



ORACLE CORPORATE CITIZENSHIP



# ORACLE®



## Technology's Role in 21<sup>st</sup> Century Formal Education

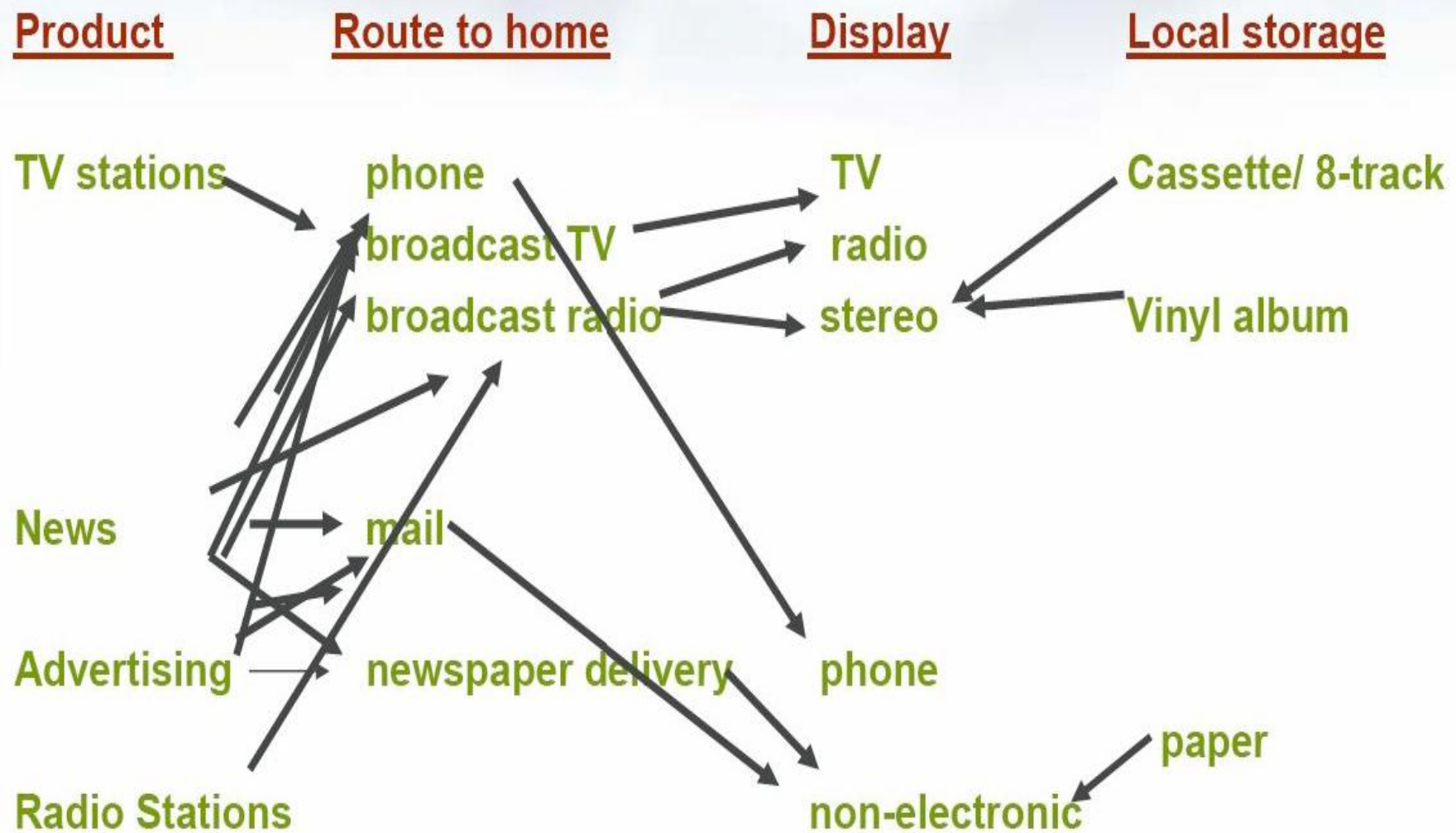
Presented during MIT LINC-2010 Conference

