

Implementing AnIML 1.0:

The AnIML Technique Definition Document for Chromatography

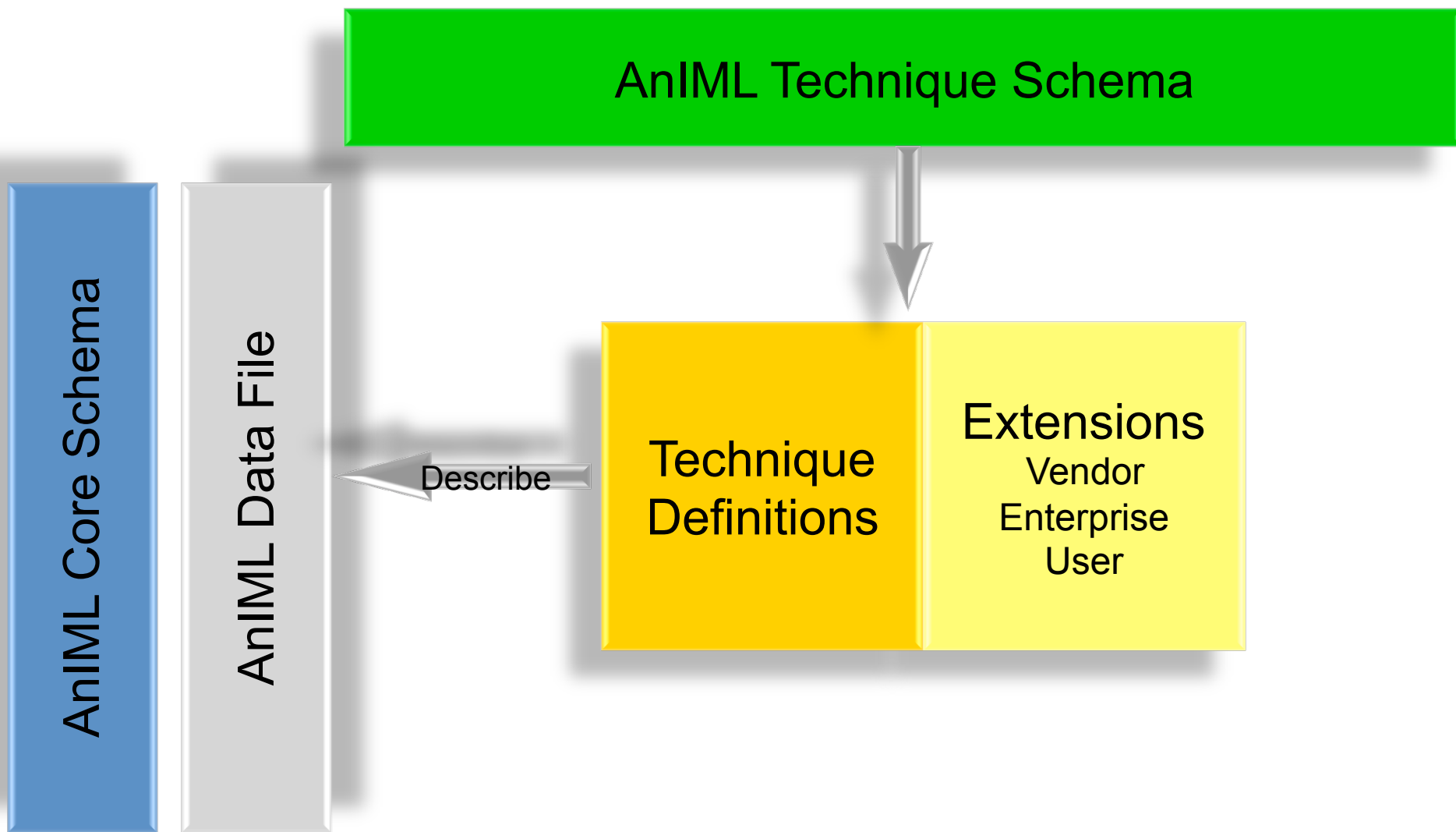
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Waters GmbH

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PittCon 2011, Atlanta, GA, USA

- Quick recap
- Development
- Applicability
- Lessons learned
- Q&A



What is a Technique Definition Document again?



Which one is not like the others?

