



Maharashtra Knowledge Corporation Ltd
Creating a Knowledge Lit World

eEmpowering Educators

digital LEARNING
INDIA 2008

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Agenda

- Challenges before the Educators
- Transformative Role of IT in Empowering Educators
- Roles of Educators
- Empowering Technologies
- Opportunities
- Challenges



Challenges before the Educators

- How to provide education
 - to a very large and diverse population
 - at affordable cost
 - with high quality
 - at fast pace
 - with widest accessibility and
 - with mass personalization

as it is critical for survival, development and empowerment of individuals, communities and nations



Transformative Role of IT in Empowering Educators

- Mass-scale Enabler
- Economizer, Efficiency Booster
- Quality Enhancer
- Accelerator
- Equalizer
- Mass-Personalizer



Roles of the Educator

- Life Long Learner
- Scholar
- Researcher
- Domain Expert
- Resource Person



Roles of the Educator

- Teacher
- Trainer, Tutor, Instructor
- Coach, Skill Builder
- Presenter, Communicator, Demonstrator



Roles of the Educator

- Pedagogue
- Curriculum Designer
- Instructional Designer
- Courseware Author
- Content Developer



Roles of the Educator

- Evaluator, Assessor, Reviewer
- Quality Assessor
- Learning Facilitator
- Co-Explorer,
- Collaborator



Roles of the Educator

- Planner and Manager
- Academician, Academic Leader
- Apex Thinker, Policy Advisor
- Counselor, Guide, Mentor



Empowering Technologies

- Internet
- Google
 - Book Search, Scholar, Blogger, Calendar, Groups, Translate, YouTube, Talk, Picasa, Mobile, SMS, ...



eContent Development

- eContent Design and Integration Tools
- eContent Development and Workflow Automation Tools
- eContent Authoring Tools (WYSIWYG)



Learning Management

- Learning Management Systems
- Learning and Content Management Systems
- Portfolio Management
- Classroom Management Solutions



eContent

- eContent / Learning Object Repositories
- Open Education Resources



Knowledge Management

- Document Management Tools
- Knowledge Management Tools
- Portal Management Tools
- Library Management Systems
- Digital Libraries



Presentation and Collaboration

- Presentation Graphics
- Smart Boards
- Interactive White Boards
- Application Sharing Tools
- 3D / 4D Animation
- Educational Interactive Videos
- Video on Demand



Simulation and Remote Experimentation

- Interactive Simulations
- Multi-player Educational Gaming
- 3D Labs
- iLabs



Virtual Classrooms

- VoIP
- Webcasts
- Voice, Video and Data Integration
- Distributed / Virtual Classrooms
- Video Conferencing
- IPTV



Evaluation and Assessment

- RFID
- Online Performance Tracking and Monitoring Systems
- Online Evaluation/Assessment Systems
- Adaptive Testing Systems
- Instant eCertification Systems



eGovernance

- Campus Management Solutions
- Direct Student Facilitation Frameworks
- Student Life-cycle Management Frameworks
- School / Higher Education Enterprise Frameworks
- Educational eGovernance Frameworks
- Meeting Management Solutions



mLearning

- Personal Digital Assistant
- Pocket PC, Tablet PC, UMPC
- Mobile phone, Camera phone, SmartPhone
- Mobile Author for authoring and publishing WAP, J2ME and Smart Phone
- Personal audio player for listening to audio recordings of lectures



mLearning

- Handheld audio and multimedia guides, in museums and galleries
- Handheld game console
- Modern gaming consoles such as Sony PSP or Nintendo DS/Wii



mLearning

- Technical and delivery support for mobile learning:
 - 3GP For compression and delivery method of audiovisual content associated with Mobile Learning
 - Hot Lava Software mobile delivery and tracking system
 - Wi-Fi gives access to instructors and resources via Internet
 - GPRS mobile data service provides high speed connection and data transfer rate



eLearning 2.0

- Web 2.0
- Social Software
- blogs, wikis, podcasts and virtual worlds-
Second Life
- Long Tail Learning
- Web 3.0 ...



Opportunities for eEmpowerment of Educators

- Large population of learners in wide spread communities have realized the critical role of education leading to employability
- Life-long learning is becoming critical for survival, development and empowerment of individuals and communities



Opportunities for eEmpowerment of Educators

- Agrarian communities are aspiring to leapfrog into knowledge society
- Vocational and professional education is becoming viable in distributed and blended learning mode
- Frequent up-skilling and re-skilling of workforce is feasible only under distributed and blended mode



Opportunities for eEmpowerment of Educators

- Emergence of a world-wide movement of development of open education resources (OERs)
- ICT enabled educational tools and content are becoming available, affordable, accessible and acceptable
- ICT tools are facilitating borderless collaborative learning through seamless networking of resources
- Expertise in private and social sector is becoming available to offer help in eEmpowerment



Challenges in eEmpowerment of Educators

- Lack of leadership
- Lack of coherent policy framework at the national level
- Lack of governmental backing and credibility
- Decision makers not fully aware of the transformative potential of Digital Technology in education
- Mainstream is still under brick and mortar mindset
- Dominance of teacher centrism or content centrism over learner centrism
- Dominance of Inform Content over Perform Content



Challenges in eEmpowerment of Educators

- Focus of instructional design-delivery systems on information and not on participative exploration and innovation
- Open education resources yet to attain a critical mass
- Quality Assurance Frameworks yet to evolve
- Weak Ecosystem for private-public-community partnerships
- Sound business models for eEmpowerment are yet to evolve
- Lack of social sensitivity in IT 'Haves' for bridging the Digital Divide



Thank you!

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