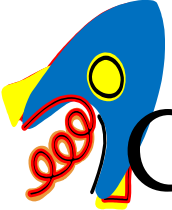
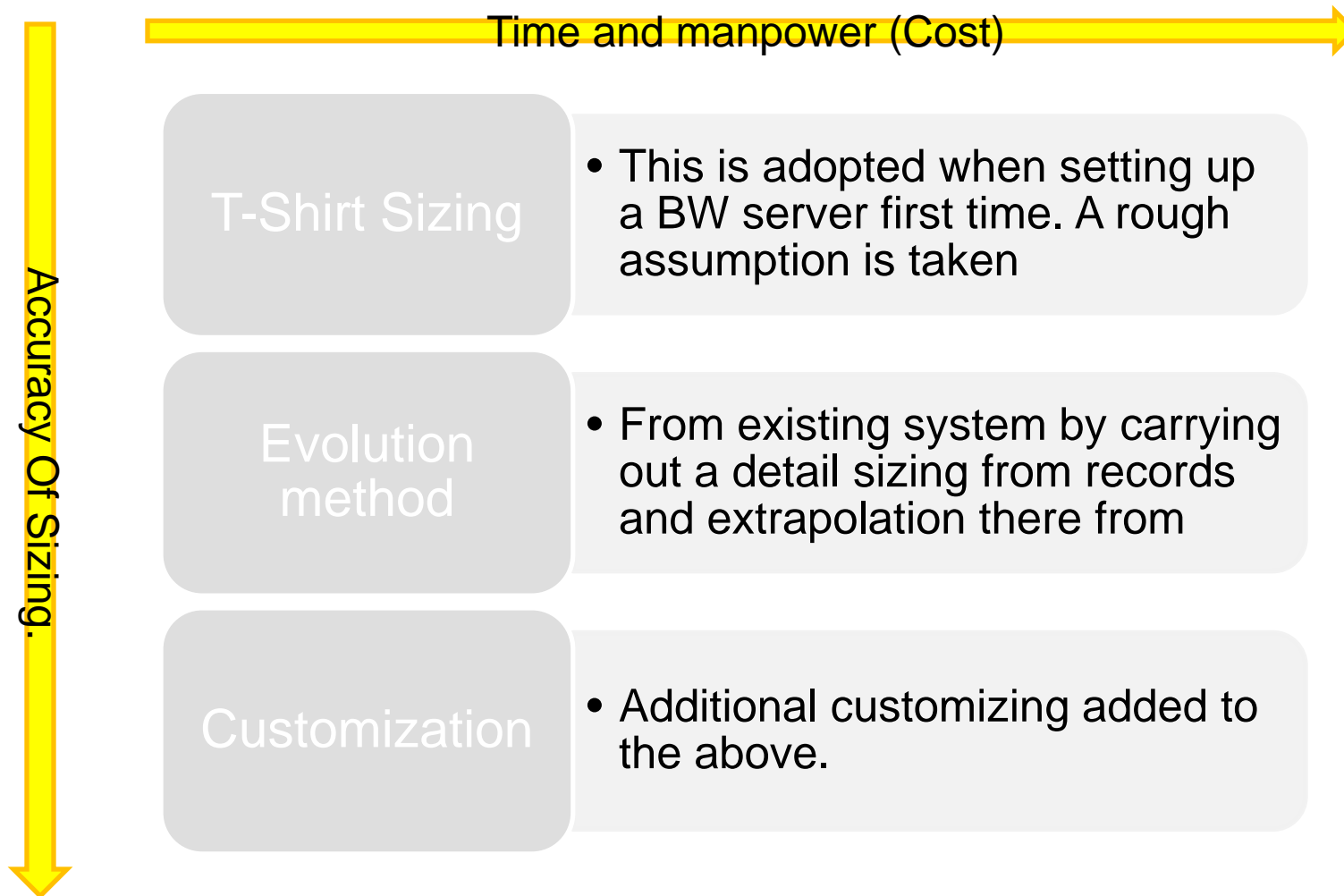


