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North Carolina School  
Connectivity Program

# K20 Connectivity Initiative

House Select Committee  
High Speed Access in Rural Areas  
October 22, 2008

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# North Carolina School Connectivity Program

## Implementation Roadmap

Connectivity

Services

Collaboration

Organization

Funding

**Communities and  
Backbone**

**Services**

**A Platform**

FY08

FY09

FY10



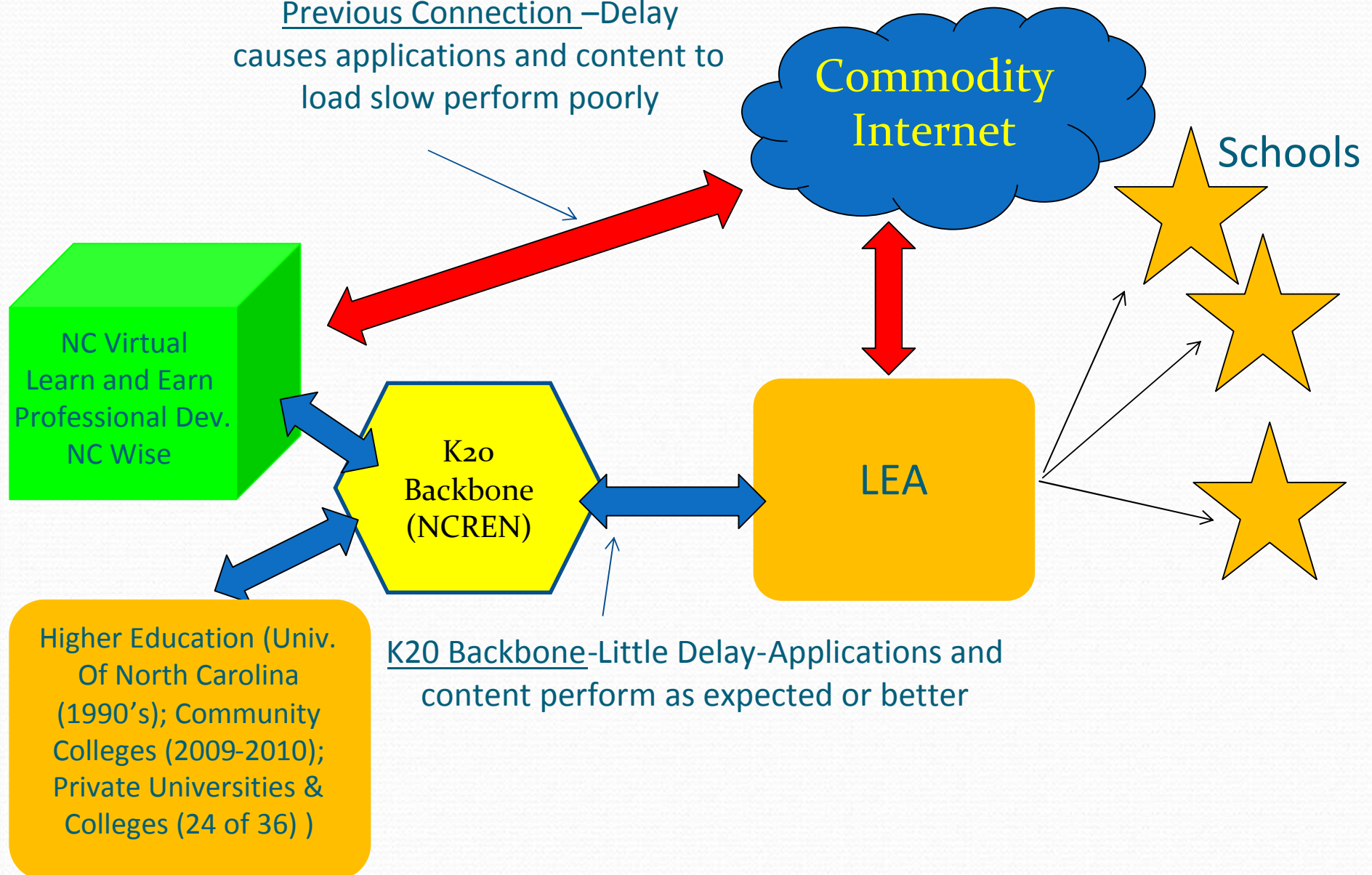


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# North Carolina School Connectivity Program

