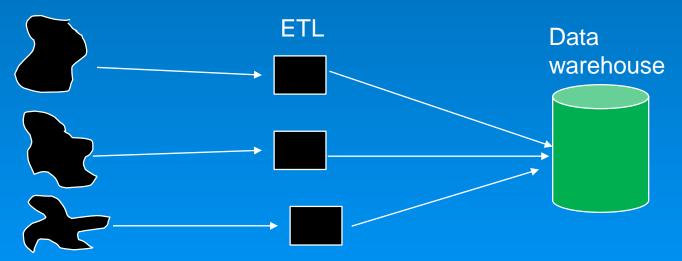
LAKEHOUSE AND WAREHOUSE – A COMPARISON

A presentation by W H Inmon



applications



The data warehouse infrastructure



A fundamental transformation of data occurs

applications



Gender – m/f Distance - inches



Gender – male/female Distance - feet



Gender – 1/0 Distance - cms Data warehouse



Gender – m/f Distance - feet



Data warehouse



Data warehouse –
subject oriented
integrated
non volatile
time variant
collection of data for management decisions

The single version of the truth



Data warehouse



Historical data as well.





Structured, transaction based data



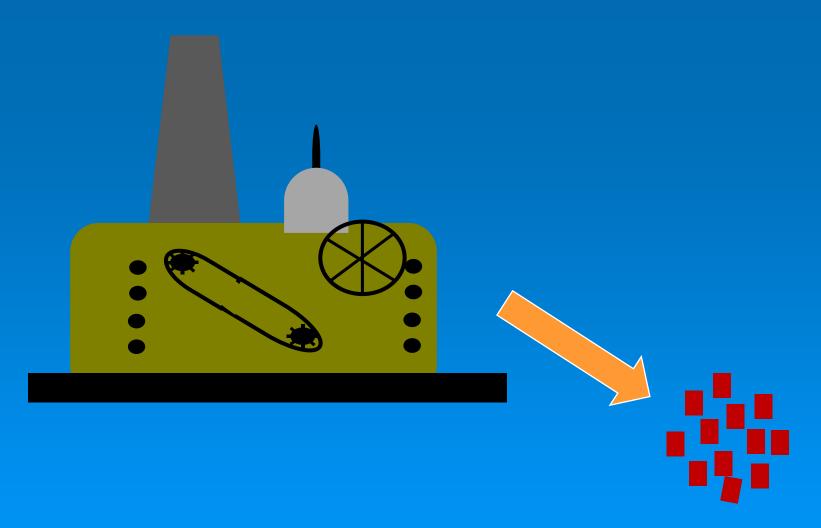






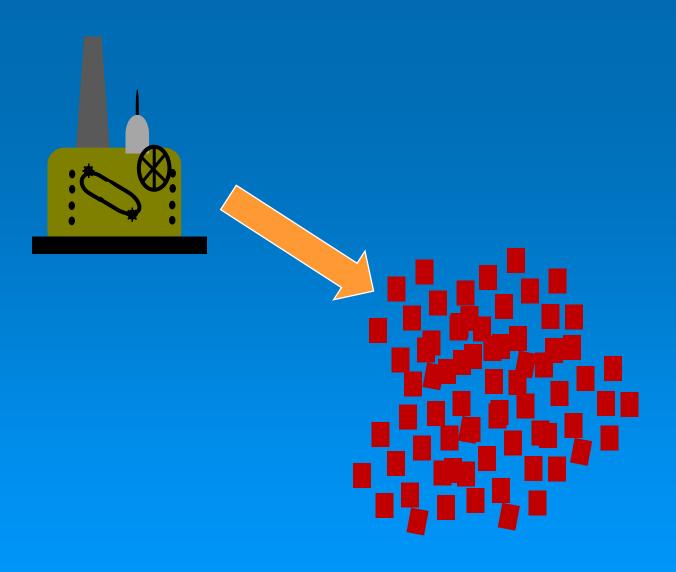
The data lakehouse





Machine generated data



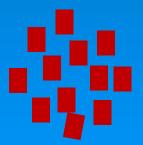


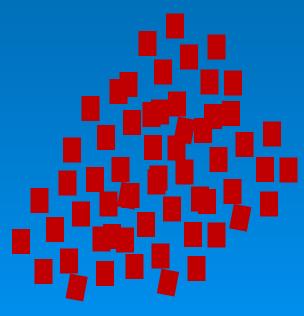
A lot of data generated



Some data has high business value, much data has little business value

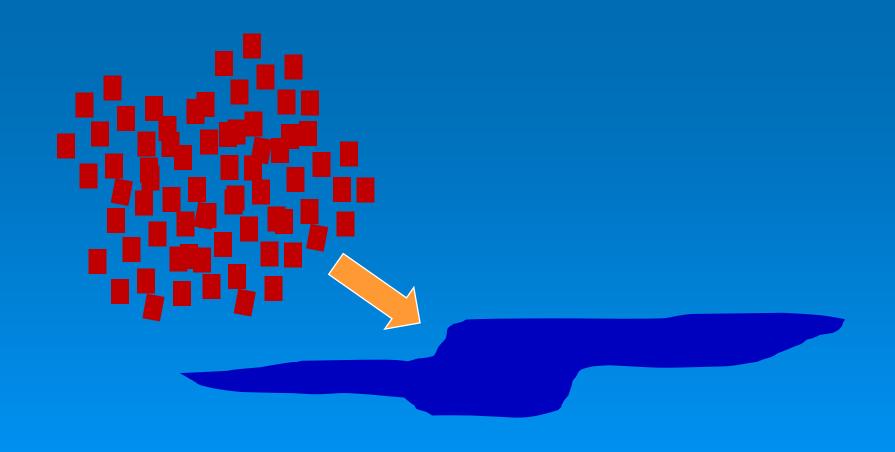
High business value





Low business value

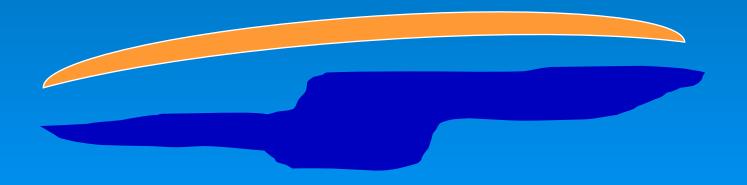




The data is put into a data lake



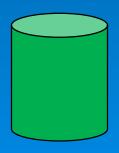
An analytical infrastructure is placed over the data lake







The data lakehouse



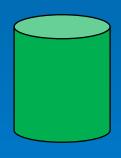
The data warehouse

How are the data lakehouse and the data warehouse The same? How are they different?









The data warehouse

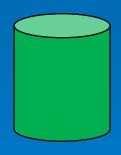
The same -

Both exist to serve analytical processing
Both have vetted data – accurate, reliable
Both can look at data over a long period of time
Both have tame variant data
Both have data that once recorded cannot be changed









The data warehouse

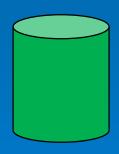
Different -

There is MUCH MORE data in the lakehouse
The data is fundamentally different —
warehouse data is transaction based data
lakehouse data is machine generated data
The data structures are very different
Relating the two types of data is difficult to do









The data warehouse

Like cousins -

Related yet still different



