

Geoscientific Information Management System

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Stephen Alpers, Business Development Analyst,

acQuire Technology Solutions

s.alpers@acquire.com.au , Phone: 403 538 2123

Part 1: Industry ‘War stories’

Part 2: Data in the Value Chain

Part 3: What clients said / What we did

'War Story' - Data Management

"Last year we spent \$30 million digging out the wrong stuff because we didn't have the ready data to update our models".

"Our people were confidently loading data, but because the underlying data model was not well designed we struggled to obtain the necessary reports on a timely basis and couldn't meet production deadlines"

"During the GFC, our company let go ~ 140 people including quite a few Geoscientists. We wiped clean their laptops.

We later found out that we had deleted huge amounts of original data.

"It cost a lot!"

War Story: “Our In-house System”

“We had a fantastic in-house database but the guy operating it left”.

“We were not able to understand it or run it, even though it was constructed by a reputable consulting company”

The in-house system cost us \$\$ per year to run. We ended up shelving the database because no one could use it.

In the end, this was “a few million” dollars of sunk cost.

War Story: My External Hard drive dropped on the floor..

We lost all our data!

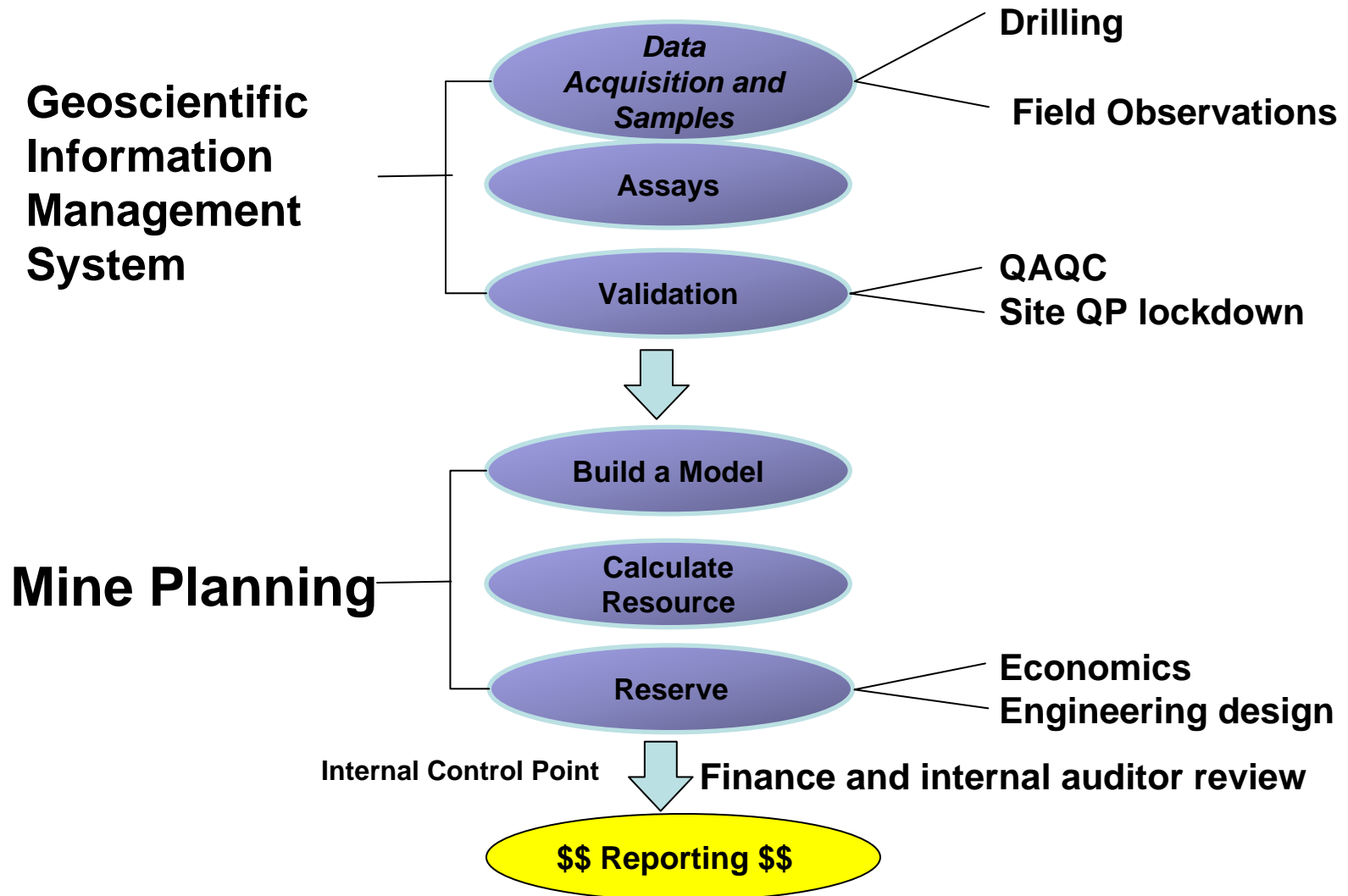
It wasn't backed up and cost >\$10M. We had to re-log

