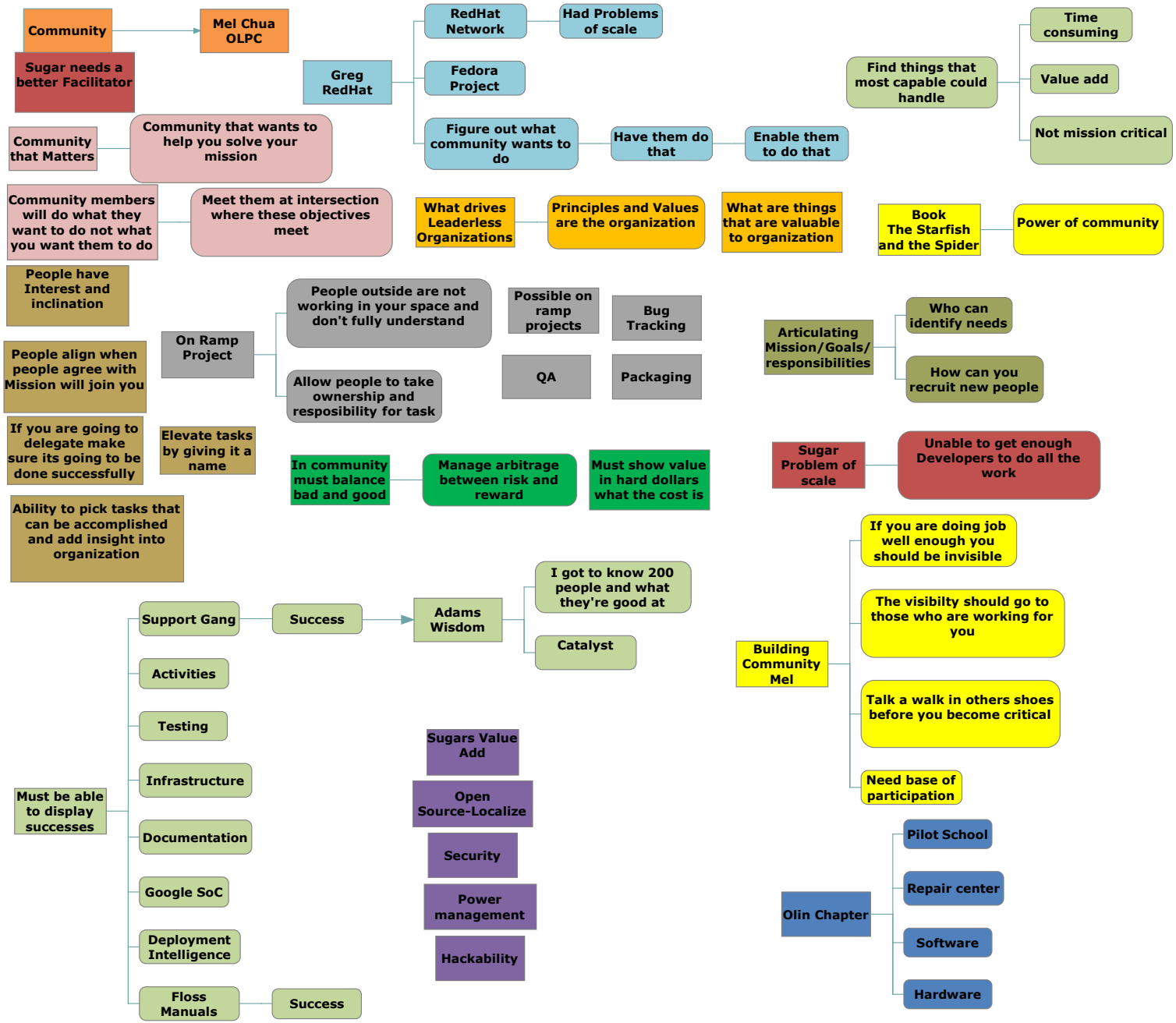
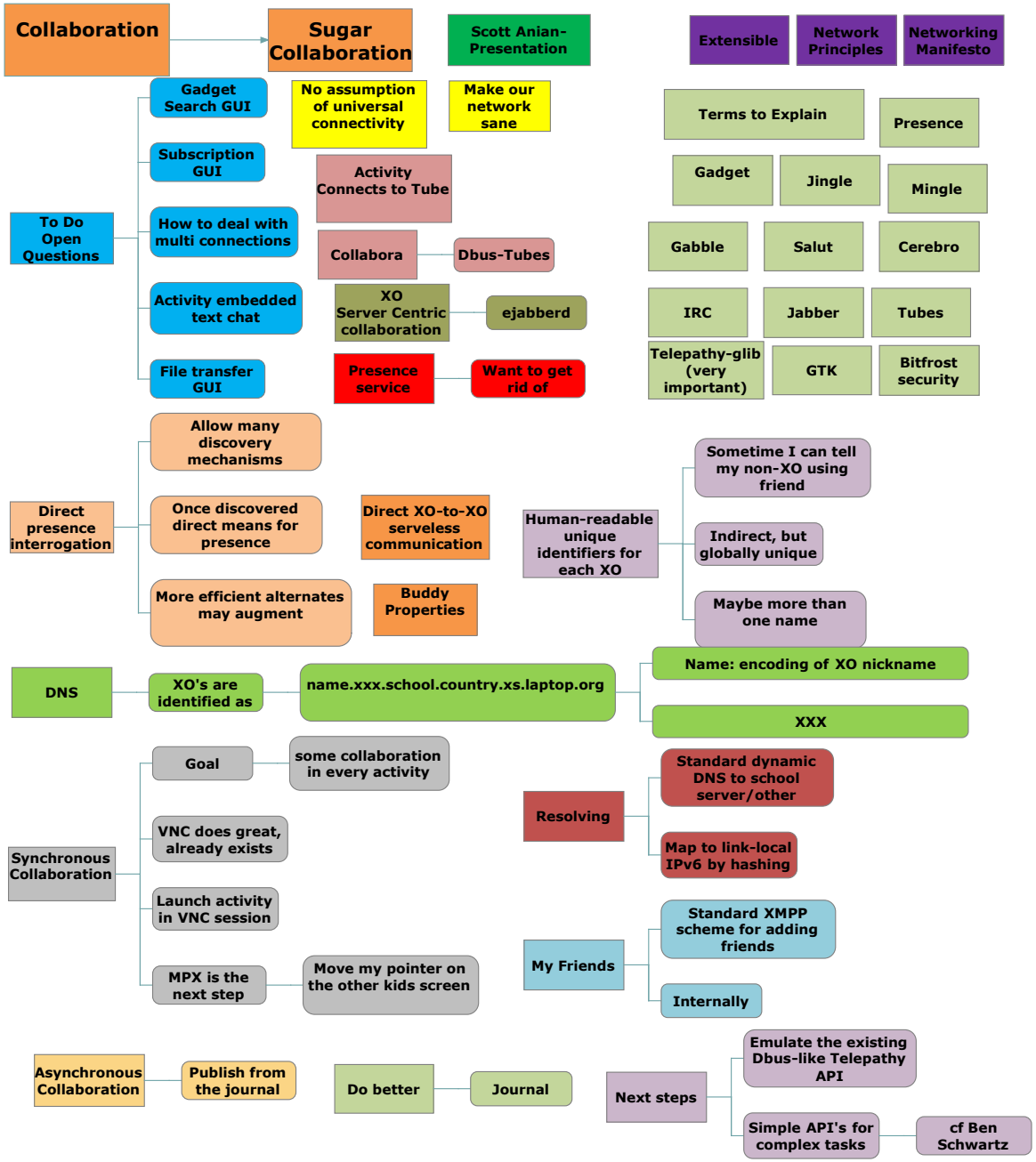
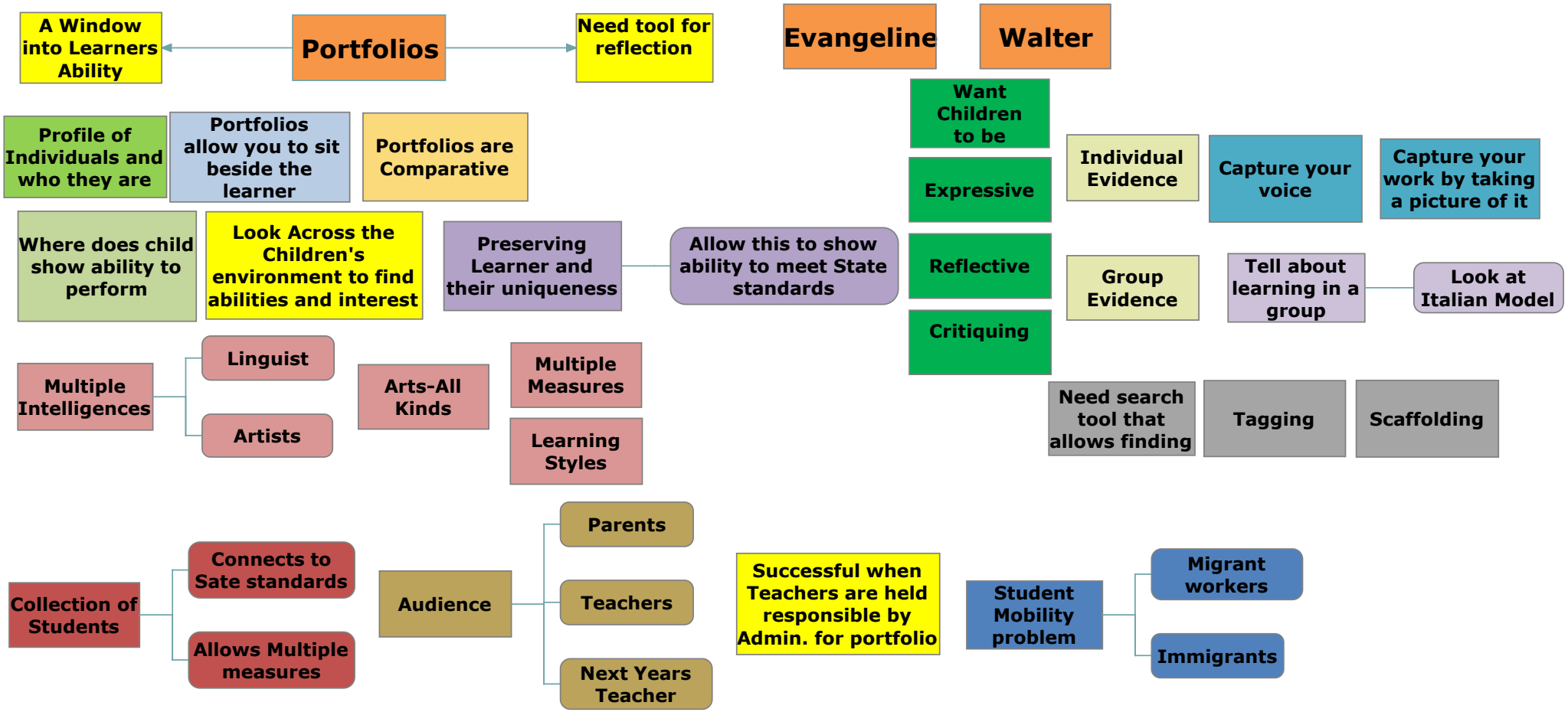
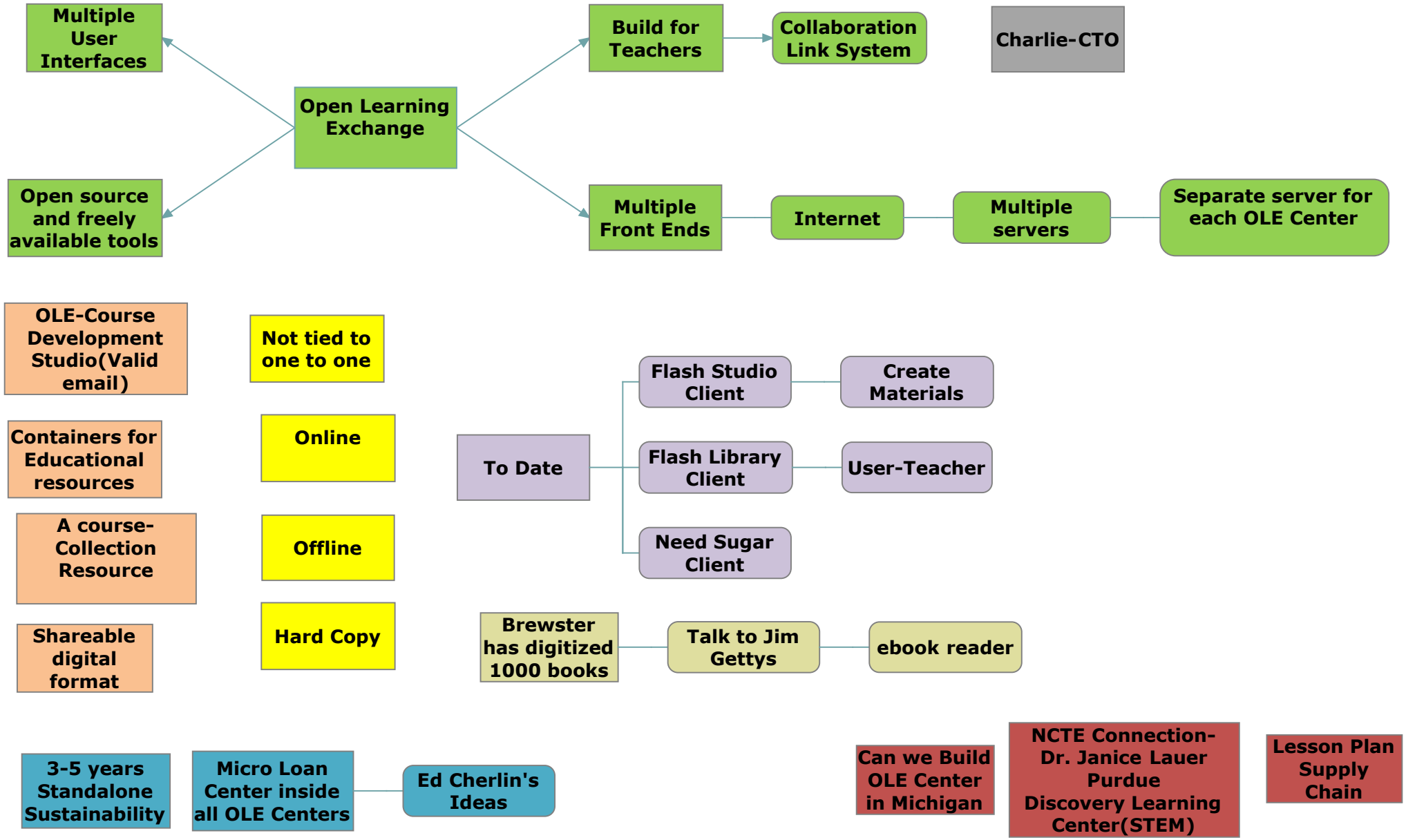
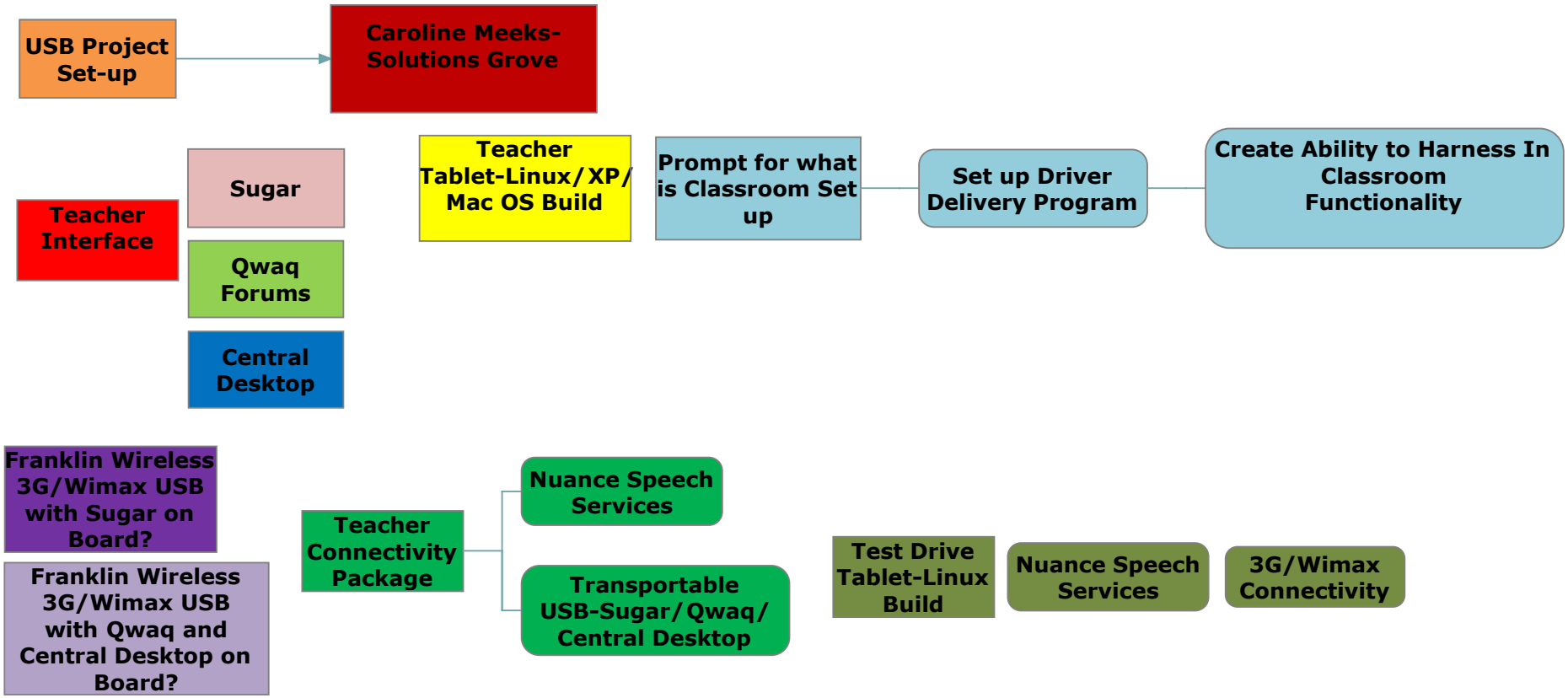

Community
Mel Chua OLPC
Sugar needs a better Facilitator
Greg RedHat
RedHat Network
Had Problems of scale
Fedora Project
Figure out what community wants to do
Have them do that
Enable them to do that
Find things that most capable could handle
Time consuming
Value add
Not mission critical
Community that Matters
Community that wants to help you solve your mission
Community members will do what they want to do not what you want them to do
Meet them at intersection where these objectives meet
What drives Leaderless Organizations
Principles and Values are the organization
What are things that are valuable to organization
Book The Starfish and the Spider
Power of community
People have Interest and inclination
People align when people agree with Mission will join you
If you are going to delegate make sure its going to be done successfully
Ability to pick tasks that can be accomplished and add insight into organization
On Ramp Project
People outside are not working in your space and don't fully understand
