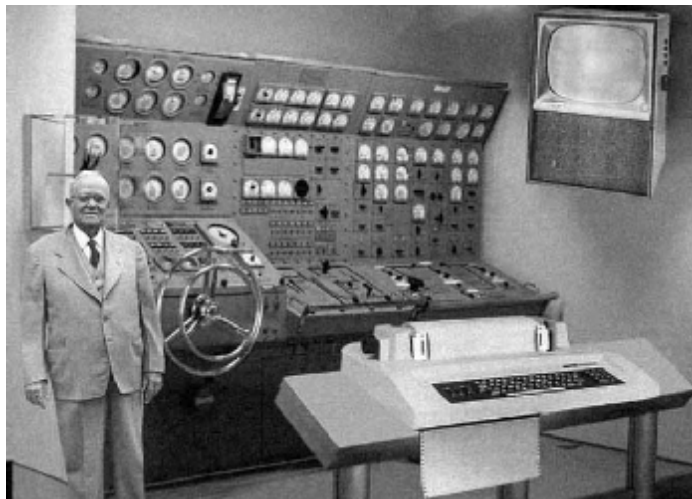


The Future of GIS

...if I really knew, would I still be here?



Scientists from the RAND Corporation have created this model to illustrate how a "home computer" could look like in the year 2004. However the needed technology will not be economically feasible for the average home. Also the scientists readily admit that the computer will require not yet invented technology to actually work, but 50 years from now scientific progress is expected to solve these problems. With teletype interface and the Fortran language, the computer will be easy to use.

Popular Mechanics, 1954???



Uses of GIS: *no change*

The primary three:

- manage data
- analyze data
- communicate information*

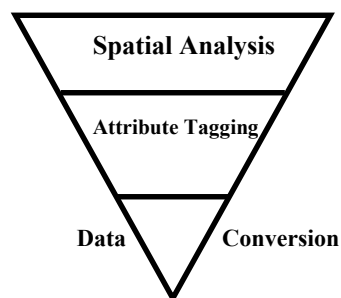
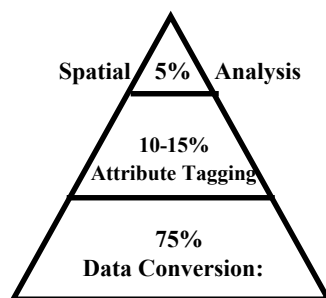
BUT

- relative importance shifting
- implementation technology changing

*information=data which serves a purpose

Changing Emphases:

From Data to Analysis



Past

Present/Future

發展方向

- 圖形資料與屬性資料整合程度提高
- GIS與RS整合
- GIS與GPS整合(例如In-Vehicle Navigation Systems、LBS)
- GIS與專家系統整合

關鍵議題

- 設計與執行
- GIS軟體所包含功能問題
- 操作介面
- 深度加工或進階分析
- 視覺化與虛擬實境
- 多媒體與GIS
- 資料格式與標準

GIS發展重點

- 物件導向(object oriented GIS, OOGIS)
- 時間與空間系統
- 地理模型建構系統(分析功能之自動化)
- 3D GIS
- Web GIS
- 教育訓練與普及化