SAP BW Sizing

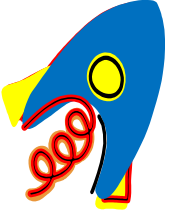
Storage



Common Approach for Sizing

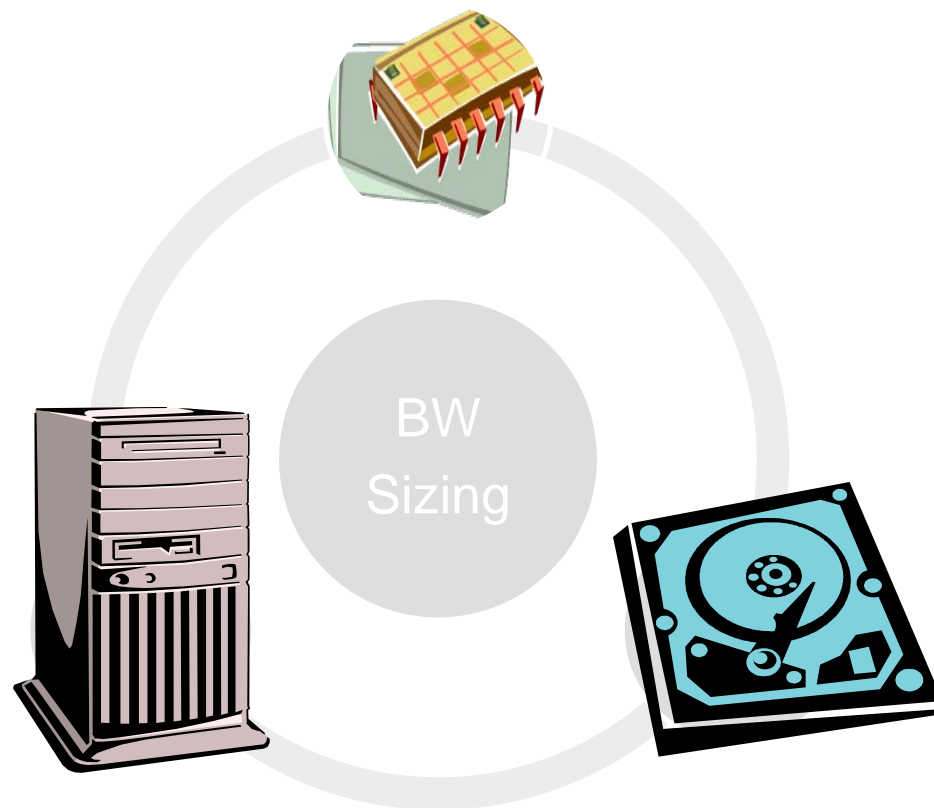


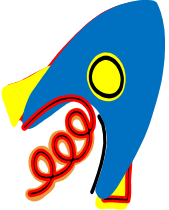
