-enabled devices to integrate into a Bluetooth environment or JSR 135, Multimedia in Microdevices that allowed the digitization of events on the go and their uploading on Java phones and other Java technology-enabled mobile devices. Or about JSR 101 JAX-RPC which helped developers build Web Services that were assured of portability and interoperability. Or the OSS Through Java APIs which enabled rapid assembly of business components for telco companies. Or JSRs 120 and then its successor JSR 205 which added the capability of sending and receiving multimedia messages. Or JSR 168 Portlet Specification which brought enhanced enterprise productivity and cost containment. Or JSRs supported by ASF projects. The list of the 300+ JCP JSRs leading with the platform JSRs for Java SE, Java EE and Java ME and many other APIs is a series of powerful examples of how standards instilled new economies in many businesses at different levels in the channel.

my summary:
get you motivated
to submit a
successful JSR

my plan:
(1) talk about my experience with the JCP
(2) explain impact on our business
and our projects

Justification (my history)

- Spec-Lead of JCR (aka. JSR-170 & JSR-283)
- ASF Member, Jackrabbit Committer

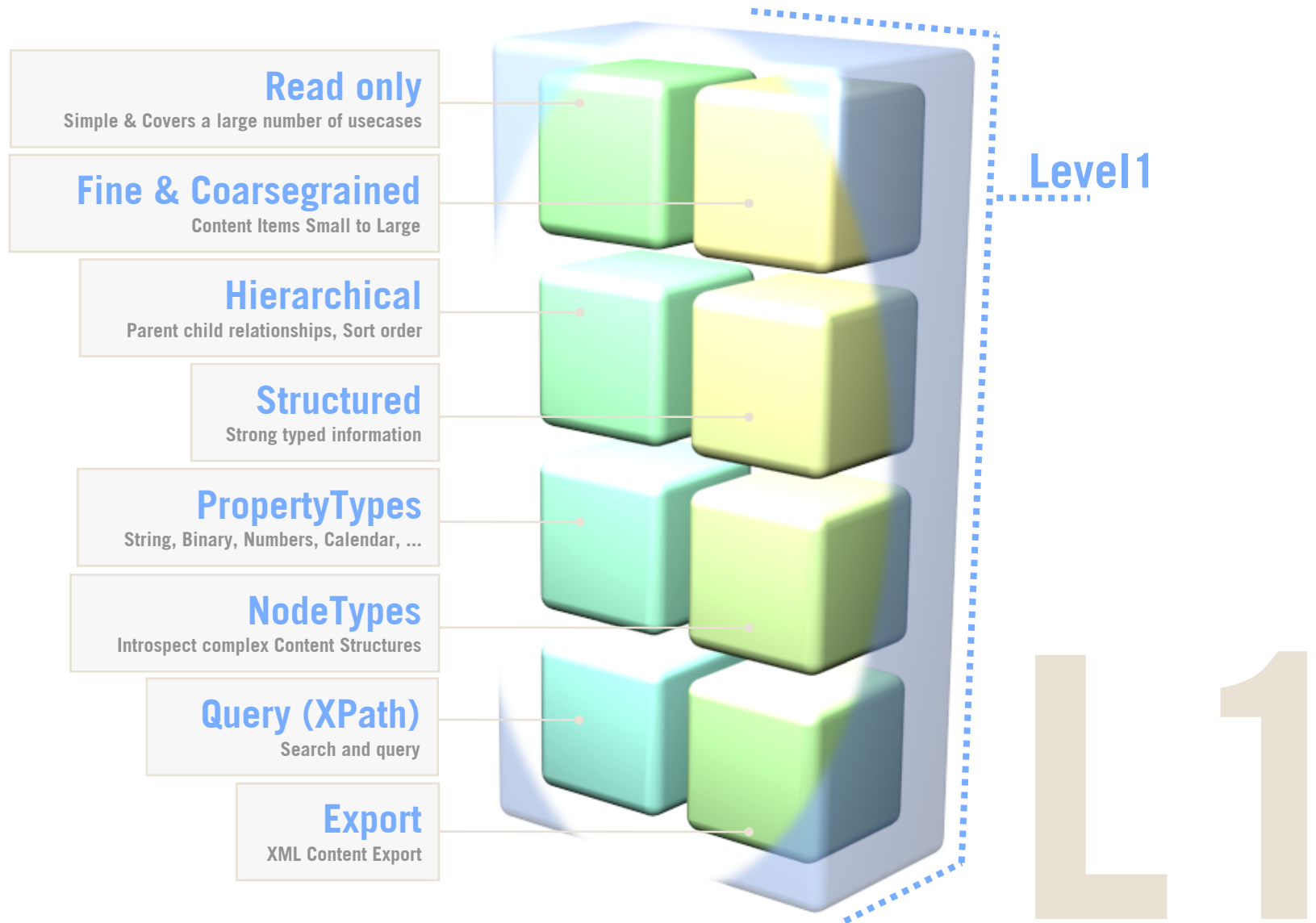
What is JCR?