Allow people to take ownership and resposibility for task
Possible on ramp projects
Bug Tracking
QA
Packaging
Articulating Mission/Goals/responsibilities
Who can identify needs
How can you recruit new people
Elevate tasks by giving it a name
In community must balance bad and good
Manage arbitrage between risk and reward
Must show value in hard dollars what the cost is
Sugar Problem of scale
Unable to get enough Developers to do all the work
Must be able to display successes
Support Gang
Success
Activities
Testing
Infrastructure
Documentation
Google SoC
Deployment Intelligence
Floss Manuals
Success
Adams Wisdom
I got to know 200 people and what they're good at
Catalyst
Sugars Value Add
Open Source-Localize
Security
Power management
Hackability
Building Community Mel
If you are doing job well enough you should be invisible
The visibilty should go to those who are working for you
Talk a walk in others shoes before you become critical
Need base of participation
Olin Chapter
Pilot School
Repair center
Software
Hardware

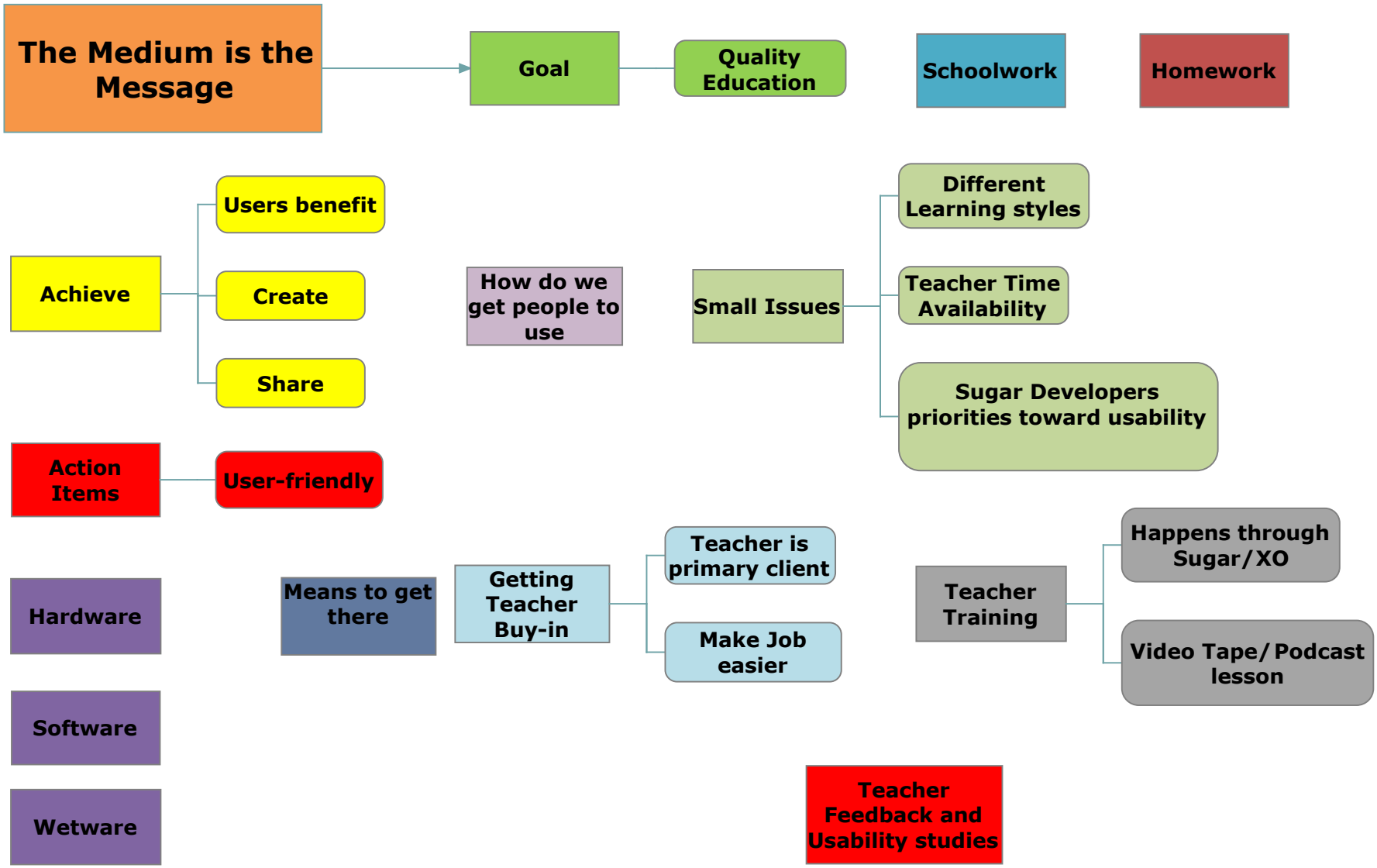

Collaboration
Sugar Collaboration
Scott Anian-Presentation
Extensible
Network Principles
Networking Manifesto