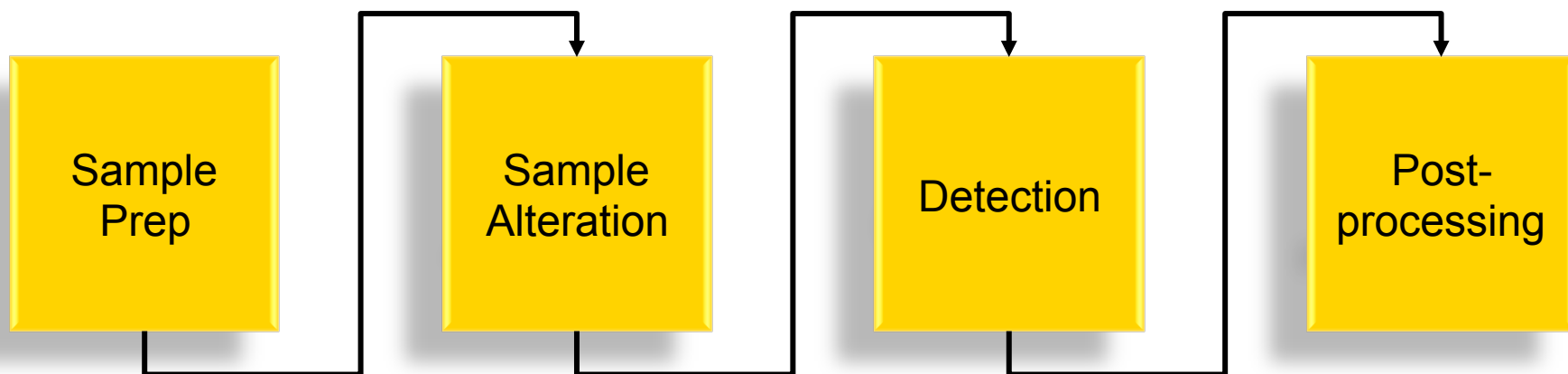
UV/Vis

MS

IR

Chromato-
graphy

Sample Altering Technique



- n/a

- Chromato-
graphy

- UV/Vis
- MS
- NMR
- IR

- Peak
Finding
- Smoothing

Typical Detection Technique

Samples and their Roles

Parameters (Instrument...)

Measurement Data
(Spectra...)

Chromatography

Samples and their Roles

Parameters
(Instrument, Method...)

Measurement Data

Chromatography

Samples and their Roles

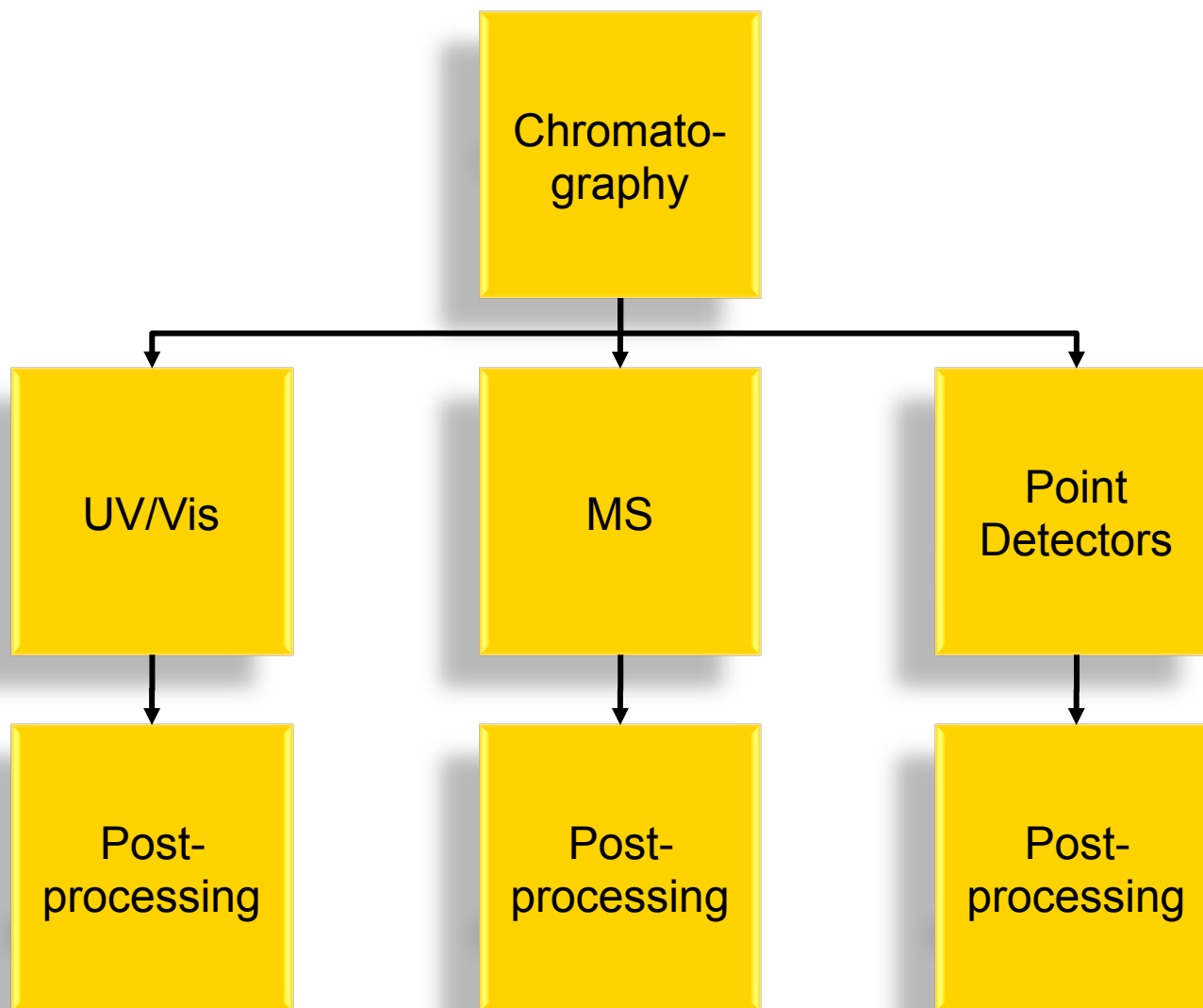
Test Sample
Mobile Phase
Wash Solvent Weak/Strong

