



**ADDING VALUE
THROUGH SCIENCE**

SUCCESSFULLY SELLING SUPER-SCIENCE

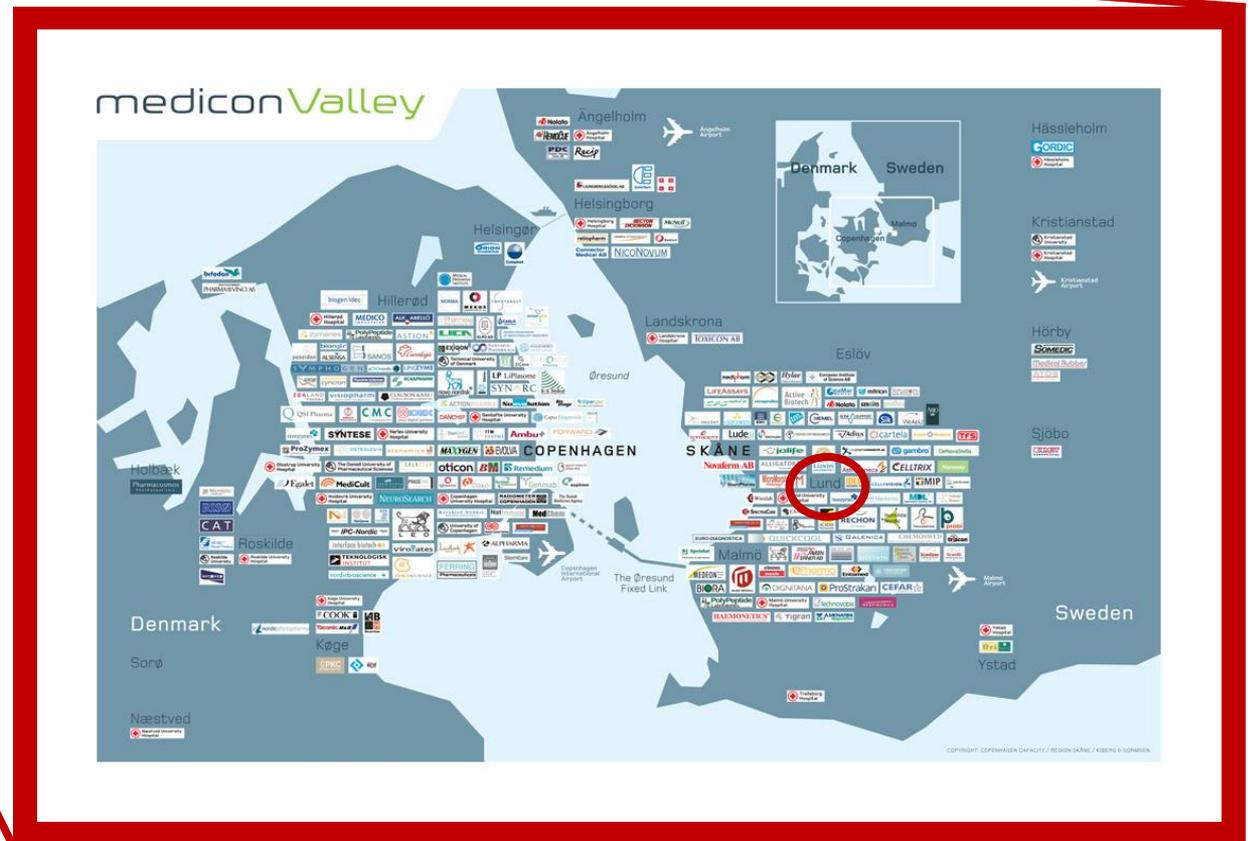
***THE PLACE OF LARGE-SCALE INFRASTRUCTURE
IN CONTRACT RESEARCH***

STEFAN ULVENLUND, CSO



- **Colloidal Resource** founded in 2005 by Karin Bryskhe and Anna Stenstam
- Spin-off from Physical Chemistry, Lund University
- Located in the Chemical Centre, Lund University

