

DARK CLOUDS: SAFETY AND SECURITY ON THE NET

Dr. Imad Hoballah

Acting Chairman and CEO

Head of Telecommunications Technologies Unit
Telecommunications Regulatory Authority (TRA),
Lebanon

imad.hoballah@tra.gov.lb

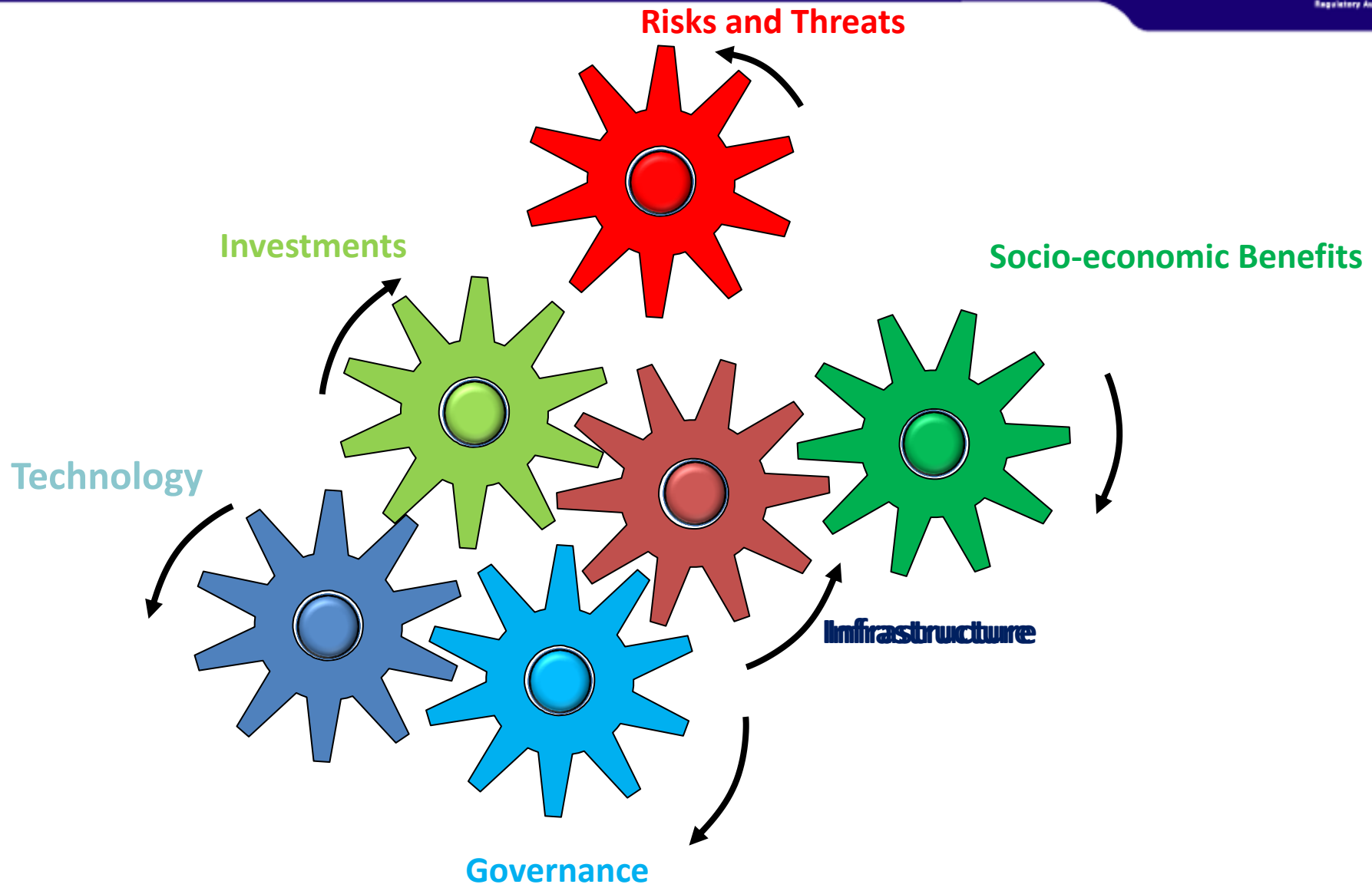
GSR12, Colombo, 2-4 October, 2012



- Introducing the subject
- Introducing the panelists
- Introducing the presenter
- Online Threats from User's Prospective: Data Protection and Privacy Issues
- A couple of questions from the audience
- Few questions from the panel
- Back to the audience