To Do Open Questions
Gadget Search GUI
Subscription GUI
How to deal with multi connections
Activity embedded text chat
File transfer GUI
No assumption of universal connectivity
Make our network sane
Activity Connects to Tube
Collabora
Dbus-Tubes
XO Server Centric collaboration
ejabberd
Presence service
Want to get rid of
Terms to Explain
Presence
Gadget
Jingle
Mingle
Gabble
Salut
Cerebro
IRC
Jabber
Tubes
Telepathy-glib (very important)
GTK
Bitfrost security
Direct presence interrogation
Allow many discovery mechanisms
Once discovered direct means for presence
More efficient alternates may augment
Direct XO-to-XO serveless communication
Buddy Properties
Human-readable unique identifiers for each XO
Sometime I can tell my non-XO using friend
Indirect, but globally unique
Maybe more than one name
DNS
XO's are identified as
name.xxx.school.country.xs.laptop.org
Name: encoding of XO nickname
XXX
Synchronous Collaboration
Goal
some collaboration in every activity
VNC does great, already exists
Launch activity in VNC session
MPX is the next step
Move my pointer on the other kids screen
Resolving
Standard dynamic DNS to school server/other
Map to link-local IPv6 by hashing
My Friends
Standard XMPP scheme for adding friends
Internally
Asynchronous Collaboration
Publish from the journal
Do better
Journal
Next steps
Emulate the existing Dbus-like Telepathy API
Simple API's for complex tasks
cf Ben Schwartz

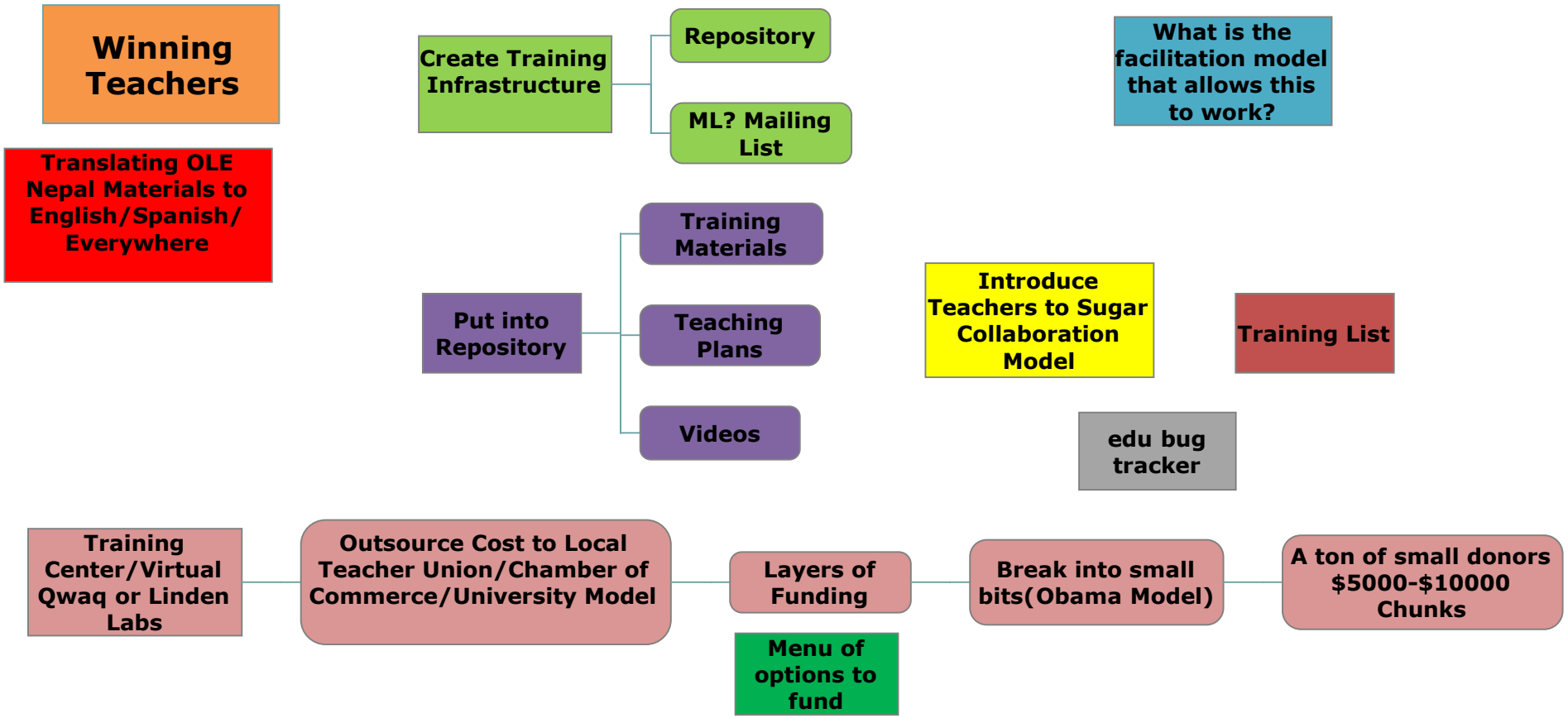
Marketing Talk
Sugar Labs Overview
You go where you look
Free Software is Important
Culture of sharing
Sugar availability
Culture of critique
sostenibilidad
Sustaining the status quo
Does not Equal
English Sustainability
sustentabilidad
Sustainability of a dynamic system
Where we've been
0.82 release
wiki.sugarlabs.org
SFC membership
Sugar upstream
Bundled into Ubuntu/Fedora/
User gets Popular Linux Distro they get Sugar
We can use software model that is widely used
Developers
Sugar Manual
Sugar community(start)
Homework
Starfish and the Spider
Disrupting Class
Evangeline's Book
Help Wanted
Developers
Documentation
Community
Deployment
Infrastructure
Grant Writing
Outreach
Corporate
Where we are going
0.84 release
dev.sugarlabs.org
Sugar in the field(on a stick)
Very important
Unequivocally
Available on any platform
Must help OLPC-Largest Sugar Deployment
We must take Sugar to next level of stability
Not going to get there by throwing money at the problem