:CR: Colloidal Resource



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LUND



:CR: Colloidal Resource

LUND

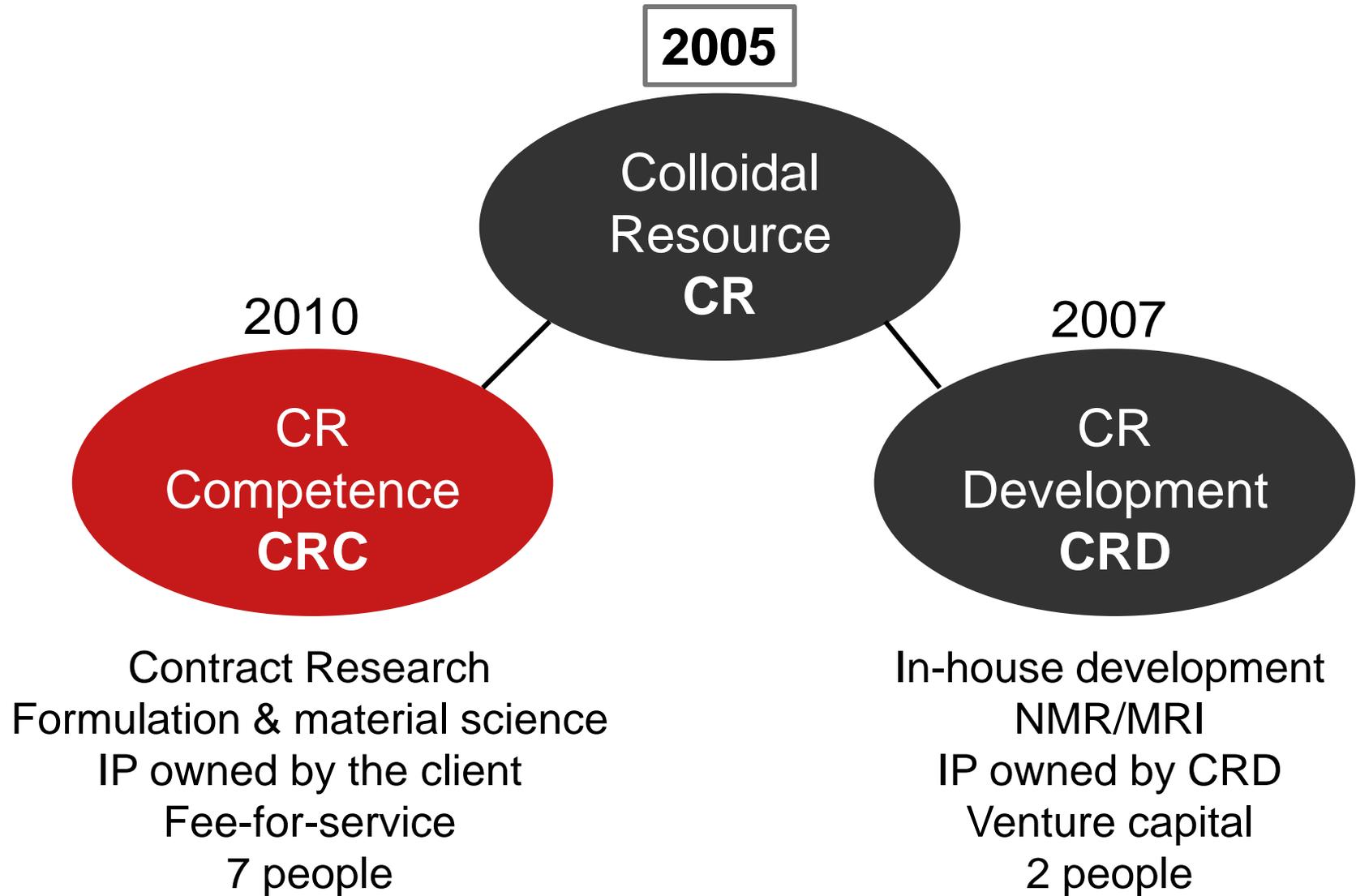


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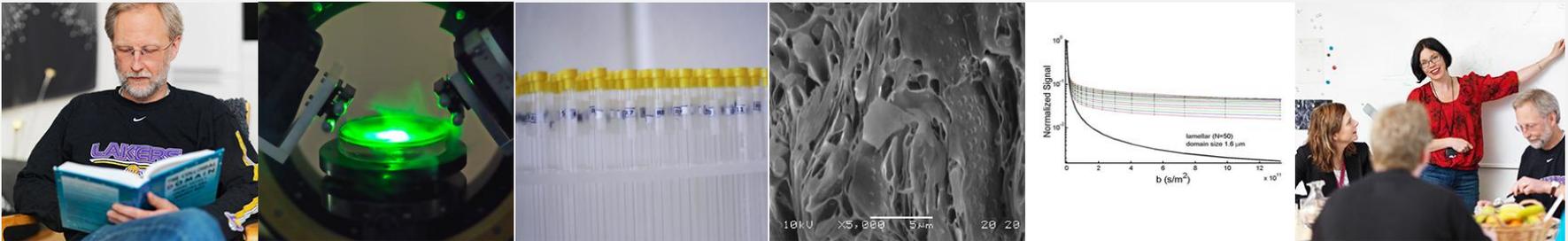
LUND