Cloud Computing Wheels of Development

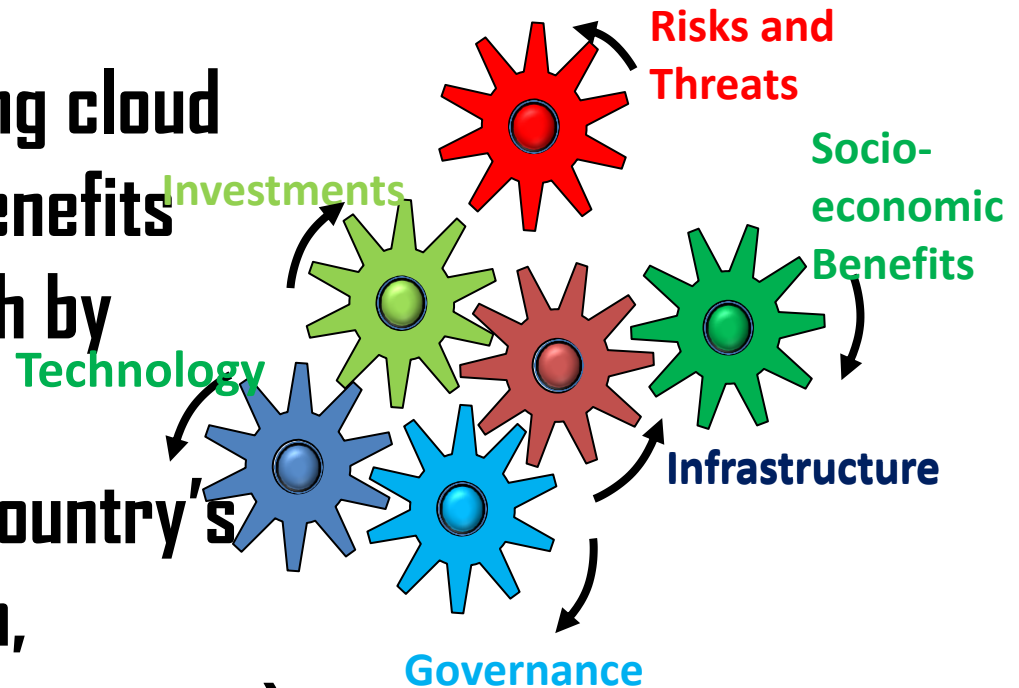
Normal Governance with no Risks or Threats



Cloud Computing Wheels of Development

Normal Governance without Risks or Threats

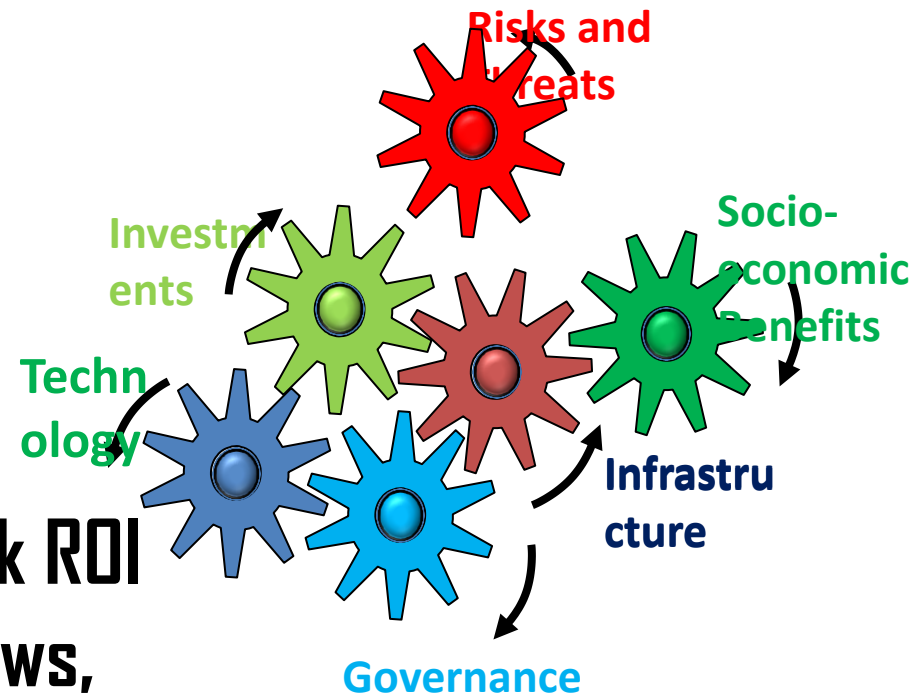
- Training acceleration using cloud
- Focus on e-Education's benefits
- Promote economic growth by involving SMEs
- Efficient tool to achieve Country's objectives (Remote health, microfinance, reduce poverty, etc.)
- Economic growth and social benefits, job creation and increase in GDP
- Freedom of speech and expression