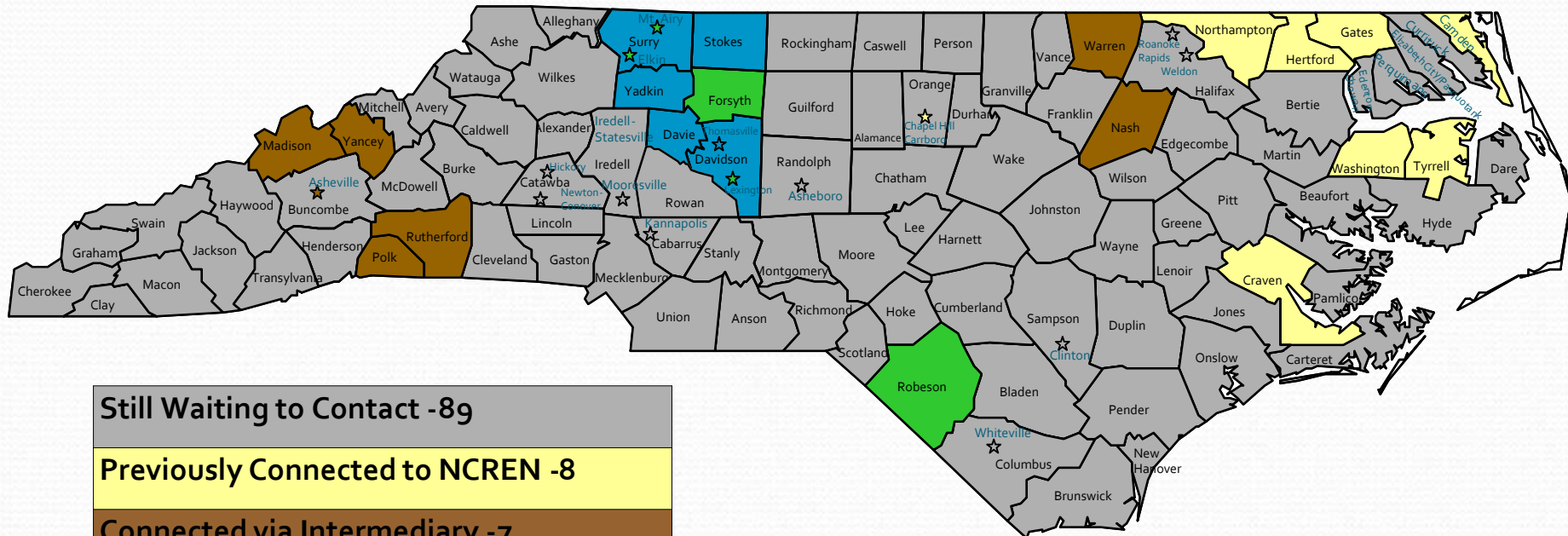
Previous Connection – Delay  
causes applications and content to  
load slow perform poorly



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# North Carolina School Connectivity Program