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CR Competence - Our business

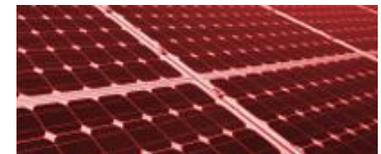
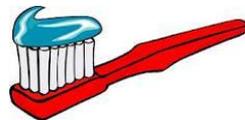


- ***Formulation and process design***
- ***Advanced analysis and material science***
- ***Product development***
- ***Trouble shooting and optimization in all phases***
including “Scientific Due Diligence”, FMEA risk analysis etc.



Adding Value
Through Science –
*In many different
fields of business!*

Who we are and **what we do**
a team of scientists that understands business.



:CR: Colloidal Resource

BDF ●●●●●
Beiersdorf

P&G

gsk
GlaxoSmithKline
Consumer Healthcare

FERRING
PHARMACEUTICALS

SEMCON

ALLIGATOR
bioscience

MC

MÖLNLYCKE
HEALTH CARE

Perstorp

BONE SUPPORT

Zelmic
technologies

MIP
Technologies

Höganäs

GAMBRO

BIOINVENT

Bostik

Triomed

s1
voltaics

Active Biotech

Kemira

metpro
Medical Technology Products

IDEON
AGRO FOOD

RECHON
LIFE SCIENCE

HEDSON TECHNOLOGIES

GENOVIS

ERYSAVE

ION SILVER

NANO - SCIENCE CENTER
KØBENHAVNS UNIVERSITET

ABBODISK

:CR: Colloidal Resource



“Colloidal Resource has brought great insights and value to real world problems in our product development cycle. They have a great balance of being focused on the end product and also bring best in class scientific thinking and approaches”

Eric S. Johnson, P&G Beauty

HOW DO WE DO THIS?

Clever use of existing facilities – including large-scale infrastructure



Chemical Centre

NMR
DLS, DWS, 3DDLS, LD
GC-MS
FTIR, CD
XRPD
AFM
Ellipsometry, QCM
Streaming potential
...

Large-scale infrastructure

Microtomography
SAXS, WAXS
Diffraction
EXAFS
Crystallography
Surface diffraction
IR
...

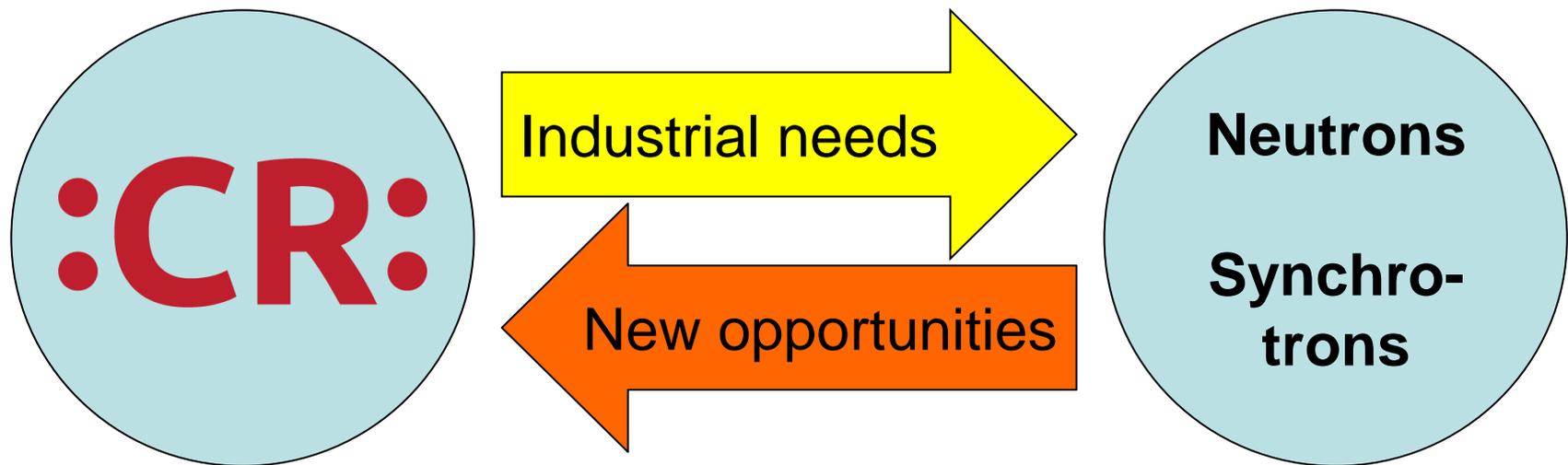
External organisations

Analytical labs
Engineering groups (Join)
Smart companies (MV)
University hospitals
Institutes