Content Repository for Java Technology API

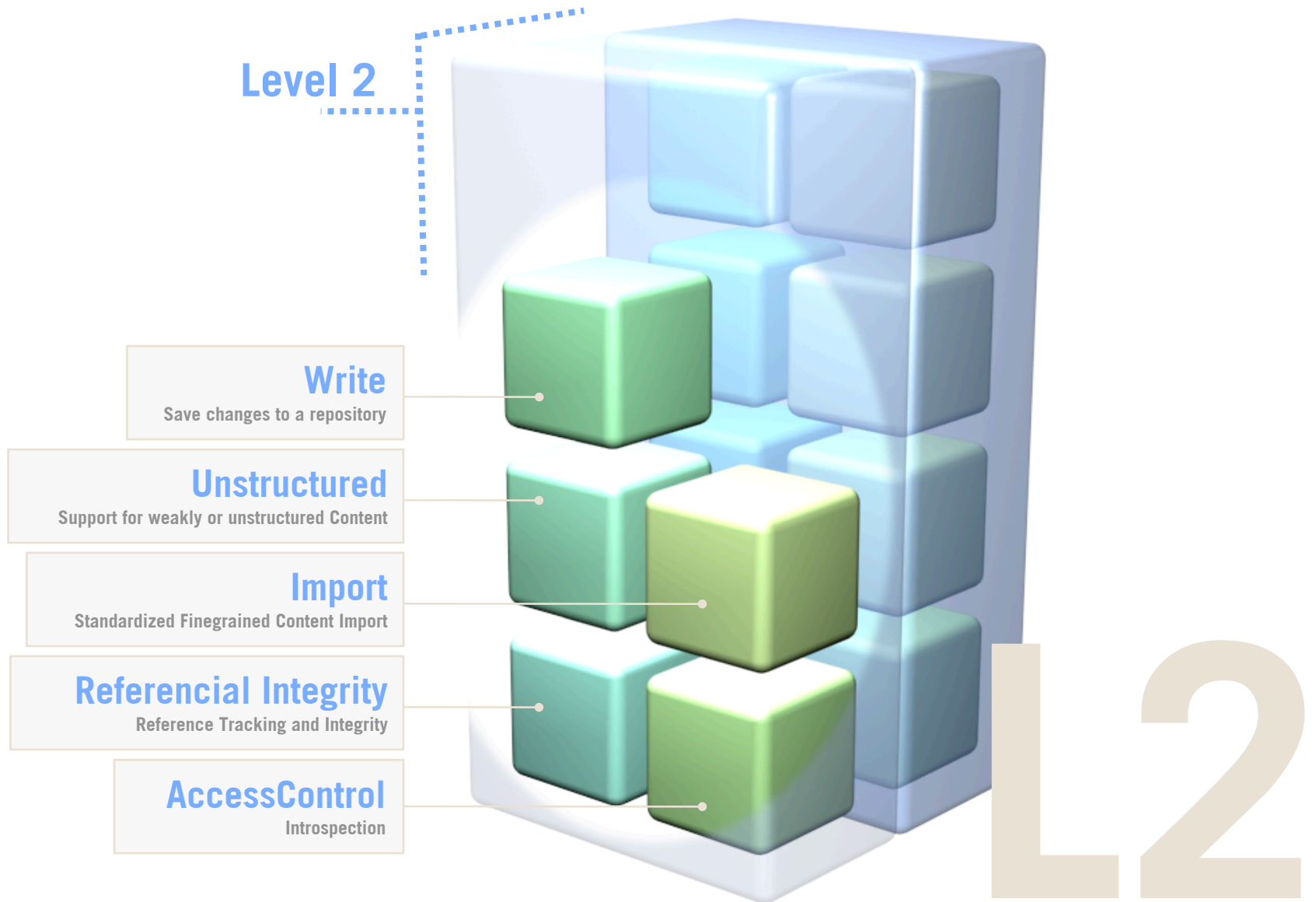
„ The API should be a standard, implementation independent, way to access content bi-directionally on a granular level within a content repository. “