..Pointed Questions

- How often has a resource contained misplaced data or incorrect assay values?
- How many people have 'working' copies of your database or spreadsheets?
- How long would it take to run QAQC stats on your assays for the last year..2 years..3 years?
- Does your data meet the requirements for independent data verification?
- What is the cost of a drill hole if the data is unusable?
- Is your data dependent on the knowledge of key individuals?
- Is your data secure?
- Is data management consistent regardless of region?

Part 2: Data in the Value Chain

Part 2: Data in the value chain



Data Management is fundamental..

- A resource or reserve is as good as the data and assumptions upon which it is built.
- Financial disclosures are directly impacted

- Part 3..
 - What our clients were saying
 - What we did about it.. (build acQuire)

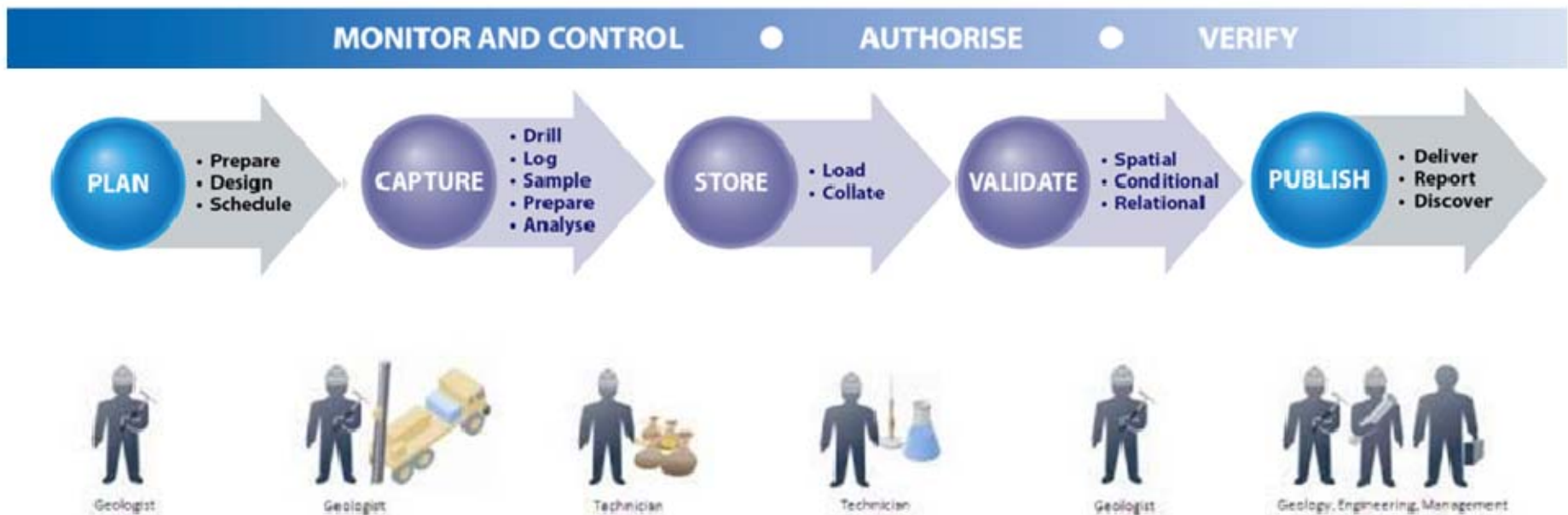
What our clients were saying..