Still Waiting to Contact -89

Previously Connected to NCREN -8

Connected via Intermediary -7

Fully Integrated per terms of SOW -5

Backbone Connections Completed, LAN integration required -6

Circuits Ordered, confirmed due dates -0

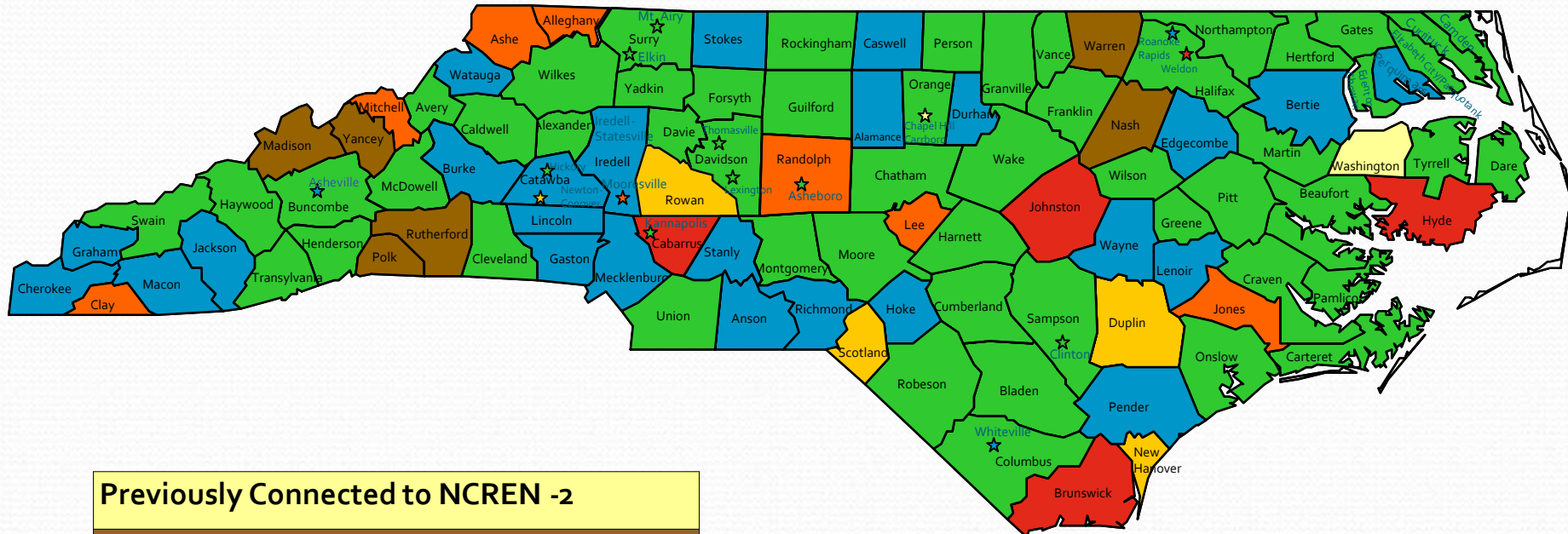


City or Combined City/County LEAs

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# North Carolina School Connectivity Program



**Previously Connected to NCREN -2**

**Connected via Intermediary -6**

**Fully Integrated per terms of SOW -61**

**Backbone Connections Completed, LAN integration required -28**

**Circuits Ordered, confirmed due dates -5**

**Circuits Ordered, awaiting due dates -8**

**Project Dialogue Occurring -5**

**City or Combined City/County LEAs**



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# North Carolina School Connectivity Program

## Value

- Reliable and Efficient
- Equity
- Collaborate/Community
- Customer Network Engineering (CNE) Services
- Investment: MCNC Endowment-Now and forever



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# North Carolina School Connectivity Program

## ValueRealized

- Reliable and efficient
  - **Guilford County**
- Equity
  - **Science and Math School Expands Offerings**
- Community collaboration
  - **Mebane Masters Plan**