We identify the actual problem – *then* we identify the tools required to solve it

- Large-scale facilities are tools among others (albeit bigger and fancier...)
- We use large-scale infrastructure
 - When we can (**accessibility**)
 - When it adds value (**cost vs benefit**)
 - When we know what to use it for (**2-way knowledge transfer**)

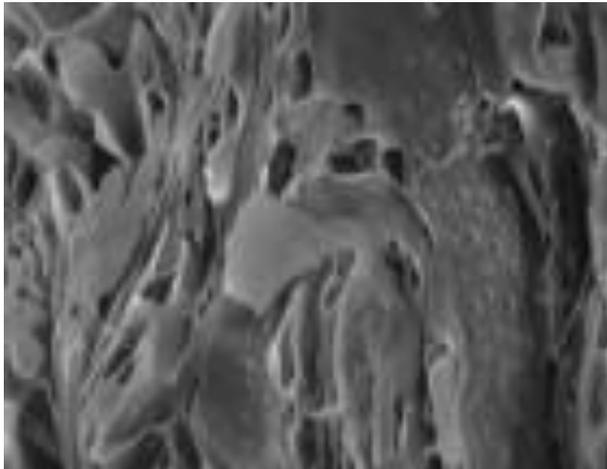
Solutions looking for problems?
We have all the problems you need!



Specific examples

- EXAFS on metal-containing polymer matrices
- SAXS (combined with NMR) on gel networks
- IR microscopy
- Surface diffraction on modified metal surfaces
- Tomography

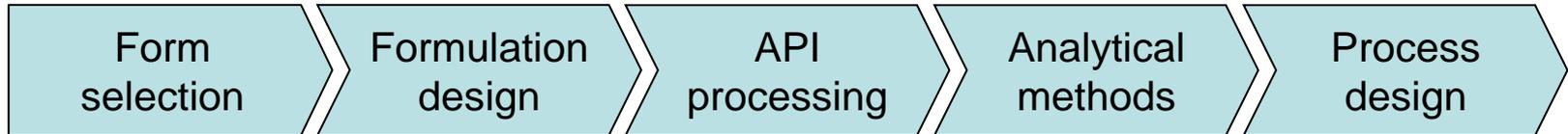
The Large Cosmetics Company



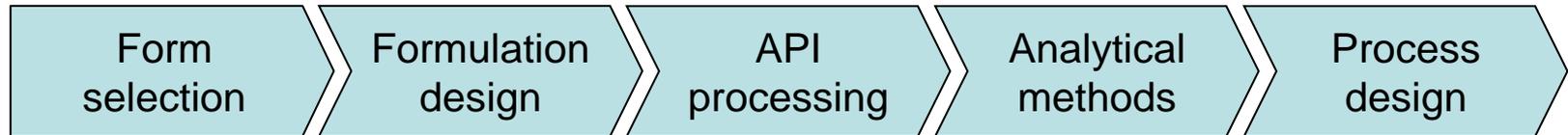
- Working for a better hair day through:
 - Understanding
 - Optimizing
- NMR diffusion
- Electron microscopy
- SAXS @ MAX