<http://www.jcp.org/en/jsr/detail?id=170>

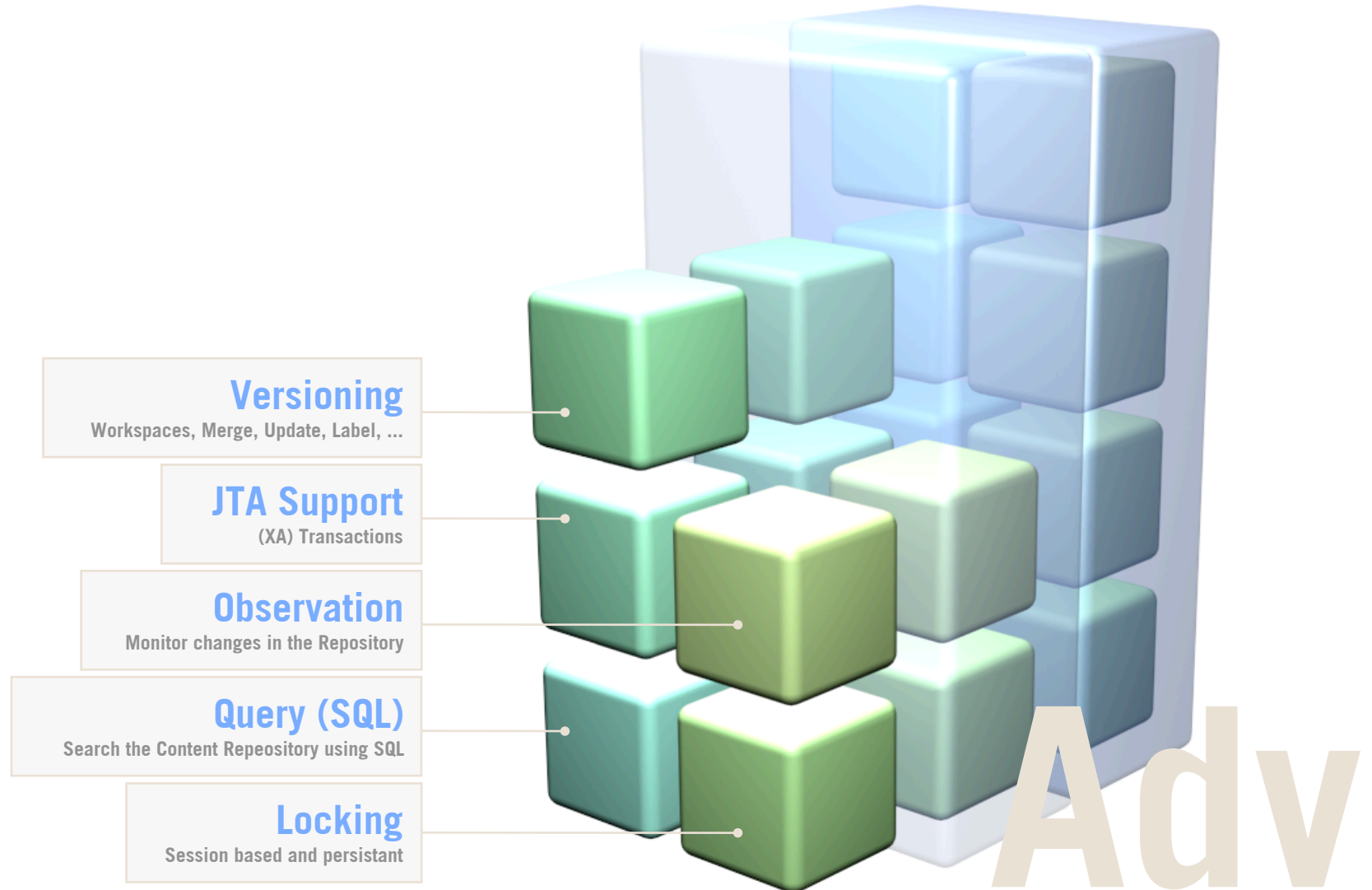
Level 1 : Features



