Grid computing architecture enables organizations to share data resources and manage computing, storage, and network resources in different geographical locations. Business areas such as life sciences and financial services use grid computing business applications to achieve both business and technology benefits.

Consider your company or one with which you are familiar, and give one example of how grid computing is or could be beneficial in the future.

What is referred to in the course text as '***grid computing***' some are also familiar with as '***wire frame rendering***' as in the example on page 191 where it depicts an example of '***Shrek .***'

Of course the concepts go together. One could not have a wire frame without grid style reference. This combined with the functions of the software and programmed components pass the instructions back and forth sending and receiving information to be displayed, modified or paused. Very cool, fun and interesting.

How this will benefit One Road Many Paths is through scientific developments that I will be working on for the Blind and Talented Foundation whereby; technology will be developed to allow for hearing and seeing enhancements; going through these models based on the acoustic reflections of a 360° environment similar to the studies for Becks recent '*Sound and Vision Re imagined.*' Others have developed the technology, but the 'Grid Guru' that gets my vote for future applications is Chris Milk in the sense of where he is taking this; by combining all of what is grid technology and all of what is interactive and all of what is social media...throw in pop culture with a nod to digerati elite and here we have;

"A Different Canvas: Chris Milk (Future of StoryTelling 2013)"

Retrieved from: https://www.youtube.com/watch?v=5EFd4_dLBds

Not forgetting its own roots, the Tale of the "...***MIS Infrastructure***" trilogy (Figure 5.1 p177 and below) also holds my interest, which I can share as being;

Information MIS Infrastructure (IMI):
(As a data dinosaur from this era, this helps me understand the MIS role of this section by todays standards) The book defines this traditionally as the areas of "*Backup, Recovery, Disaster Recovery and Business Continuity Planning.*" (p. 177)

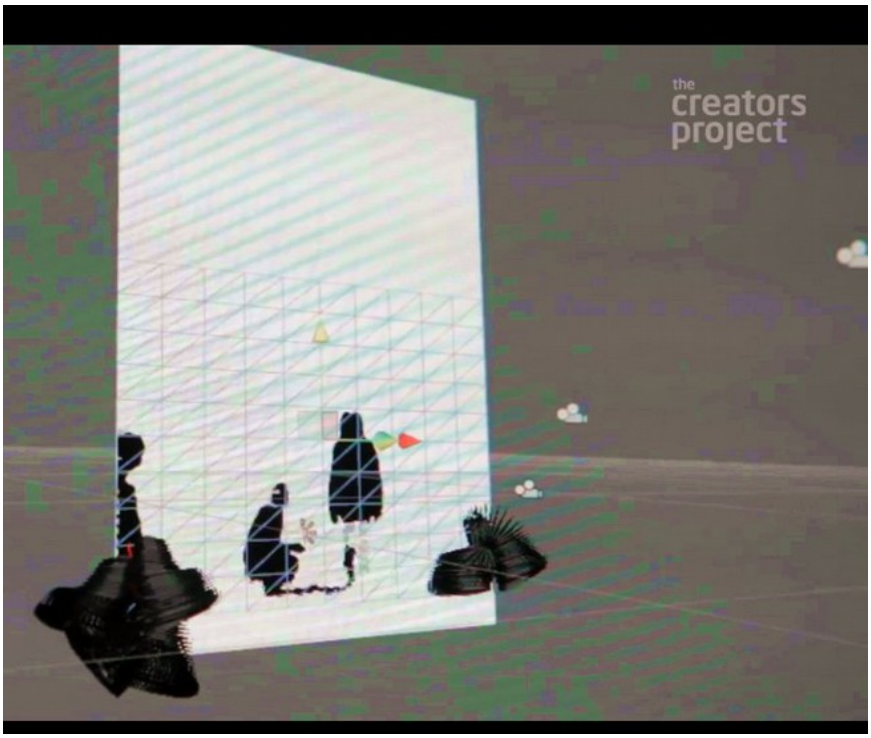
Agile MIS Infrastructure (AMI):
This area, which includes; "*Accessibility, Availability, Maintainability, Portability, Reliability, Availability and Usability*' (p. 177) is generally within the roles and responsibilities of the programmers, software and technology specific to making these functions happen.

Sustainable MIS Infrastructure (SMI):
Here we have "*Grid computing, Cloud Computing and Virtualization.*" (p. 177)
Truly, these do all tie together. What the IMI suggests in planning is continued through the AMI, ultimately fulfilling the role of SMI to continue and make ready virtual accessibility.

Once within the grid, and/or operating as a 'Cloud-based' entity doesn't mean to deny the areas of the IMI, specifically Disaster Recovery, Security and Backup. The news is filled with stories of cloud-based providers who were recently hacked. The cloud is not without concerns. Thus, it all loops back together, as the technological landscape, user-base and market is constantly changing, it must cycle in on itself to survive...this could only be 'purely' possible through combination of all of these elements.

Back to the grid, I can see the grid in front of me as as a former programmer and special projects managers (Today's title for the same duties, is called '*Enterprise Architect.'* (p. 176) I appreciate the levels of backup forming the MIS backbone, and through such same prior efforts know fully well the value and importance of backup and redundancy plans. In the stock market, where these programs were applied, we actually developed (*at my suggestion*) what I refer to as 'Tri-Dundancy' offering three concurrent levels of backup.

My grid visual would be that (*choose any fore and background colors you prefer to imagine*) take a spreadsheet as you know it, then wrap it around any **3D** object, taking in all of those active reference cells, and making them contain instantly computer translated data rather than numbers, as we know, but this eventually gets broken down into binary elements, then applied to the devices or outputs as programmed. Chris Milk has done for his installation for 'The Creators project.'



Retrieved from: https://www.youtube.com/watch?v=I5__9hq-yas

Explain the processes that should be put on the grid and the business benefits of doing so.

While Green Cities exist, such as users of the Smart Grid in Boulder, Colorado (page 192) other companies are integrating grid-like behavior into their systems such as Xfinity and AT&T to also allow for remote control managed devices and to maintain a competitive stance.

As discussed, other Grid-based technology such as animation, and dimensional virtualization are ideally suited for these applications. They also make for amazing and interesting films and installations.

The incredible movements of the Triptychs in the works by Chris Milk for '***The Creators Project***' are even more enchanting because you know that your movements are being translated and converted in real time.

With installations and applications such as these to inspire, provide and allow for further developments in Grid technology; including and applying such technology socially and interactively, in addition to the current ways Grid technology is used, provides for a thrilling and adventurous future filled with possibilities.

Reference

Baltzan, P. (2014). Business driven information systems (4th ed.). New York, NY: McGraw-Hill/Irwin.

Retrieved from:

https://www.youtube.com/watch?v=5EFd4_dLBds

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