

National Policy for ICT in School Education

*Building a roadmap:
Policy Consultation for E Content
Development*

December 19, 2007

10:00 am - 3:30 pm

Venue: NUEPA, Lecture Hall I

New Delhi



Agenda

10:00 - 10:20 am

Welcome Address and Introductions - QUEST

10:20 - 11:00 am

Current status of National Policy for ICT in School Education - GESCI

11:00 - 11:30 am

Current status of Policy draft for E Content Development - QUEST

Inputs from invitees

11:30 am - 1:00 pm

Small Group Discussion

1:00 - 2:00 pm - Lunch

2:00 - 3:30 pm

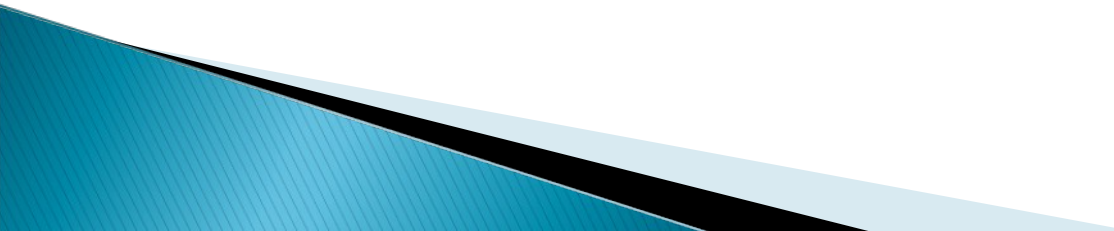
Large group debrief; Completion of questionnaire

Planning for a way forward

QUEST Alliance

GESCI

Purpose

- **Larger Context**
 - Providing recommendation for drafting the e-Content section of the National Policy on ICT in school education
 - Standards for developing quality e Content
 - Standards for deployment of e Content
 - **Organization**
 - Introduction
 - Goals and objectives, focus activities
 - Prior experience/expertise in policy advocacy
 - Prospective contribution area in drafting National Policy
 - Effort consolidation
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Components of Draft National Policy



8. THEMATIC/STRATEGIC OBJECTIVES

8.2: ICT Content Development And Delivery

8.2.1 Quality digital content for students and teachers

8.2.2 Digital content standards

8.2.3 Content in medium of instruction

8.2.4 Promote local content

8.2. 5 Digital content for self-learning

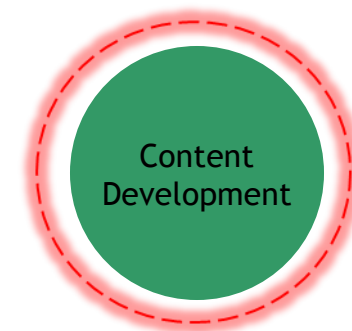
8.2.6 Digital content for blended learning

8.2.7 Digital content for teacher training

8.2.8 Digital Repositories

8.2.9 Digital content for Project-based Learning

Towards a Draft Policy for e-Content Development:

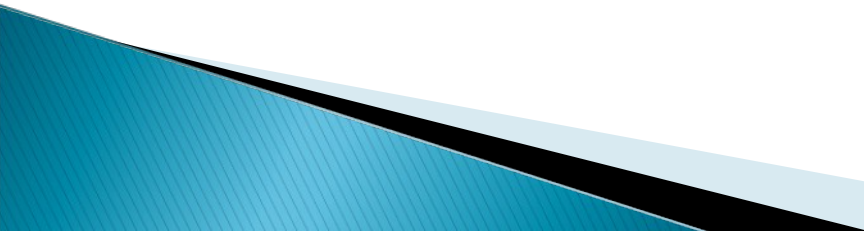


- **Defining 'e-Content'**
- **Completed activities**
 - Organized and participated in panel sessions
 - Developed a concept note (unpublished)
- **Ongoing & upcoming activities**
 - Set-up a discussion forum on Solution Exchange
 - Set-up a sub-committee on e-Content
 - Government representatives
 - Researchers
 - ID/Content developers
 - Participating entities and other stakeholders
 - Conduct research
 - Facilitate workshops

QUEST Alliance: Completed Activities

- **National Instructional Design (NID) workshop (November 2006)**
 - 3-day workshop on instructional and learning design processes;
 - Approximately 120 people representing various sectors

 - **Panel Sessions**
 - E-India 2007, UQSE
 - One-hour session with panelists representing the NGO sector
 - Approximately 20 - 75 people representing the various sectors