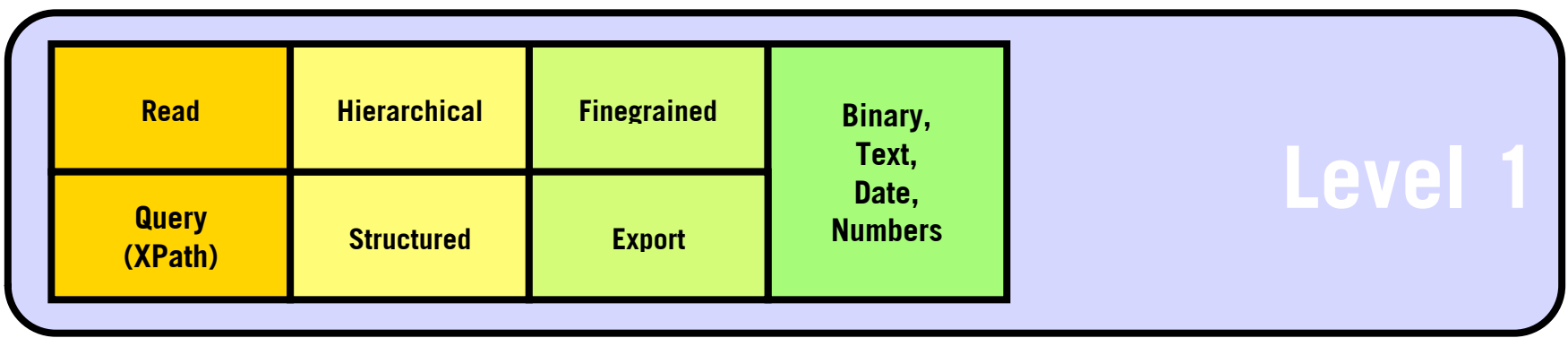
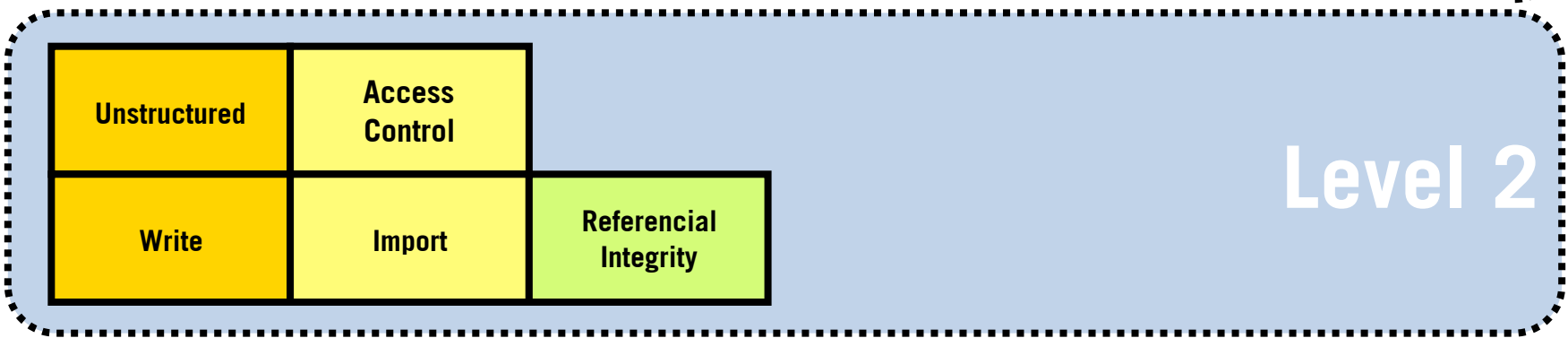
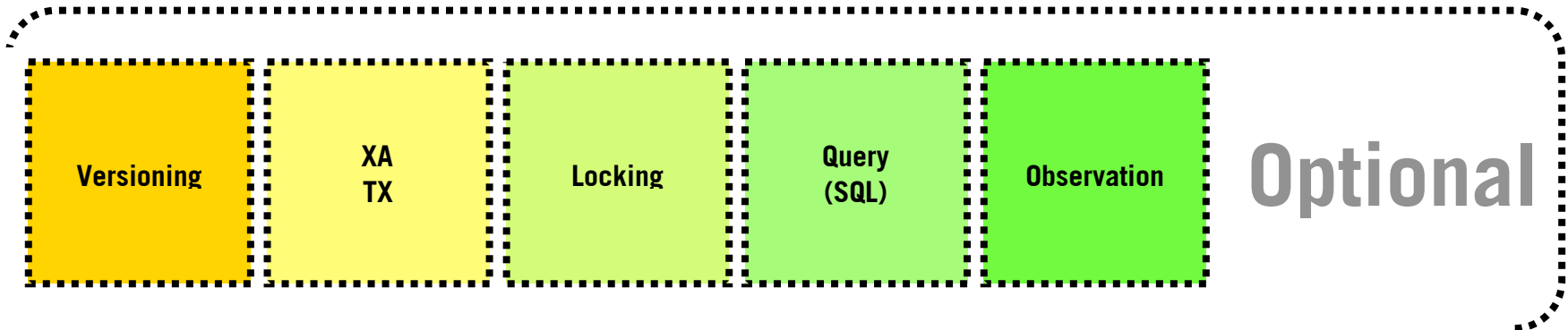
Level 2 : Features