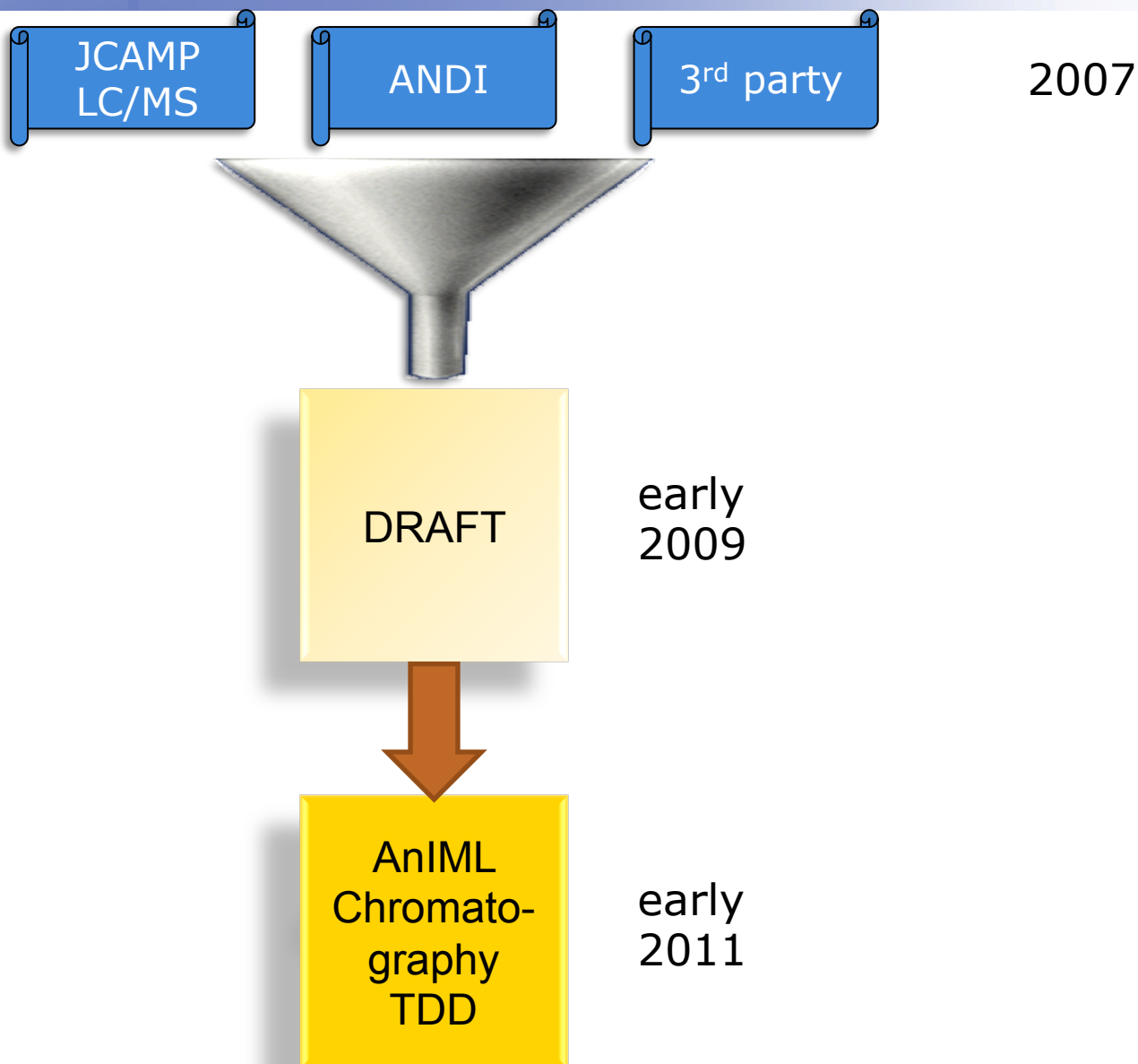
Parameters
(Instrument, Method...)