The better the sizing the more resource



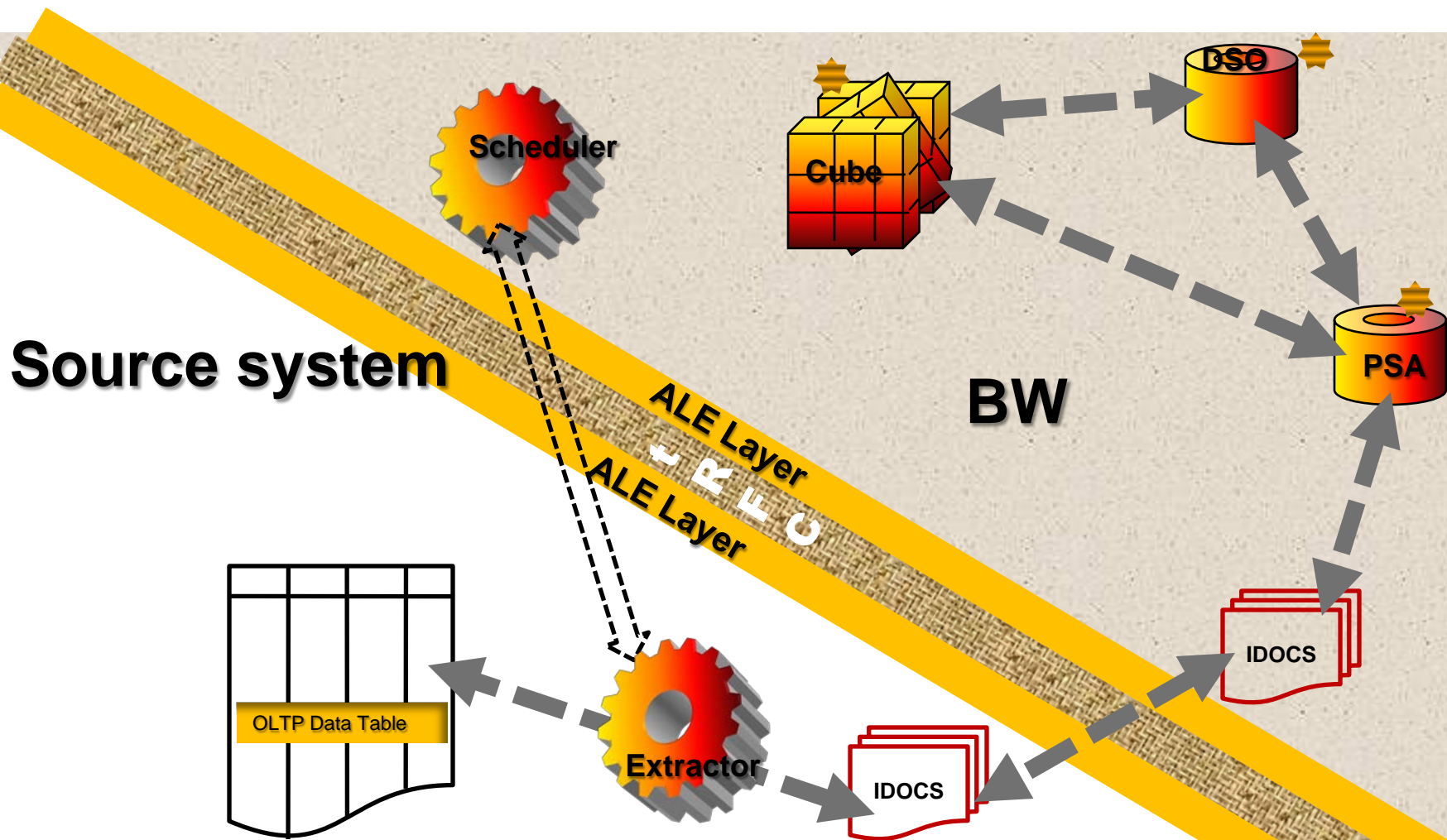
The Components

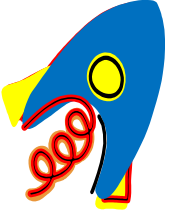
- The processing power
- The Memory
- The storage