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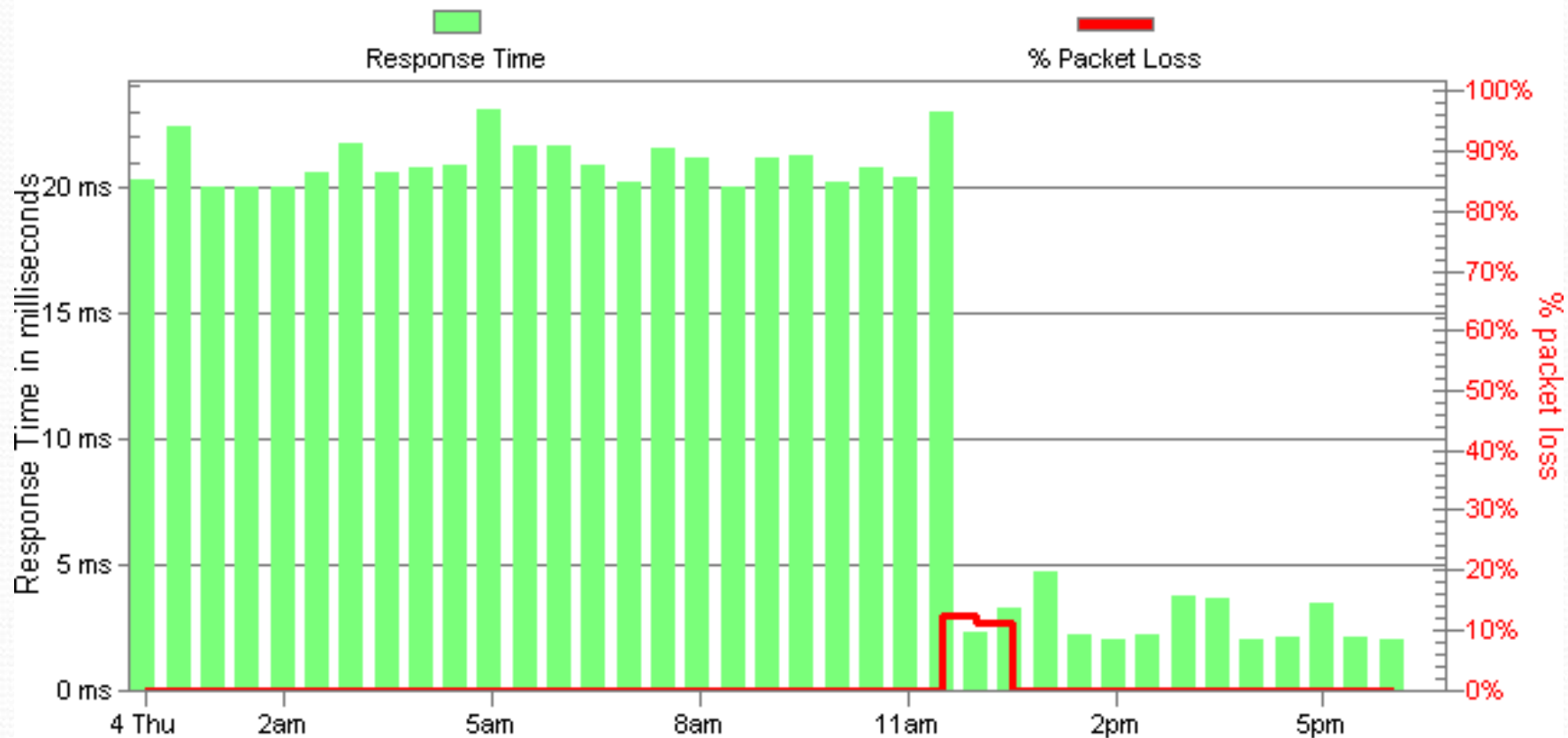


# North Carolina School Connectivity Program

## GuilfordCounty

### ATM-VPN-1811

Average Response Time & Packet Loss  
Delay reduction due to NCREN Connection at noon



Sep 2008

95th Percentile : Response Time is 26.00 ms

SolarWinds.Net Orion NPM Web Engine Version 8.5.1



# North Carolina School Connectivity Program

## CNEEngagements

- What we do.....
  - Subject Matter Expertise
  - Advice to Self Sufficiency
  - Information Sharing/Efficient Practice
  - Reduce LEA consulting expenses
- Example engagements
  - Montgomery County Schools – Firewall configuration
  - Mitchell County Schools – WAN migration to fiber
  - Pamlico County Schools – District wide network assessment
  - Person County Schools – Fiber WAN and assessment
  - Dare County – Accelerated Connectivity