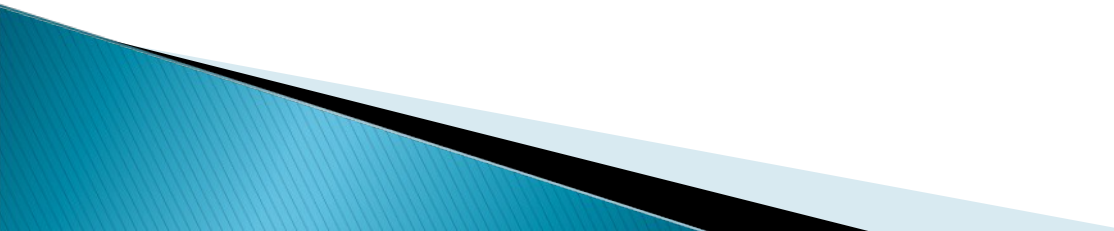
 - **Concept note (unpublished)**
 - Collection of tangible suggestions and recommendations
 - Highlights importance of systematic Learning Design Process
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Defining 'e-Content'

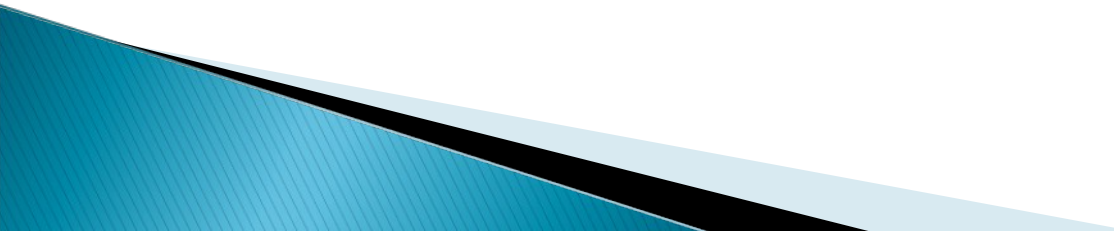
- Instructional/Learning Design Principles and Processes
 - Inputs from prior policy panel sessions
 - Finalized focus area: e-Content
- Towards a broader definition

“the *design* (pedagogical and learning principles used to create the digital intervention) of the *subject matter* (E.g. Math, Science etc.) in question and the *digital delivery* mode (Computer, Video etc.) used.”

QUEST Alliance: Proposed Activities

- **Set-up a discussion forum on Solution Exchange**
 - **Conduct relevant research**
 - **Set-up a committee on e-Content comprising,**
 - Government representatives; Academic researchers and specialists; ID/Content developers and other stakeholders
 - **Facilitate a series of Consultative Workshops to**
 - enable stakeholders to reflect, discuss, and identify the various components in policy formulation for e-content development and positioning it in the larger ICT for Education policy
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Proposed Consultative Workshops:

- Roundtable discussions with a facilitator steering the discussion
 - Objectives
 - To develop a common understanding of the importance of policy for e-content development and its role and placement in the overall policy
 - To develop a set of core indicators/components which will be included in the overall policy
 - To develop a framework for assisting the Government and other stakeholders including civil society, the private sector, and others to design appropriate process and delivery mechanisms for effective e-content development
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Proposed Workshop: Discussion Topics/Themes

I. Setting the stage for discussions on Policy for E-Content Development

This consultative meeting would kick start the discussion on e-content development. Firstly, a commonly agreed upon definition of the term e-content development will be established. Among others, the session would deliberate on the present scenario of ICT-enabled education in , content development and the importance of policy for e-content development. What is the purpose of this policy? Who is it for? What will it look like? How might the process be developed? Etc.

II. Identification of the various aspects/dimensions/indicators within E-Content Development

This session shall delve on the various aspects and dimensions within the E-content development. What constitutes e-content? What are the current practices in place for developing e-content? Should there be a requirement to have trained Instructional/learning designers? The discussion shall also focus on the type and kinds of contents developed for the school and skills training sectors - domain/ subject wise, and language wise etc. This session shall focus on issues like what kind of approaches is being followed up in content based educational learning in schools/skills training sector. The roles of the various stake holders will be identified.

III. Formulation of policy recommendations based on the identified dimensions

This session will focus on the actual policy formulation process based on the identified dimensions of e-Content Development.

IV. Consultation Deliberation; Outcome & Way ahead

This session will focus on summarizing the consultations held thus far. Discussions around formalizing the policy and making it implementable will be held. Speakers, participants, moderators, chairperson, presenters all shall be actively taking part in this open session and finally come out with an action plan for implementing the policy.

