

# It's too easy!

- PC caused IT heartburn
  - No controls on who computes
- Cloud will cause major IT heartburn
  - All it takes is a credit card
  - Anyone can launch a cloud
  - And there are no limits

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# Cloud Advantages

- Dynamic, cost-effective scaling
  - Processing, storage, access
- Complexities hidden from users
  - No need to worry about how it works
  - Anyone can create their own cloud
- Compelling, ...
  - especially in tough times

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# Can't Control A Cloud

- Law of requisite variety
  - For A to control B, A must be able to recognize all significant states of B
  - Ain't no way I'm gonna recognize all significant states of a cloud
- Control – Not An Option

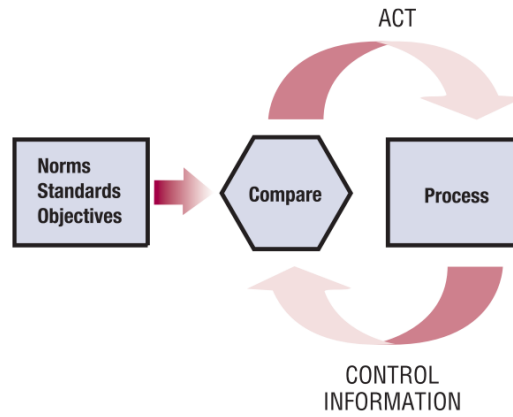
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# COBIT

- Was all about control
  - Control OBJECTIVES for Information and related Technologies
- Has changed/Is changing
  - Now about IT governance
  - Has added Val IT
  - Is adding Risk IT

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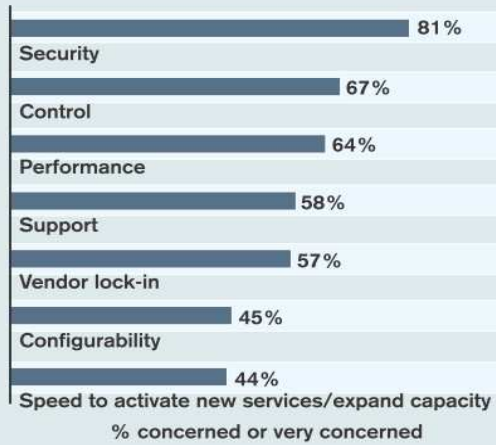
# Cobit Control Model



Classic Feedback Loop

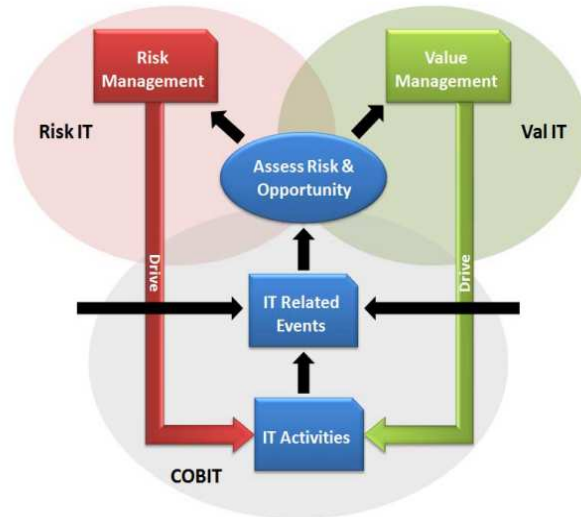
# Cloud Concerns

Are you concerned with the following issues as they relate to cloud computing?



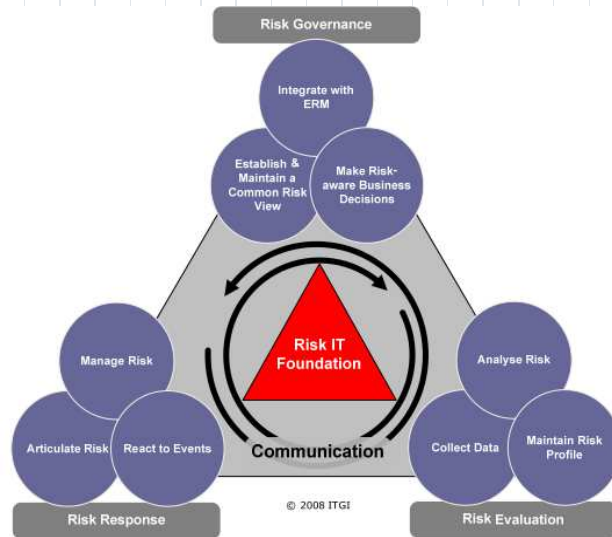
Data: *InformationWeek* survey of 172 business technology professionals receiving or considering cloud services

# ITGI – Big Three



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# Risk Model



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# Risk Scenarios



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# Solid Risk Management

- Assumes access to knowledge
  - Know when risk event occurs
- Assumes entity control possible
  - Can remove/replace components
- Cloud doesn't support assumptions
  - Hard to know what's going on
  - Hard to move components around

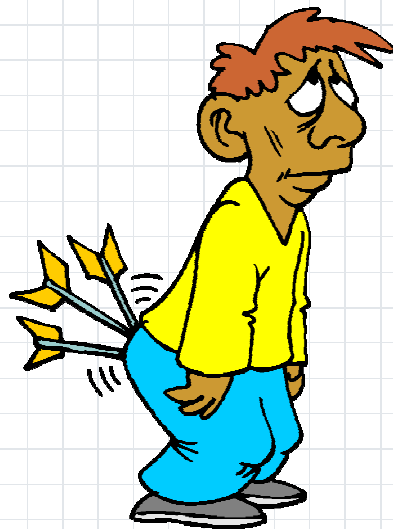
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## How to Proceed?

- Very real cloud benefits
  - Right application, right users
- Real risk management problems
  - Requires new approaches
- Option: Proceed if risks acceptable
- Option: Pioneer with new approaches

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## Pioneers can suffer ...



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