- **Data stored in too many places**
- **Versioning issues, lack of error reporting**
- **Staff turnover**
- **Living in “Excel Hell”**
- **Living in File Soup**
- **Large cost of ‘cleaning data’**
- **Data stores not well validated / verified**

What our clients have been using..

- **Paper logs**
- **File Structures..**
- **MS Excel..**
- **MS Access..**
- **Home Grown DB's..**

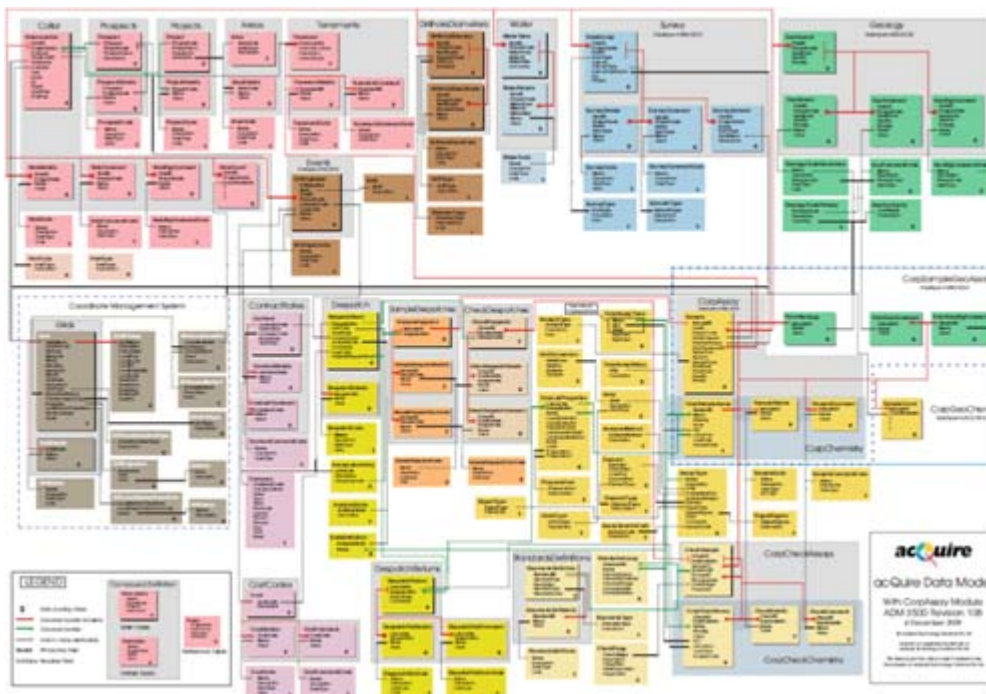
GIMS Business Processes





The Solution...

Geoscientific Information Management Solution (GIMS)



To Centralise
Data Management



Centralised Data Management
means..

Nice and clean

- **Capture, Validation**
- **Manage, Verification**
- **Interrogate, Explore**
- **Deliver, Interoperability**



Interoperability

| Client System | Company | Status |
|-------------------|--|----------------------------|
| MineSight | Mintec Inc | API integration complete |
| Target for ArcGIS | Geosoft Inc | |
| Oasis Montaj | Geosoft Inc | |
| DAP | Geosoft Inc | |
| Vulcan | KRJA Systems Inc (dba Maptek) | |
| MapInfo Discover | Encom Technology Pty Ltd | |
| FracSIS | Runge | |
| Datamine | Mineral Industries Computing Group Ltd | |
| Minex | Gemcom Software International Inc | |
| Surpac | Gemcom Software International Inc | |
| Leapfrog | Zaparo Ltd | |
| GEMS | Gemcom Software International Inc | Export plug-in implemented |



Business Philosophy

“Your company's data is a primary business asset. It has the potential to add enormous value to every aspect of your organization..... You need to manage it aggressively.”

“Getting the most out of data and information is largely an issue of management and leadership”.

Thomas Redman – Data Driven (2008)



End Result?

- Reduced corporate risk (data confidence improved and auditable)
- Geology Department Ownership
- Improved Models
- Greater efficiency
- Faster turnaround
- Etc..