Cloud Computing Wheels of Development

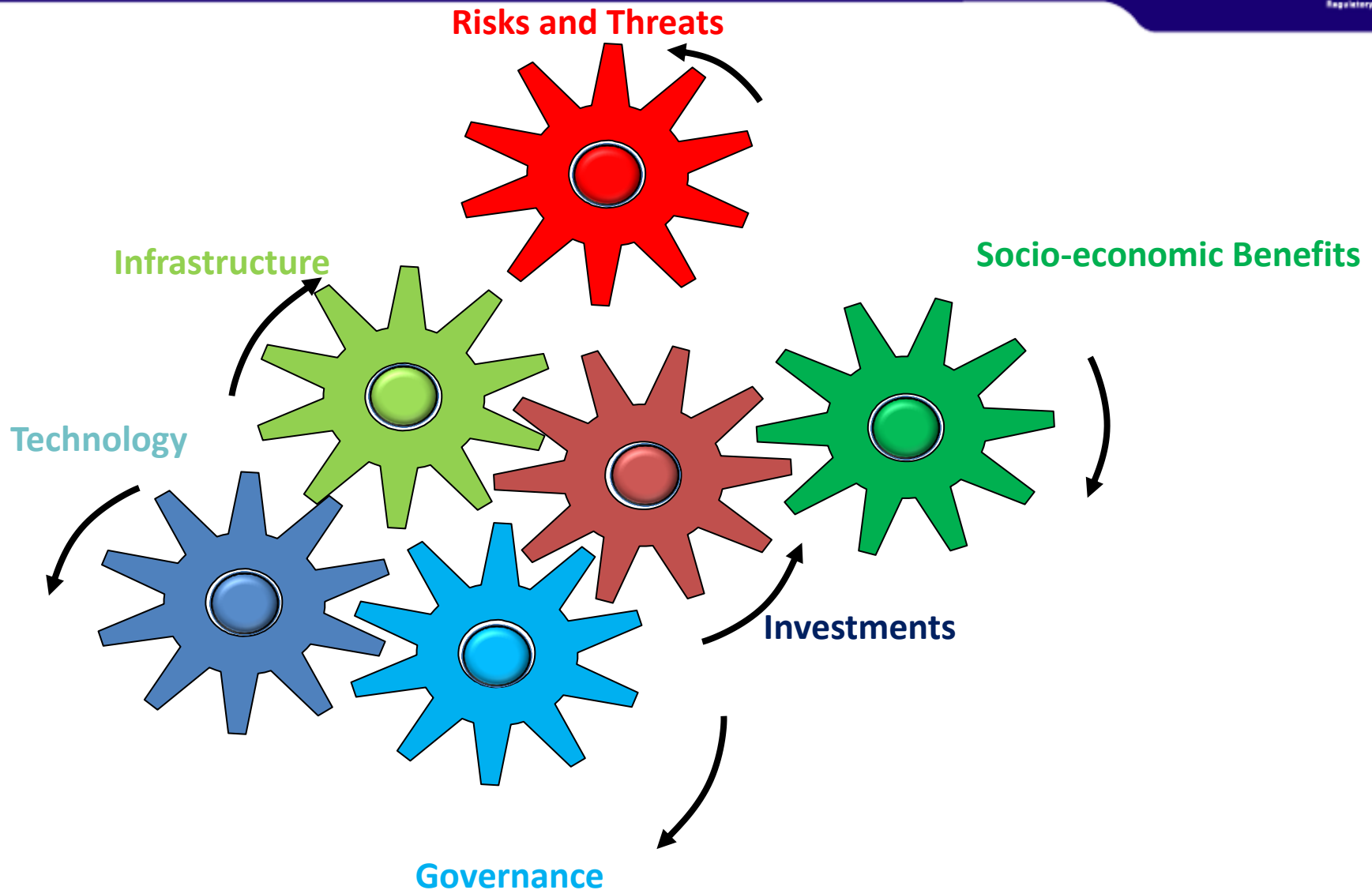
Normal Governance without Risks or Threats