Krishna Sistla

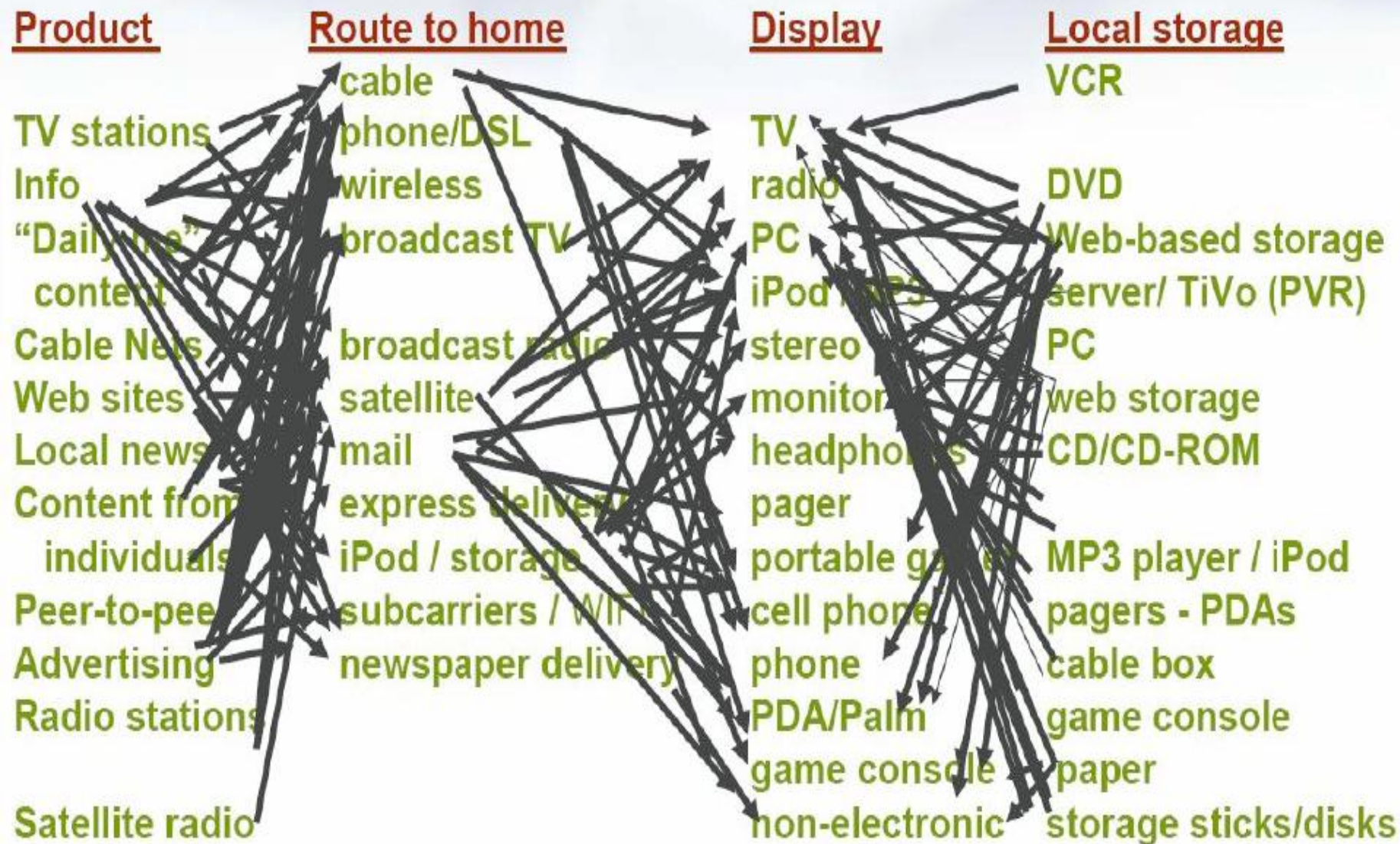
Regional Director - Oracle Education Initiatives, Asia Pacific and Japan