Other destinations
Sugar Mobile
Sugar embedded
Sugar health
Sugar OLE
Earth Treasury agenda
Who is our audience
Greg D
Caroline Meeks
Difference between goals and means
We are the change
Marketing
Business
To sell a product
Community
Is building Community
Challenge in one sentence
What are our values
Sugars elevator pitch
Articulating the Elevator
Simplify
make sure everyone
Amplify
Need Elevator Pitch
Audience you don't prepare
Audience you do prepare for
Need Collateral pitch for each audience
Parent
Teacher
Principal
Superintendent
Governor
Congressman
Business Leaders
Business Schools
What are a marketing advantages
Portfolios
Momentum
Community
Learner & Developer
Helping Sugar helps children in Developing Countries
Anyone can jump
Only operating system designed for children
Children are not stupid
Allows Engagement in all learning styles
Sugar: The Brainfood that works
Provides equality/opportunity/elasticity
MIT Media Lab
Seymour Papert
Constructionism
Alan Kay
Dynabooks
Real things and perceptions
Collaboration
XP on XO
Sugar is part of OLPC and is a big well organized thing
Hope
Redemption
Fulfillment of Hope
Difficult to get involved/Inaccessibility
Only for developing world
Clay Christenson-Disrupting Class is book that pretty much describes sugar
Sugar is complete and works
Logo/Scratch/Squeak
Internet access/Digital divide
Ending poverty

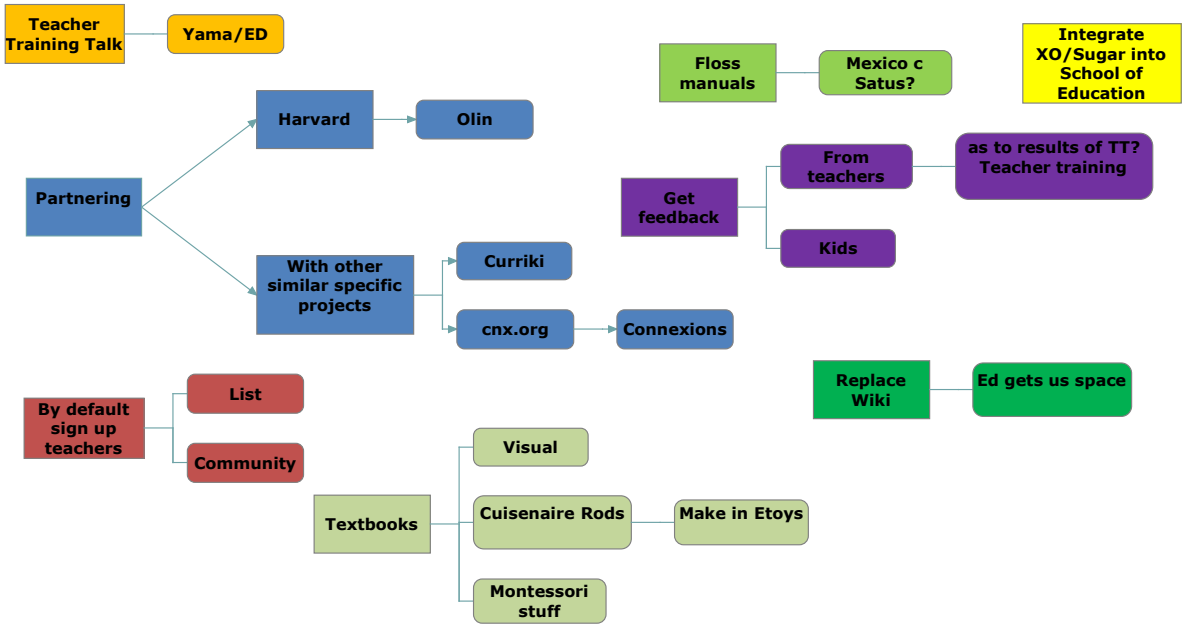

Portfolios
A Window into Learners Ability
Need tool for reflection
Evangeline
Walter
Profile of Individuals and who they are
Portfolios allow you to sit beside the learner
Portfolios are Comparative
Where does child show ability to perform
Look Across the Children's environment to find abilities and interest
Preserving Learner and their uniqueness
Allow this to show ability to meet State standards
Want Children to be
Expressive
Reflective
Critiquing
Individual Evidence
Capture your voice
Capture your work by taking a picture of it
Group Evidence
Tell about learning in a group
Look at Italian Model
Need search tool that allows finding
Tagging
Scaffolding
Multiple Intelligences
Linguist
Artists
Arts-All Kinds
Multiple Measures
Learning Styles
Collection of Students
Connects to Sate standards
Allows Multiple measures
Audience
Parents
Teachers
Next Years Teacher
Successful when Teachers are held responsible by Admin. for portfolio
Student Mobility problem
Migrant workers