Small Group Discussion

to generate ideas/inputs on the various dimensions of e Content Development based on your own sectoral experiences (i.e. government, NGOs, R&D, and Industry)

- Participate in a small group discussion of 5-6
- Discuss and respond to specific questions on e Content Development

Post-Lunch

- Present the responses generated by their groups
 - Discuss and provide feedback to the presentations
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QUESTION ONE: For all groups

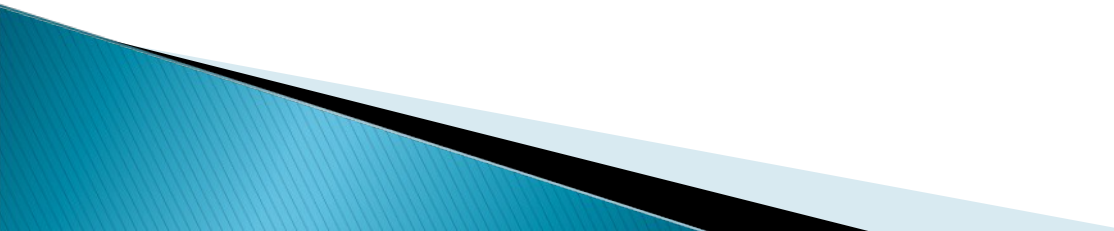
1. Please discuss the following definition of e Content with your group and add/edit as appropriate.

Broad definition of e Content Development

“the design (pedagogical and learning principles used to create the digital intervention) of the subject matter (E.g.. Math, Science etc.) in question and the digital delivery mode (Computer, Video etc.) used.”

2. What constitutes *quality* E Content?



- What assumptions underlie our vision for how technologies can impact teaching and learning, and how have these changed over time?
 - What are some of the key issues to consider when defining the nature, scope and content of the policy guidelines to be drawn up for e Content development?
 - What are the factors that influence the implementation of e Content to enhance its *quality*?
 - What are the processes between the various sectors (e.g. government and that will enable greater collaborations to develop quality e Content?
 - What are the requisite steps to take (i.e., a process flow) in order to ensure that E content is effectively implemented? What specific recommendations would you make?
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| | Possible grouping by sector: | | |
|-----|-------------------------------------|--------------|---------------------|
| 1. | Utpal Mallik | NCERT | Government |
| 2. | Dr. R. Sreedhar | COL | Inter-government |
| 3. | Dr. Rajaram Sharma | CIET | Government |
| 4. | Dr. Madhu | CEC | Government |
| 5. | Dr. S.K.Thakur | NCTE | Government |
| 6. | R. Govinda to send someone (Nalini | NUEPA | Government |
| 7 | Dumfries Jay Kant Prasad | DEP-SSA | Government |
| | Mr. Amitav Nath | QUEST | |
| | | | |
| 8. | Mr. Rishikesh Patankar | Media Lab | R&D |
| 9. | Mr. Sandeep Kumar Bansal | Media Lab | R&D |
| 10. | Mr. V. K. Bhatia | Media Lab | R&D |
| 11. | Prof. Marmar Mukhopadhyay | ETMA | Education Institute |
| 12. | Dr. Santosh Panda | IGNOU | Education Institute |
| 13. | Mathew Kam | Berkeley | |
| | Dr. Radha Ganesan | QUEST | |
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|---------------------------|-------------------------------------|----------------|
| Mr. Osama Manzar | DEF | NGO |
| Mr. Rajan Varada | TFTP | NGO |
| Mr. M. K. Senthil Kumar | APF | NGO |
| Mr. Sajan Venniyoor | Community Radio Forum/Prasar Bharti | NGO |
| Mr. Manas Chakraborty | AIF | NGO |
| Mr. Ravi Gupta | CSDMS | R&D |
| | | |
| Mr. Sukumar Anikar | APF | NGO |
| Dr. Victor Paul | EDC | NGO |
| Ms. Shashwati Banerjee | Sesame Workshop | Intl NGO |
| Dr. Jocelyn Josiah | UNESCO | Intl NGO |
| Mr. Naimur Rahman | OWSA | NGO |
| Ms. Ashish Garg | GESCI | |
| | | |
| Dr. Shabnam Sinha | IL&FS | Industry |
| Ms. Ambika Khurana | Intel | Industry |
| Dr. Subhi Quraishi | ZMQ | Industry |
| Dr. Soumya Kanti | Educomp | Industry |
| Dr. Gaurav Bhatnagar | Educomp | Industry |
| Dr. Sonia Handa | Educomp | Industry |
| | Microsoft | Industry |
| Mr. Aakash Sethi | QUEST | |
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Planning for a way forward....