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# Home media ecology - 1975



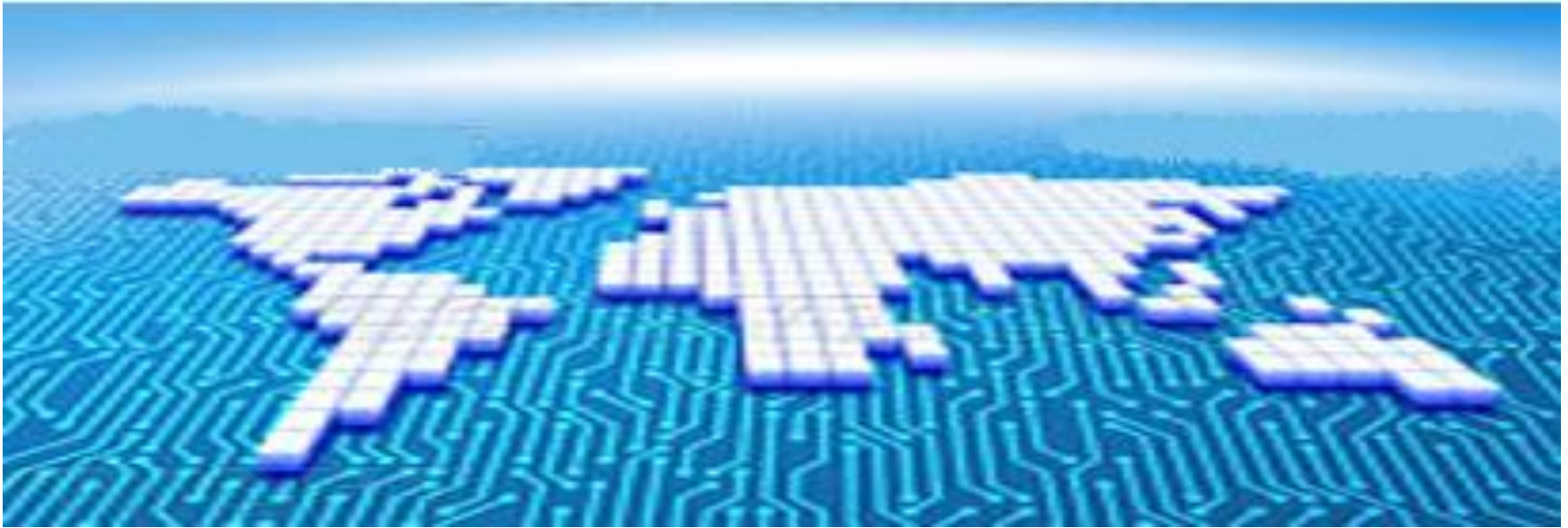
# Home media ecology – now



# Why 21<sup>st</sup> Century Learning matters!

**Great reasons why this really  
matters to *you*,  
to your *schools*,  
to your *communities*,  
to *education*,  
and to all *students* everywhere!**