## Endowment

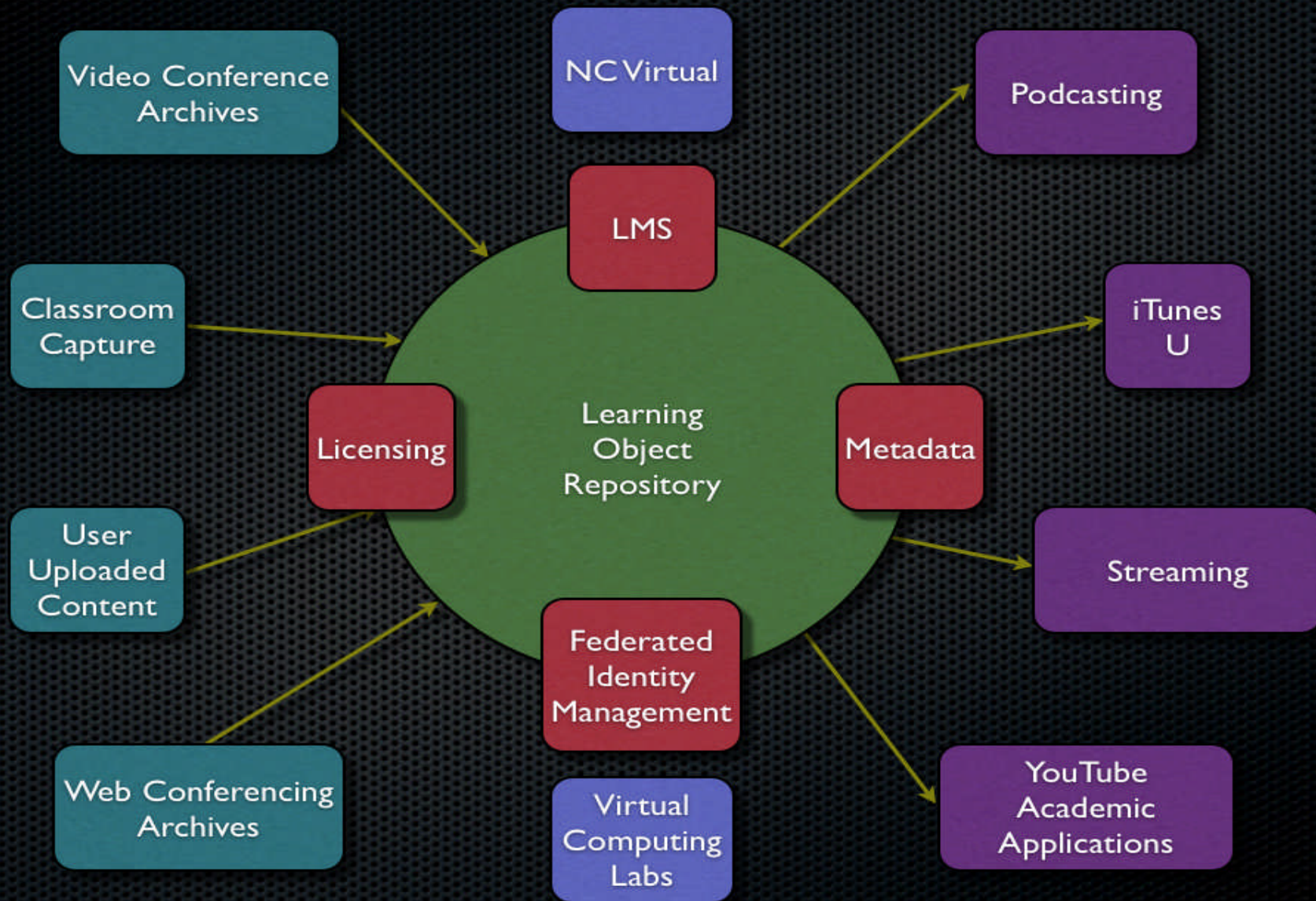
- Endowment – one of 38
  - \$8M + This year alone invested
- Management of Endowment
- Capital and Innovation



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# North Carolina School Connectivity Program







# North Carolina School Connectivity Program

- What School Connectivity Initiative could mean?
  - Build on eNC great efforts
    - Education
    - Demand creation
    - Public/Private Partnership
  - Want the best for your children?
  - Community center
  - State and MCNC-seed private investment
- Concerns
  - Research Demands on NCREN
  - State and MCNC work
  - Regulatory environment



## SchoolConnectivity Initiative

Questions and Comments