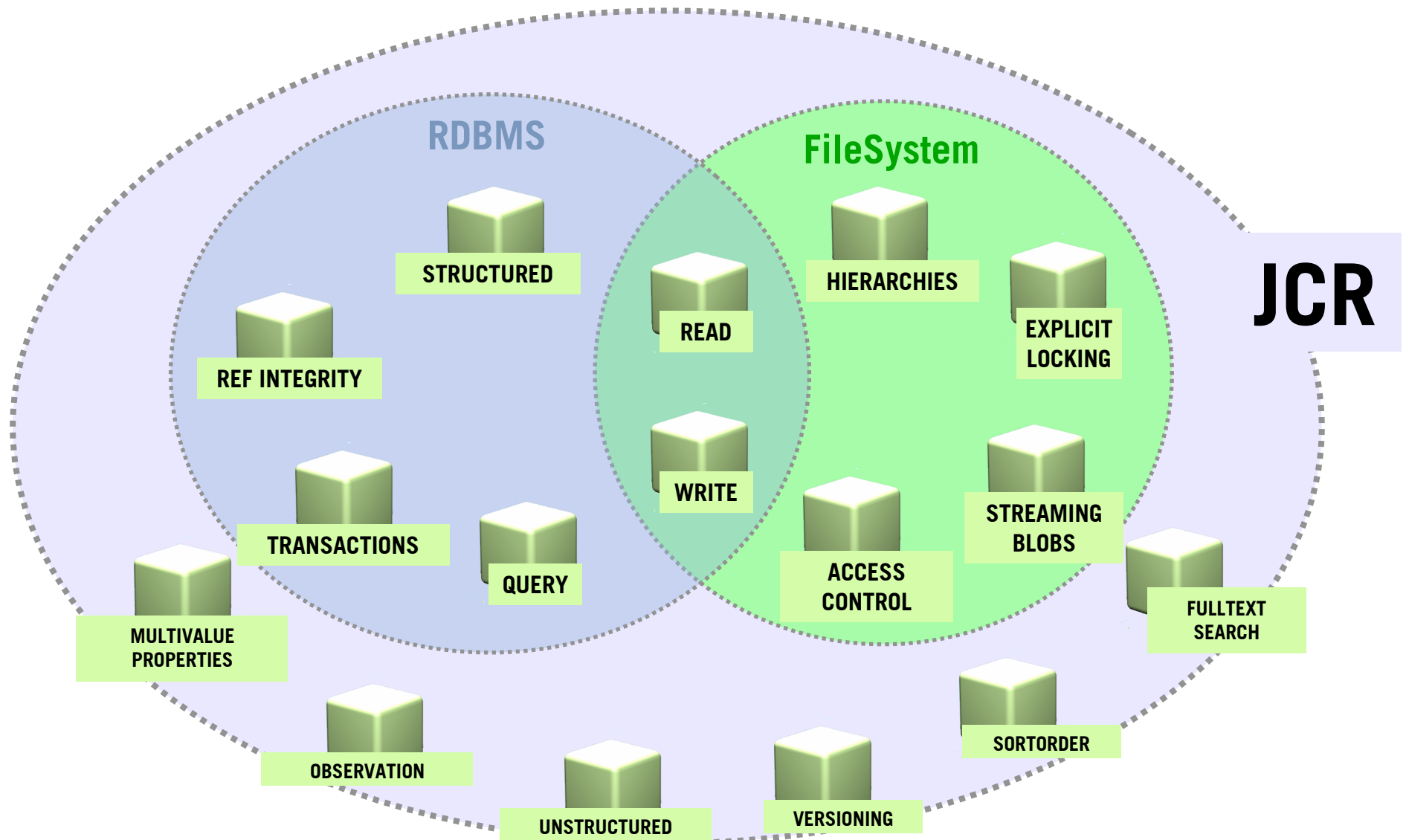
Advanced Features



Functional Overview



Best of both worlds.



Who is JCR?

~50 members in the EG

JSR-170



~70 members

JSR-283



bottom line: money & politics

JSR-170: Stats

- Took about 4 years **original planning: 1-2 years**
- Investment for Day ~30 man years of work to complete (Spec, TCK & RI)
- RI: Apache Jackrabbit graduated as a TLP

The JCP

- **Short for: Java Community Process**
- **Standards body for Java**
- **Run by Sun Microsystems**
- **Member organizations sign the JSPA**

How to start a JSR

- Any member of the JCP can initiate a JSR
- Find a number of interested parties and file a JSR

*...more or less: as
simple as filling out a
form*

Who should start a JSR?

- Got a passion?
- Got a team?
- Go for it!

*...but be prepared to be stuck with it
for the next couple of years*

The Players: EC

- Executive committee for EE/SE and ME
- 16 seats elected by the community
- Votes* three times on any successful JSR
- Geir Magnusson represents the ASF

***need a minimum of 5 votes,
majority "yes" votes to pass**

The Players: EG

- **Expert Group: The group the spec-lead works with during a JSR**
- **Little to no formal power**
- **Signed agreements to transfer their intellectual property to the Spec-Lead**
- **As a spec-lead working with an EG: Try to drive consensus, avoid voting.**

The Players: PMO

- Program Management Office**
- In charge of the admin side of the JCP**
- Getting ahead in the process, allowing new members into the Expert Group**

