1



Peter.Thomas@Steria.co.uk











## Data collection

- Folks don't typically deliberately supply bad data to disrupt the analysis and reporting, but a dumb data collection tool obliges them to know exactly what's wanted (and how it's spelt). There are too many demands on the data owner's time to enable them to acquire this knowledge.
- The process creating the data may not provide sufficient accuracy or may be over engineered and provide values (at unnecessary expense) which are more accurate and auditable than the decision making from the reports requires.
- Is all the data necessary ?

- Seize every opportunity to make the data collection tool smarter. – Context sensitive forms

  - Selecting values from listsData validity checks eg end date
  - must be later than start date Periodically review and update
- help and off-line guidance Get empowered as a critical
- reviewer for processes
  Periodically review the data required and revise data collection forms as necessary.













## Data analysis

- Getting the analysis right is difficult, easy to be too trivial or too complex
- It has to be performed consistently each month (period)
- The mapping of raw data to derived data to reports can become complex.
   Do you know which data is used for which reports ?
- Whilst statistical robust analysis may be required for a CMMI ® class A appraisal this is typically a "sledge hammer to crack a nut".
- Automate as much of the analysis as possible however this may involve using more than one tool (software application).

13



## **Decision making**

- Measurement by itself only provides data & information. It doesn't change processes, except that staff will try to get better at whatever is being measured. The organization needs to decide on the software process improvements to implement and to use measurement to decide if the improvements are helping it achieve its goals.
- Decisions are not made using the reports because the data or analysis is not trusted

- Some stakeholders are more skilled and supportive than others. They are your best allies to convince the others.
- Ensure you have the correct balance between
  - do the do
  - and tracking and demonstrating what you are doing.

15