Immigrants

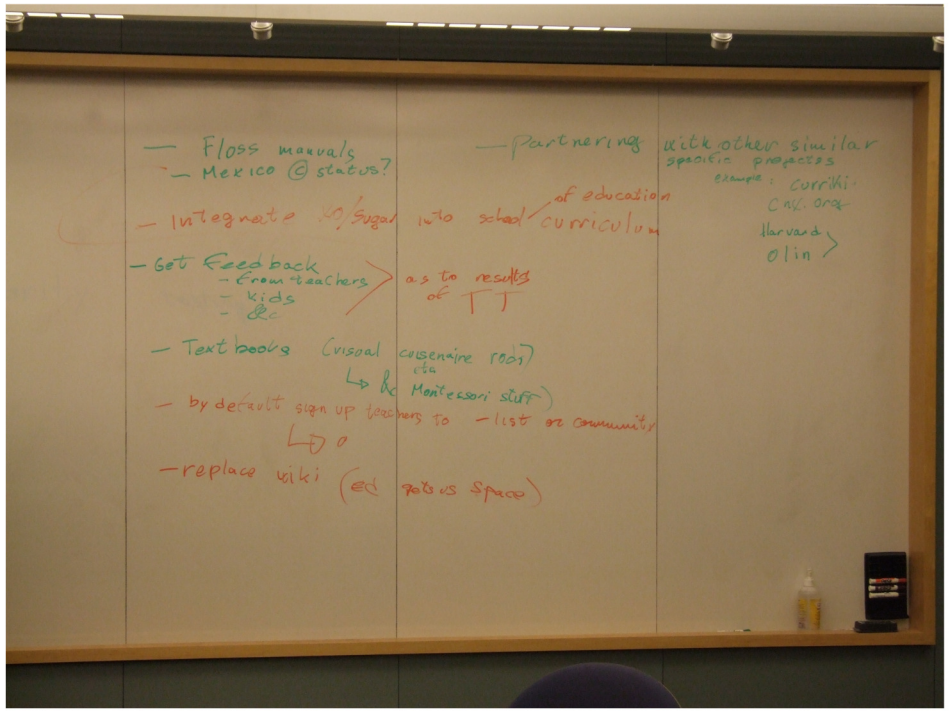

Multiple User Interfaces
Open Learning Exchange
Open source and freely available tools
Build for Teachers
Collaboration Link System
Charlie-CTO
Multiple Front Ends
Internet
Multiple servers
Separate server for each OLE Center
OLE-Course Development Studio(Valid email)
Containers for Educational resources
A course-Collection Resource
Shareable digital format
Not tied to one to one
Online
Offline
Hard Copy
To Date
Flash Studio Client
Create Materials
Flash Library Client
User-Teacher
Need Sugar Client
Brewster has digitized 1000 books
Talk to Jim Gettys
ebook reader
3-5 years Standalone Sustainability
Micro Loan Center inside all OLE Centers
Ed Cherlin's Ideas
Can we Build OLE Center in Michigan
NCTE Connection-Dr. Janice Lauer Purdue Discovery Learning Center(STEM)
Lesson Plan Supply Chain

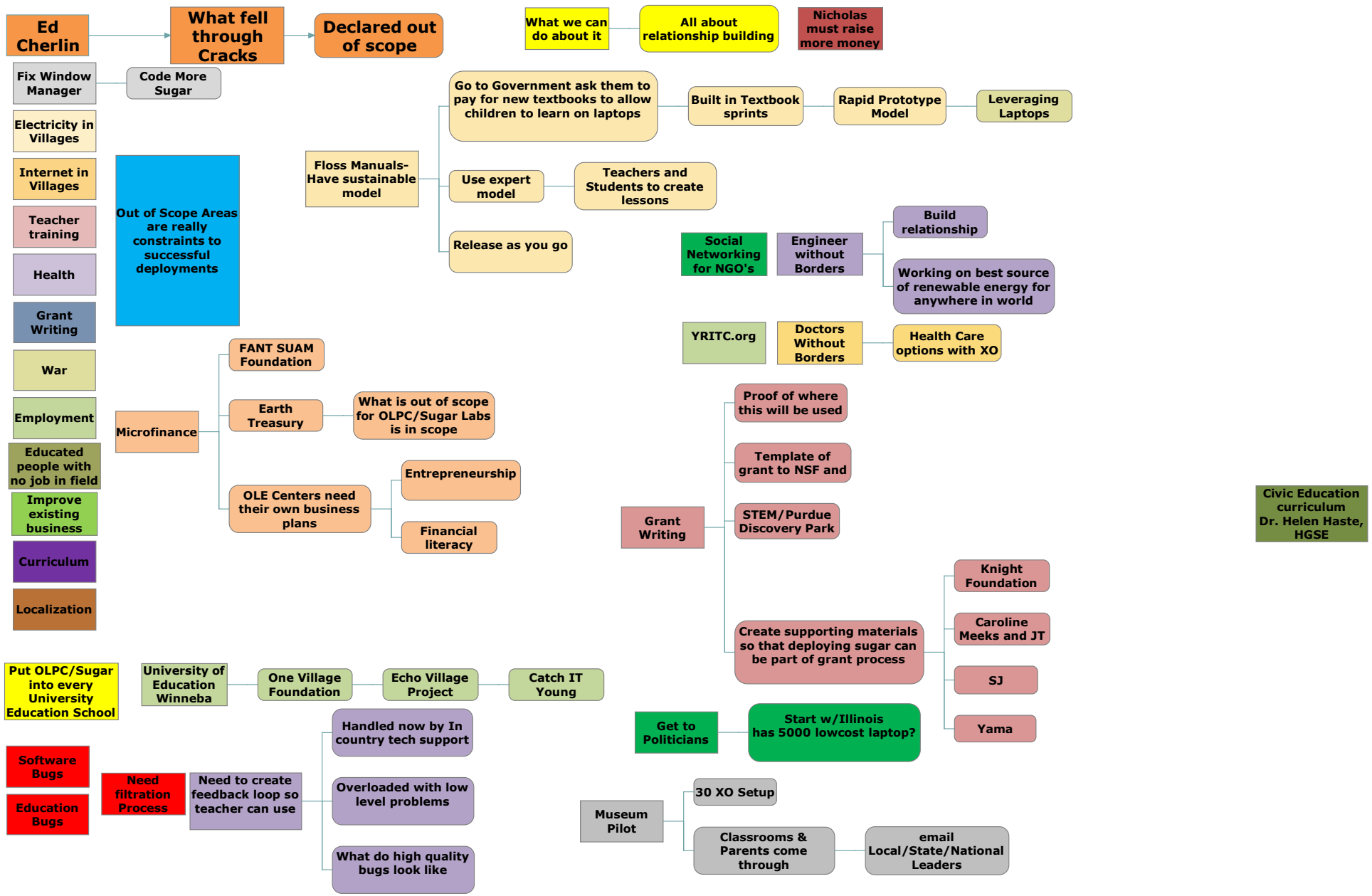

USB Project Set-up
Caroline Meeks-Solutions Grove
Teacher Interface
Sugar
Qwaq Forums
Central Desktop
Teacher Tablet-Linux/XP/Mac OS Build
Prompt for what is Classroom Set up
Set up Driver Delivery Program
Create Ability to Harness In Classroom Functionality
Franklin Wireless 3G/Wimax USB with Sugar on Board?