Pharma



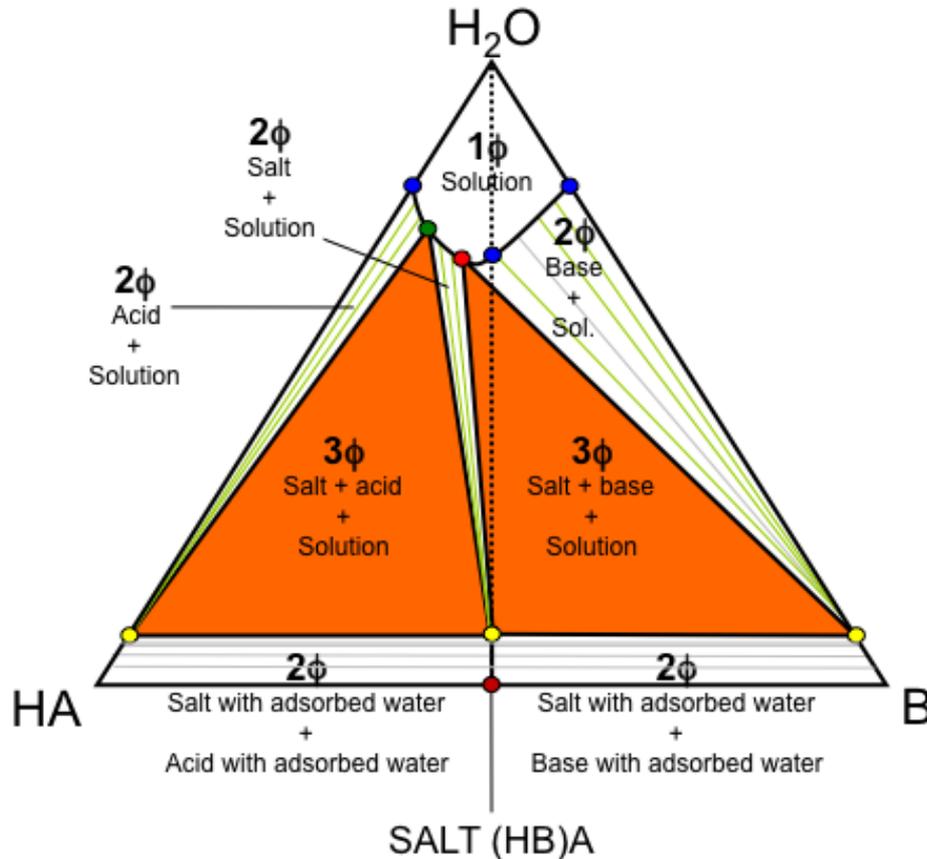
Pharma



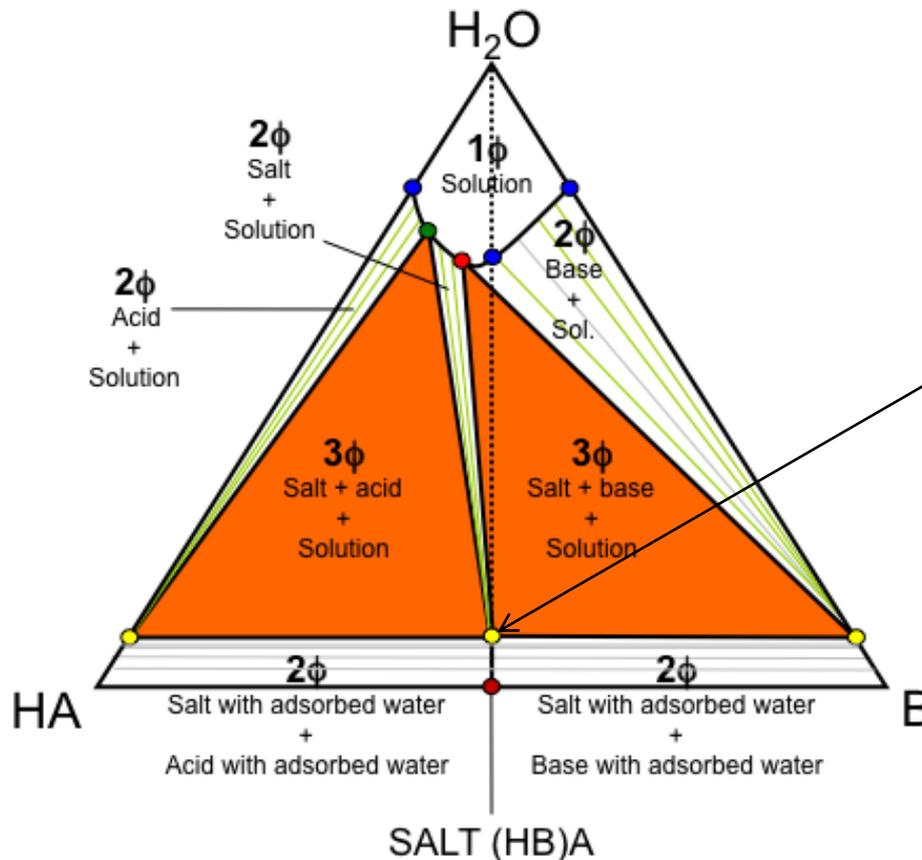
What is the impact of water, in processing and during storage?

Can we understand the interaction between water and pharmaceutical materials?

Finding the critical point in moisture sensitive materials



Finding the critical point in moisture sensitive materials



Where is the water, how much is it, and how does it behave (composition, structure and dynamics)???



Bridging the gap

- : Our customers have needs – not necessarily the right approach**
The apparent need is not always the actual need.
- : Our customers want solutions – not data.**
Data are nothing – applicability is everything.



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