# The World is Flat!

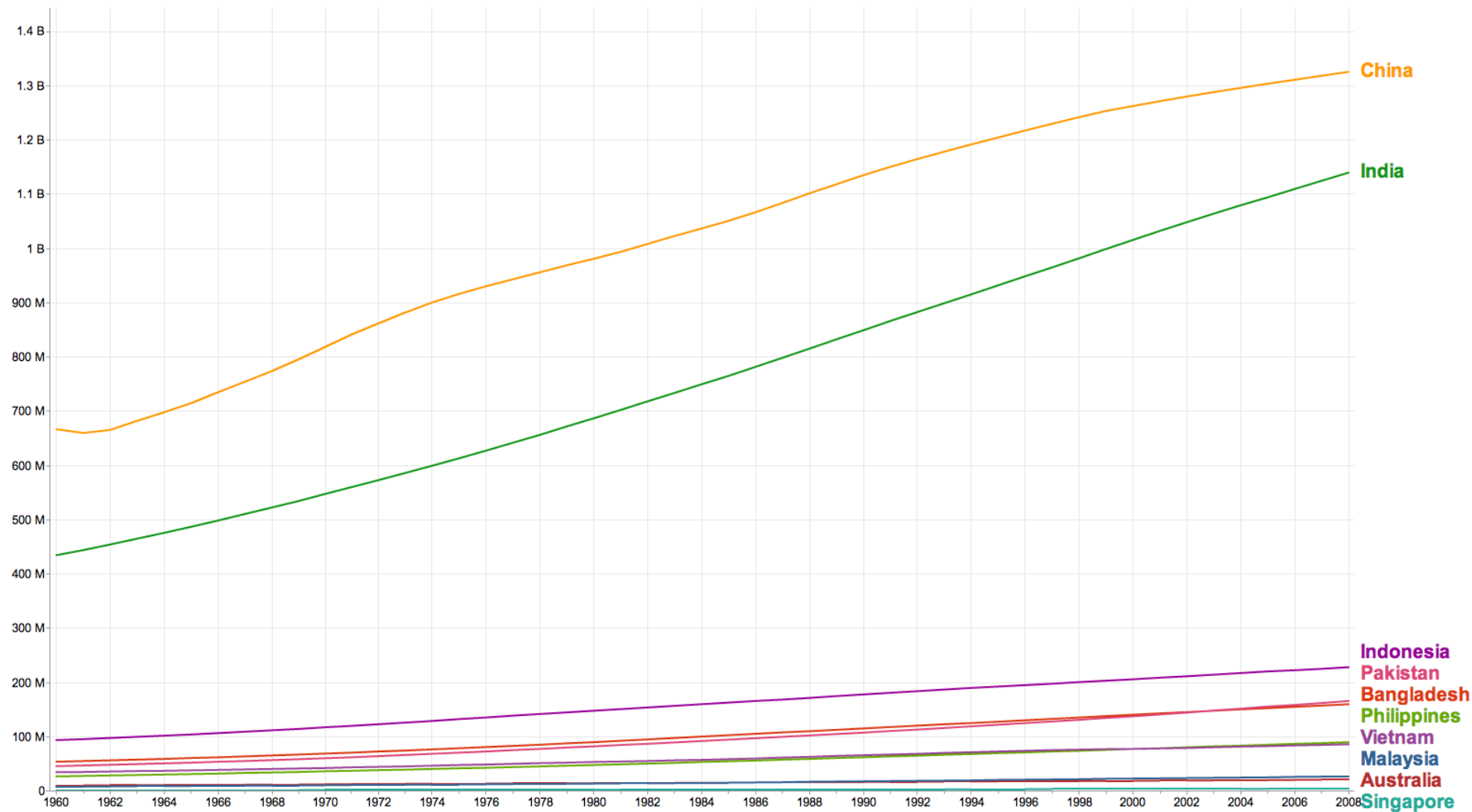


Knowledge related Work can be done by  
skilled, connected people  
anywhere!