- Local investors
- Regional investors
- International investors
- Cloud models secure a quick ROI
- Investment environment (laws, lower taxes, ease of doing business)
- Investment needed for fixed BB



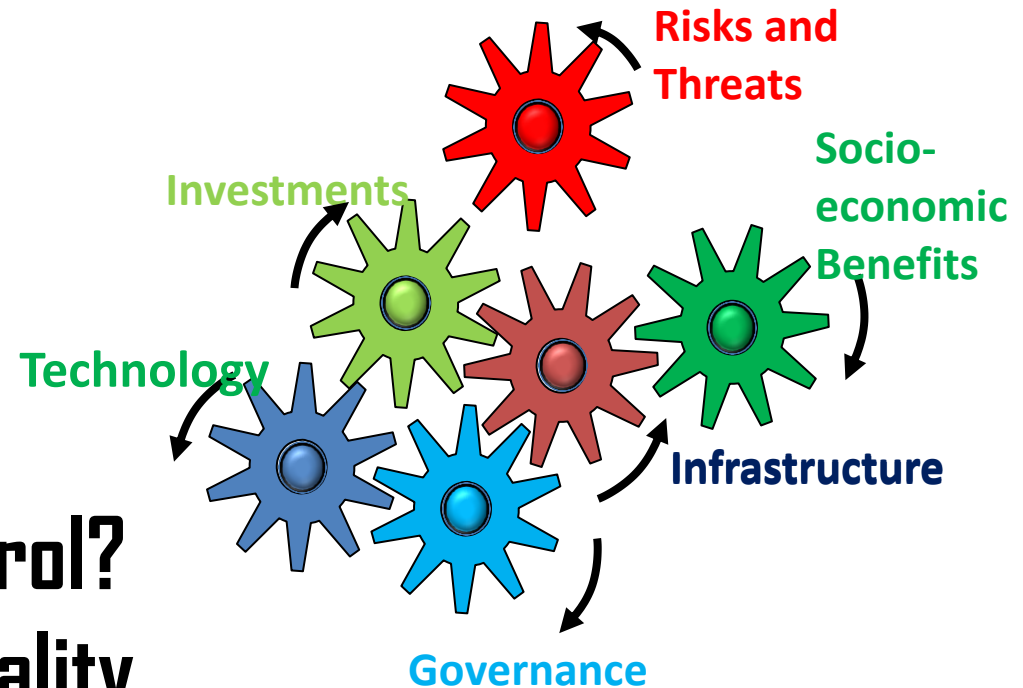
Cloud Computing Wheels of Development

Normal Governance with **Risks** and **Threats**



Cloud Computing Wheels of Development

Normal Governance with **Risks** and **Threats**

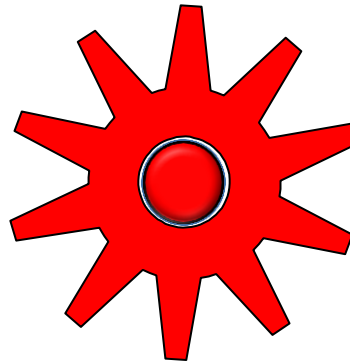


- **Data location and control?**
- **Privacy and confidentiality**
- **Data security and integrity**
- **IPR and copyright protection**
- **Oppression and repression (Freedom!)**

Cloud Computing Wheels of Development

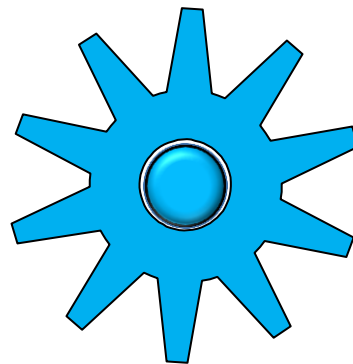
Heavy handed Governance with Risks and Threats

Risks and Threats



Slowing down economic growth due to:

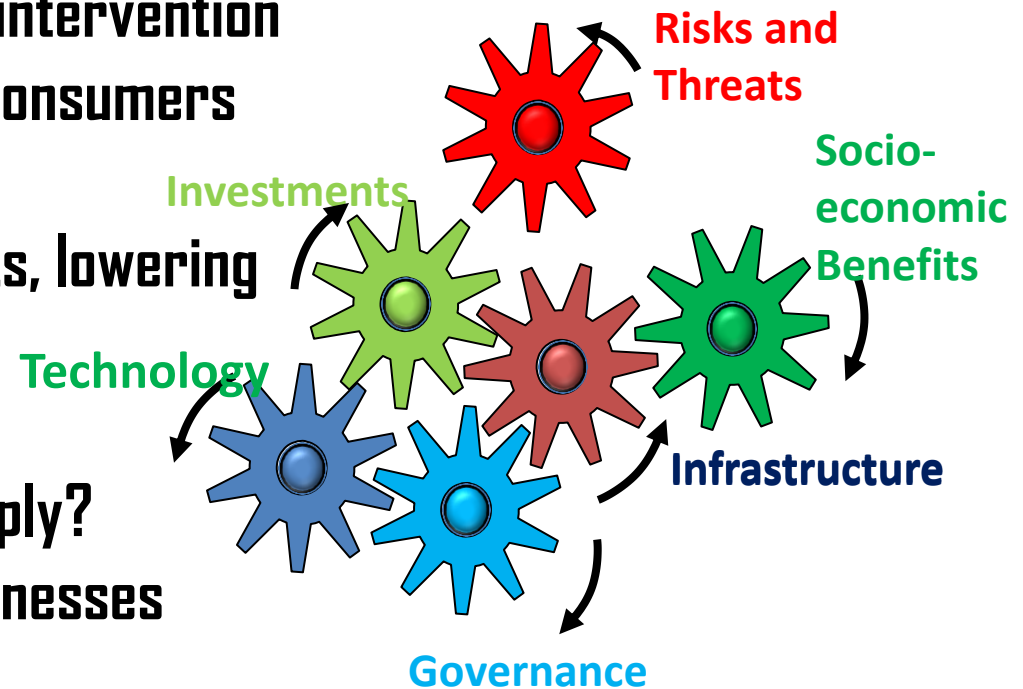
- Threats to establishment of new businesses
- Threats to investments
- Threats to cooperation
- Potential oppression and repression



**Heavy handed
Governance**

Wheels of Cloud Computing – Normal Governance with Risks and Threats

- “Do no harm”, close to “hands off”?
- Self-regulation or government enforced standards?
- Framework for legal protection + monitoring without government intervention
- Cooperation between industry, consumers and government on policy
- Business environment (laws, acts, lowering taxes, etc.)
- Encouraging competition
- Which law enforcement rules apply?
- Encourage Small to Medium Businesses
- Look for Safe and Secure Cloud/Communication



- Traditional online threats are increasing
- Users are unable to exercise any meaningful control over personal information online
- CC represents one of the most significant shifts in IT
- Users are both excited & nervous at the prospects of CC
- Excited about
 - The opportunities to reduce capital costs
 - A chance to divest of infrastructure management
 - Focus on core competencies
 - The agility offered by the on-demand provisioning of computing and the ability to align information technology with business strategies and needs more readily

User Concerns:

- The risks of CC not properly secured
- The loss of direct control over systems for which they are nonetheless accountable

The online threats posed by CC services

- Start with the “Loss of Governance” on user's data which could result in reduced freedom when it comes to replacing a cloud provider
- The lack of physical control over data storage, reliability of data backup, and countermeasures for Disaster Recovery

Commercial and operationally, the clouds introduces:

- A cost efficient security solution with some critical features such as Resource Concentration with ability to rapid scaling
- Easy security service administration
- Effective and Efficient Check, Update, Audit and Sample-gathering

- There must be a balance between free flow of information and security concerns
- The society cannot move ahead with technology advances that rely upon individual or personal data without addressing user privacy
- Regulators have a critical role to ensure such balance by promoting policies that raise confidence and trust in cloud services
 - Avoiding restrictive regulations that create barriers to market entry
 - Ensuring data privacy and security
 - Handling dispute resolution at national and international levels