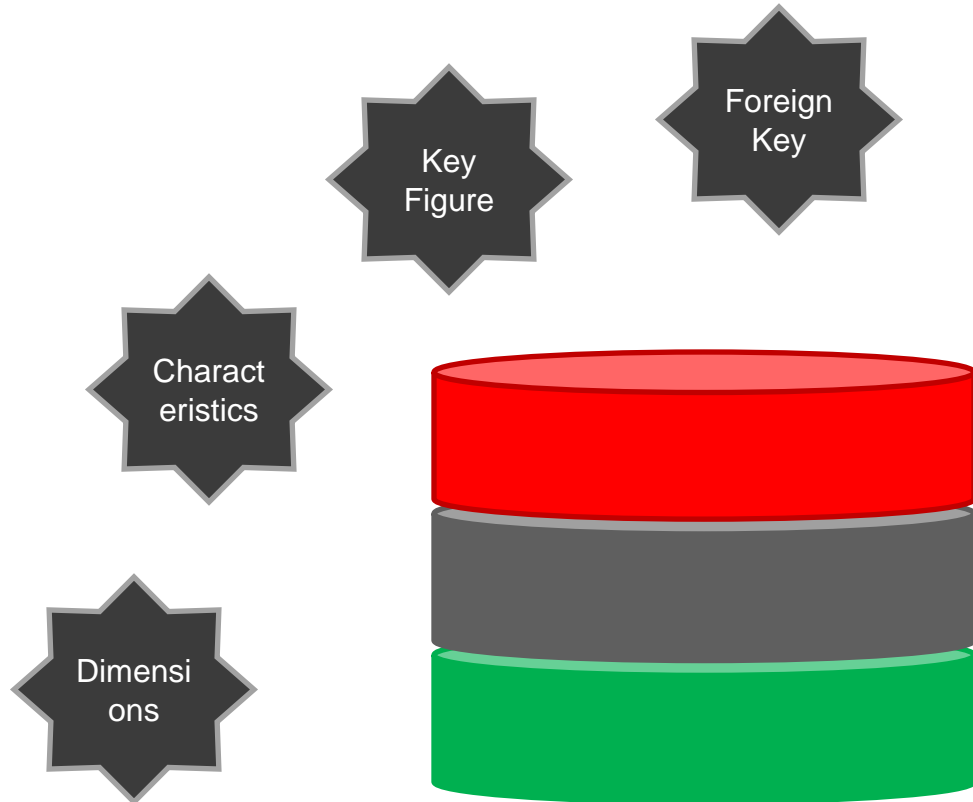


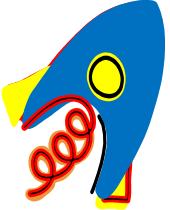
BW loading process & Data Containers



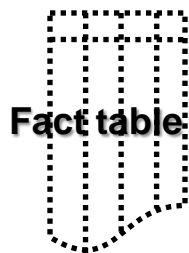


Containers Elements





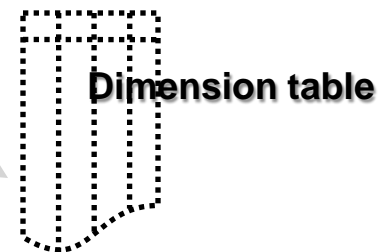
Details Of containers – InfoCubes



- ▶ Dimension Table
 - Key Field => kd
 - How many characteristics ? => cd
 - How many records ? = nd

➤ Fact Table

- ❖ Dimensions – How many dimensions ? => xf
- ❖ How many key figures ? => yf
- ❖ How many records ? = nf

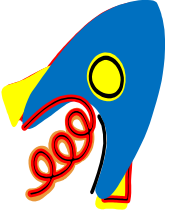




Fact Table – something more

- So what is the size of a fact table?
 - ❖ $((\text{Count Key Figure} \times \text{Key Figure Size}) + (\text{Count of Dimensions Foreign Key} \times \text{Dimension Foreign Key Size})) \times \text{Count of Total Records in the Fact table Averaged in a year.}$
 - ❖ Decide on yearly variance of records.
 - ❖ Project for n Years for the future.

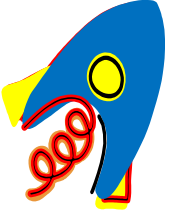
Key figure size 17 bytes and dimension foreign key size 6 bytes each



Dimension table – Something more

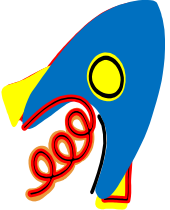
- Size of a Dimension table is calculated by...
 - ❖ (Dimension Key Size + Count of Characteristics X Size of Characteristics) X No of records in Dimension table
 - ❖ Decide on yearly variance of records.
 - ❖ Project for n Years for the future.

Dimension key size 10 bytes and characteristics size 10 bytes each



DSO/Info Objects ...

- DSO consists of three types of fields.
 - ❖ The character field. Take an average for the lengths of the character fields used. *Slightly tricky isn't it? But your efforts ... Will be of real worth.. Here you need a lot of investigation...*
 - ❖ The date field....About 8 bytes.
 - ❖ The numeric fields size is of 17 bytes.
 - ❖ No of records in the first load.
 - ❖ Average no of records in subsequent delta loads...
 - ❖ Guess a variance on the delta loads.
 - ❖ No of delta loads in year and finally
 - ❖ Project for *n* Years for the future.



What else? PSA? Indexes? Master Tables? Logs

PSA

- Vices as well as virtue. Occupy a lot of space if designer is in dilemma to finalise the design
- Ideally should not be allowed for more than 25 % of (Fact + Dimension + PSA)

Indexes

- Lot of indices, most of them are bitmap, catering the complex queries.
- Cube size +DSO Size

Master

- 15 % of the total i.e. (Cube size +DSO Size)

Logs

- 15 % of the total i.e. (Cube size +DSO Size)

Cube Size = Dimension Table Size + Fact table Size