# Population of some Asia Pacific countries

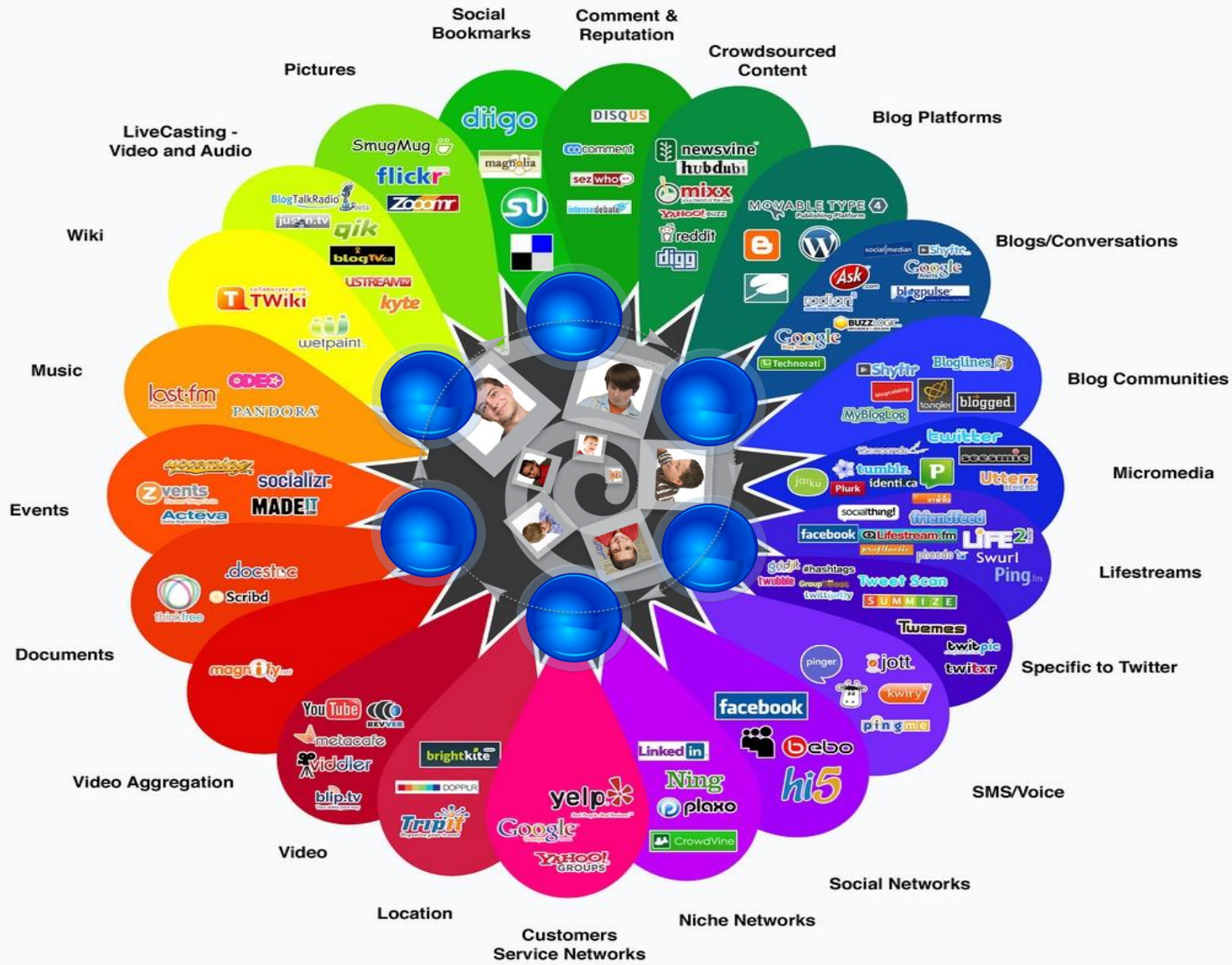
## Population

Midyear estimates of the resident population. [More info »](#)

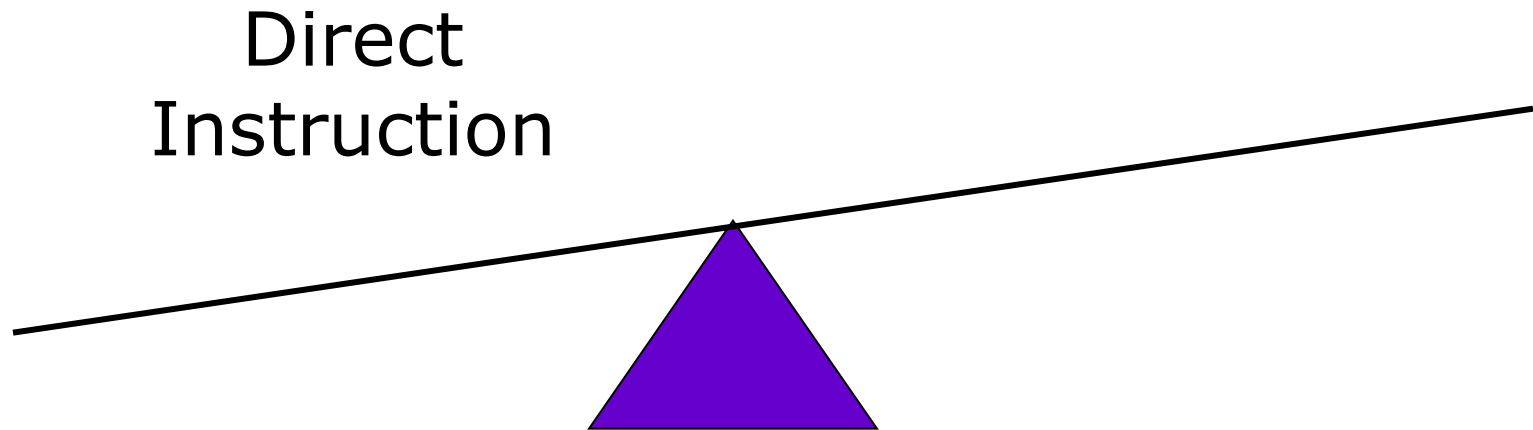


Data source: [World Bank, World Development Indicators](#) - Last updated November 20, 2009