Instrument System Descr.
Sample Introduction
Inlet
Pump
Carrier Gas Control
Mixing
Separation Medium
Oven
Switch Valve
Fraction Collector
AD Converter Channel

Measurement Data

Separation Monitoring
Timeline!





Who is involved?

Waters
THE SCIENCE OF WHAT'S POSSIBLE.™



Waters
THE SCIENCE OF WHAT'S POSSIBLE.™

bssn software



and more...

In:

- LC (incl. HPLC, U(H)PLC)
- GC
- TLC, prep. TLC
- Paper Chromatography
- Gel Permeation
- Ion Exchange
- Flash Chromatography

- Separation Monitoring (T, p, Flow rate)

Out:

- SFC (Extension)
- Electrophoresis (Extension)

- Any detectors
- Fraction Collection (Extension)

Chromatography is...

- Different
- Challenging
- A good test of the AnIML concepts

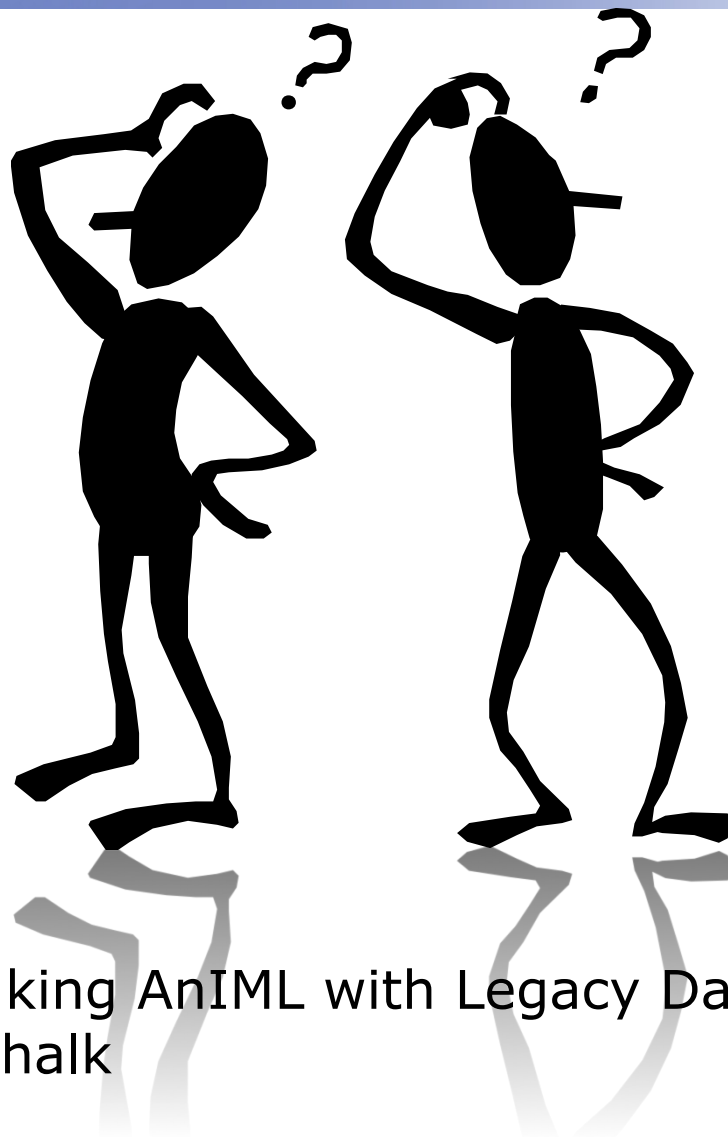
Keys to success:

- Frequent, regular meetings
- Subject matter experts
- Collaboration
- Participation!



- The AnIML Web Site
 - <http://www.animl.org>
- The SourceForge Analytical Information Markup Language Project: Summary Page
 - <http://sourceforge.net/projects/animl>

Thank you!



Next:

- 2:20 PM - Recess
- 2:35 PM - Crosswalking AnIML with Legacy Data Formats, Stuart Chalk