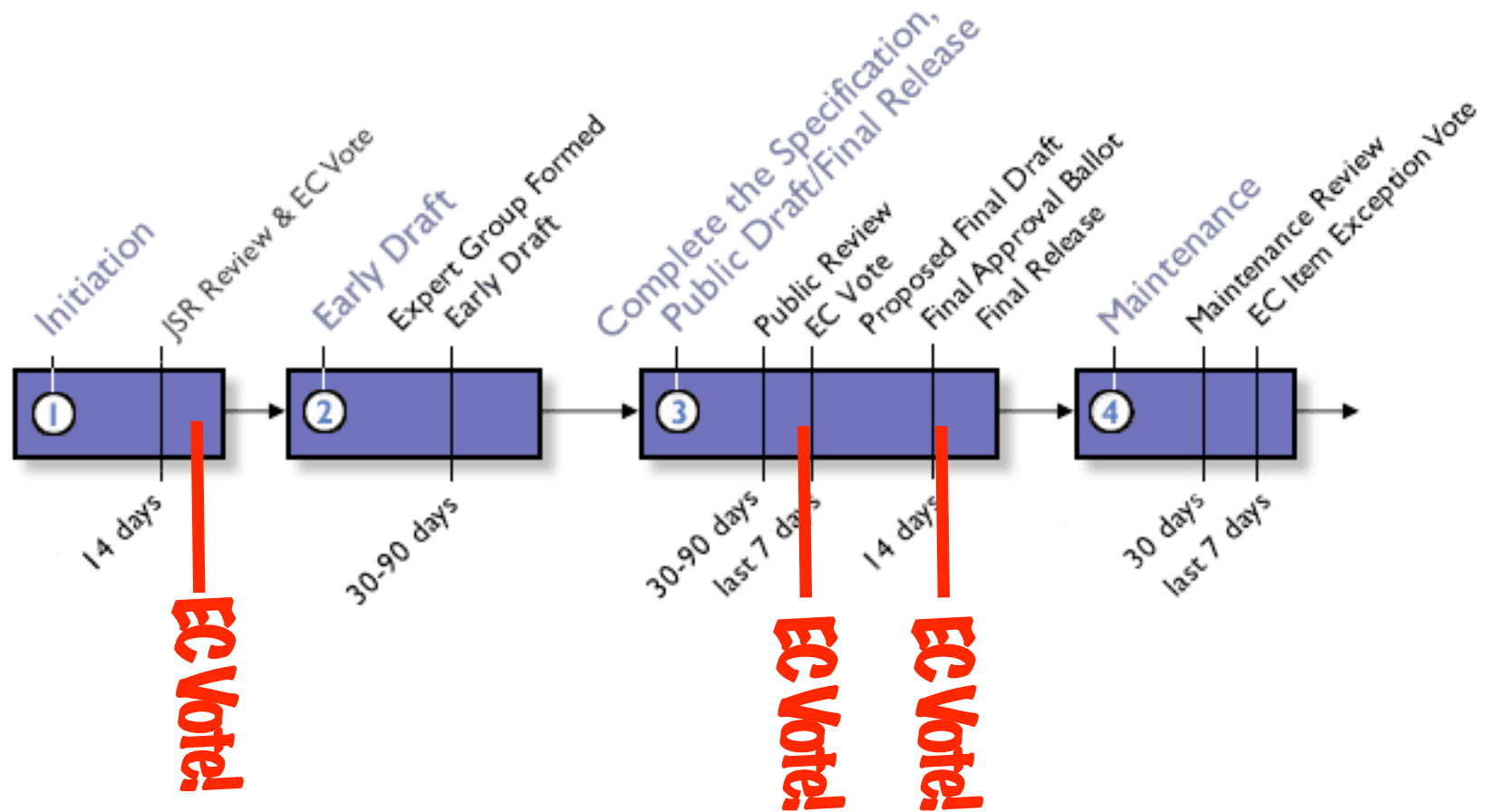
The Players: Sun Lawyers

[...what can I say?!]

The Players: Spec-Lead

- Responsible for the entire specification**
- Allows people into the EG and can remove people from the EG**
- In charge of the working model**
- The single most important factor in the success of a JCR**

The Process



RI & TCK

- A JSR is not just about the Spec.
- The reference implementation has to pass the TCK
- The TCK should have 100% signature coverage
- High percentage of spec-coverage.

Working Model

- Freedom of working model
- Defined by the spec-lead

in our case:

- mailing list
- issue tracker
- CVS
- weekly conf calls
- 2-3 f2f meetings / year

JCP v2.0, 2.5, 2.6

- JCP (the process) evolves as JSRs itself**
- JCP 2.5 was heavily influenced by the ASF**
- Easily influenced (in my experience)**

NDA vs. Open Source

- The JSPA includes an NDA for the EG
- Declare in the working model what's public and what's private

...consider some of the EG conversations to be on the private@list.

Business Terms

- **“Licensing” in JCP lingo**
- **The result (IP & Software) of a JSR is owned and licensed by the Spec-Lead**
- **RI & TCK are separately licensed from the API & the spec**

Impact on Business

- Name recognition**
- Implicit credibility**
- Attract a much broader audience**
- Governments (particularly in the EU) are standards oriented**
- Hiring: Publicly visible Research Positions**

Impact on Business

- For Day Software:**
 - Name recognition particularly in the US**
 - Generates leads even for applications**
 - Allows for a much broader product portfolio: from WCMS to Content Repositories to Connectors**

Impact on Projects?



How much effort is a JSR?

- More than you may think
- For JCR:
 - 1 spec-lead,
 - 1 full-time author,
 - 2-3 full-time devs for the RI,
 - 2-3 full-time devs for the TCK
 - 3-4 additional experts on the expert group

Apache Spec-Leads?

- None so far...
- ...but an Apache Project is almost an ideal setup to start a JSR.

Surprised by the JCP.

- Very strong spec-lead position**
- Liberties and responsibilities**
- “Size does not matter”**

Why the JCP works:

- RI & TCK**
- Finished JSRs are very well adopted**
- Allows commercial entities to participate easily**
- Strong spec-lead**

Questions & Answers

more questions: david.nuescheler@day.com