# Augmented Learning in Context



# New 21C Learning Balance





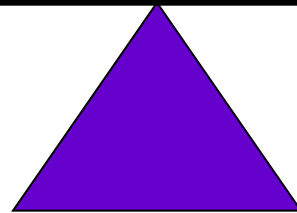
# New 21C Learning Balance

Direct  
Instruction

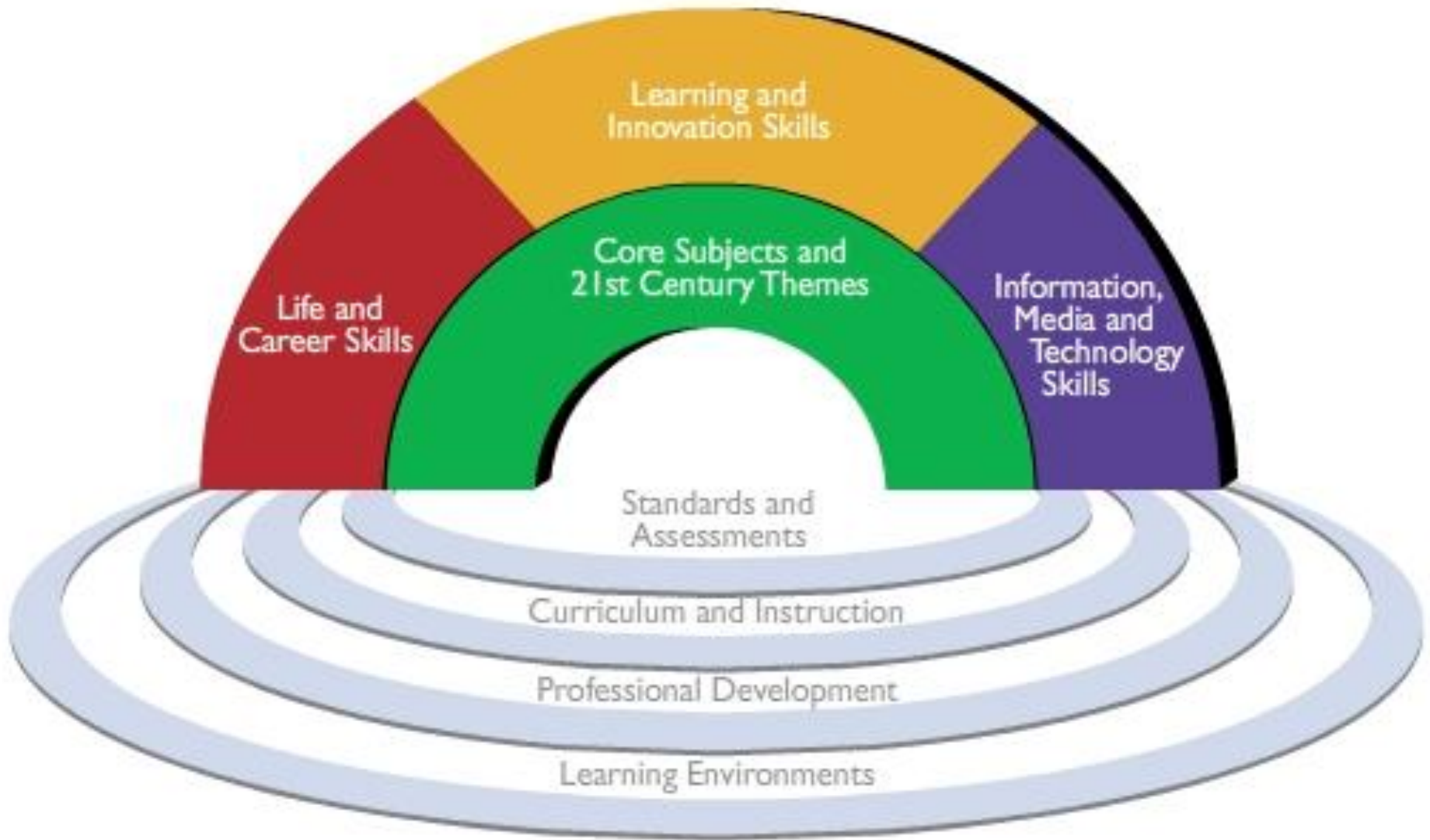
Project  
Learning

A Better

Balance



# 21<sup>st</sup> Century Skills Learning Framework



# New Balance in Education



## From

## To

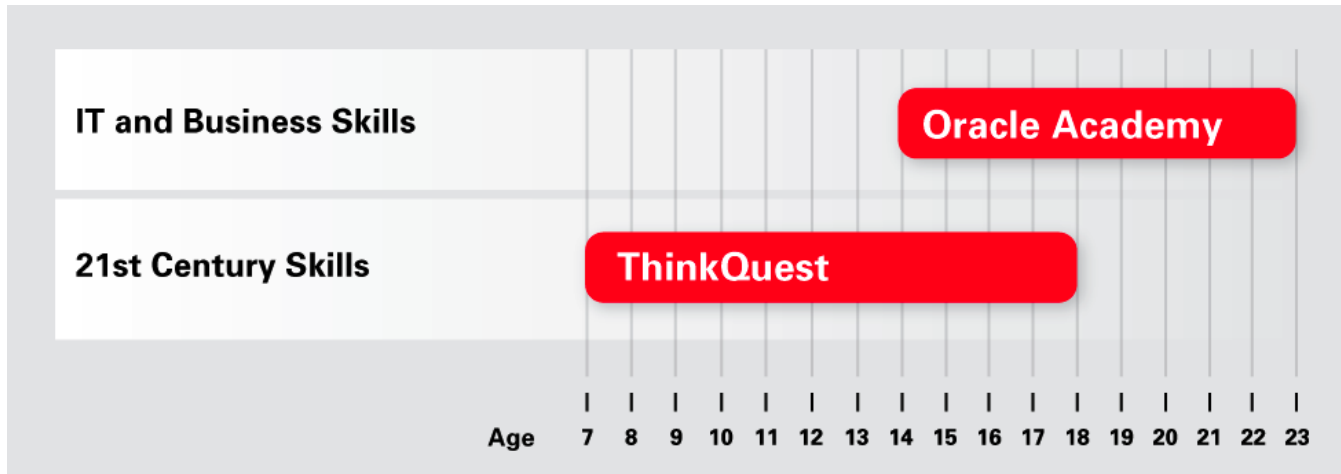
|                      |                        |
|----------------------|------------------------|
| Teacher-directed     | Learner-centered       |
| Direct Instruction   | Interactive exchange   |
| Knowledge            | Skills                 |
| Content              | Applied Skills         |
| Basic skills         | Applied Skills         |
| Facts and principles | Questions and Problems |
| Theory               | Practice               |
| Curriculum           | Projects               |
| Time-slotted         | On-demand              |
| One-size-fits-all    | Personalized           |
| Competitive          | Collaborative          |
| Classroom            | Global community       |
| Text-based           | Web-based              |
| Summative tests      | Formative evaluation   |
| Learning for school  | Learning for life      |

# Oracle's Commitment

- Our commitment at Oracle is to be a vital, contributing partner to the world community.
- We seek out genuine intersections between the needs of society and the goals of our company, and make investments that benefit both.
- We use our technology and resources to:
  - Protect the environment
  - Enrich communities
  - **Advance education**



# Oracle in Education



Oracle  
Academy

Oracle  
Education  
Foundation

Reaching 1.5 million students in 95 countries

# Few steps towards transforming formal education through 21<sup>st</sup> century learning.

- Avoid duplication of efforts and provide a powerful united force for change that Ministries of Education can use to ensure consistent implementation.
- Introduce Project Learning skills regularly in formal teacher training programs.
- 21<sup>st</sup> century skills should be evaluated through ongoing, formative evaluations that are part of the learning process.
- If schools don't have quality access to the Internet, efforts should be made to provide access through community centers or public libraries with local government support.
- Academic institutions with good IT infrastructure should be linked with primary and secondary schools.
- To collaborate with international students, twin English language teachers with subject teachers if the formal curriculum is taught in native language.
- Students who weren't able to develop these critical skills in their early education should be provided with technology based 21<sup>st</sup> century skills curriculum.

# Conclusion

Internet technology is eliminating the boundaries in education and creating a flat learning world in the 21<sup>st</sup> century.

Skills like communication, critical thinking, collaboration and use of technology are becoming necessities for students from all walks of life to step into this new world and thrive.

21<sup>st</sup> century skills development should to be introduced into formal curriculum at early levels of education using technology to succeed in the connected world.



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