Franklin Wireless 3G/Wimax USB with Qwaq and Central Desktop on Board?
Teacher Connectivity Package
Nuance Speech Services
Transportable USB-Sugar/Qwaq/Central Desktop
Test Drive Tablet-Linux Build
Nuance Speech Services
3G/Wimax Connectivity

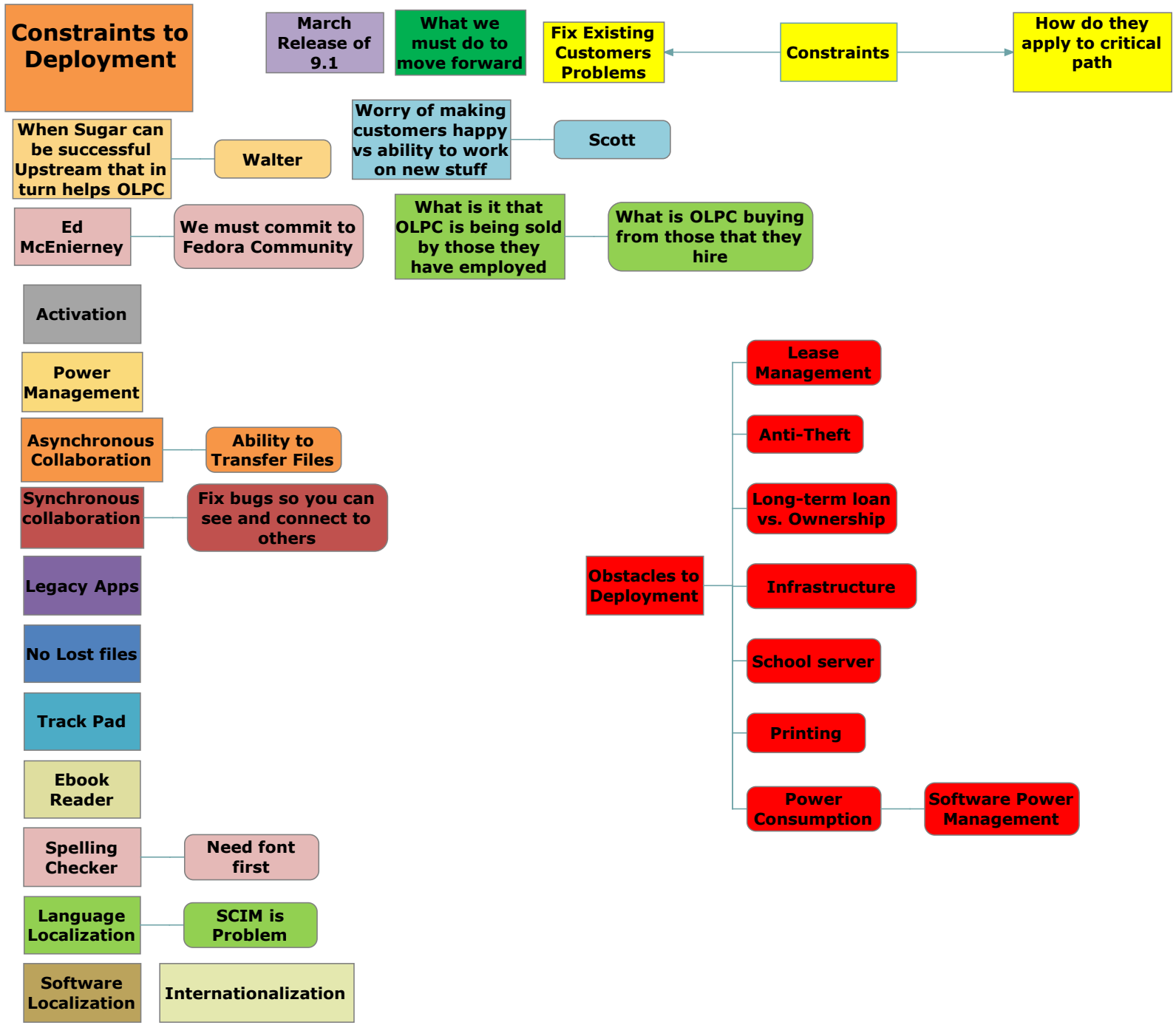

The Medium is the Message
Goal
Quality Education
Schoolwork
Homework
Achieve
Users benefit
Create
Share
How do we get people to use
Small Issues
Different Learning styles
Teacher Time Availability
Sugar Developers priorities toward usability
Action Items
User-friendly
Hardware
Software
Wetware
Means to get there
Getting Teacher Buy-in
Teacher is primary client
Make Job easier
Teacher Training
Happens through Sugar/XO
Video Tape/Podcast lesson
Teacher Feedback and Usability studies


Winning Teachers
Translating OLE Nepal Materials to English/Spanish/ Everywhere
Create Training Infrastructure
Repository
ML? Mailing List
What is the facilitation model that allows this to work?
Put into Repository
Training Materials
Teaching Plans
Videos
Introduce Teachers to Sugar Collaboration Model
Training List
edu bug tracker
Training Center/Virtual Qwaq or Linden Labs
Outsource Cost to Local Teacher Union/Chamber of Commerce/University Model
Layers of Funding
Menu of options to fund
Break into small bits(Obama Model)
A ton of small donors $5000-$10000 Chunks


Teacher Training Talk
Yama/ED
Floss manuals
Mexico c Satus?
Integrate XO/Sugar into School of Education
Harvard
Olin
Partnering
Get feedback
From teachers
as to results of TT? Teacher training
Kids
With other similar specific projects
Curriki
cnx.org
Connexions
Replace Wiki
Ed gets us space
By default sign up teachers
List
Community
Textbooks
Visual
Cuisenaire Rods
Make in Etoys
Montessori stuff

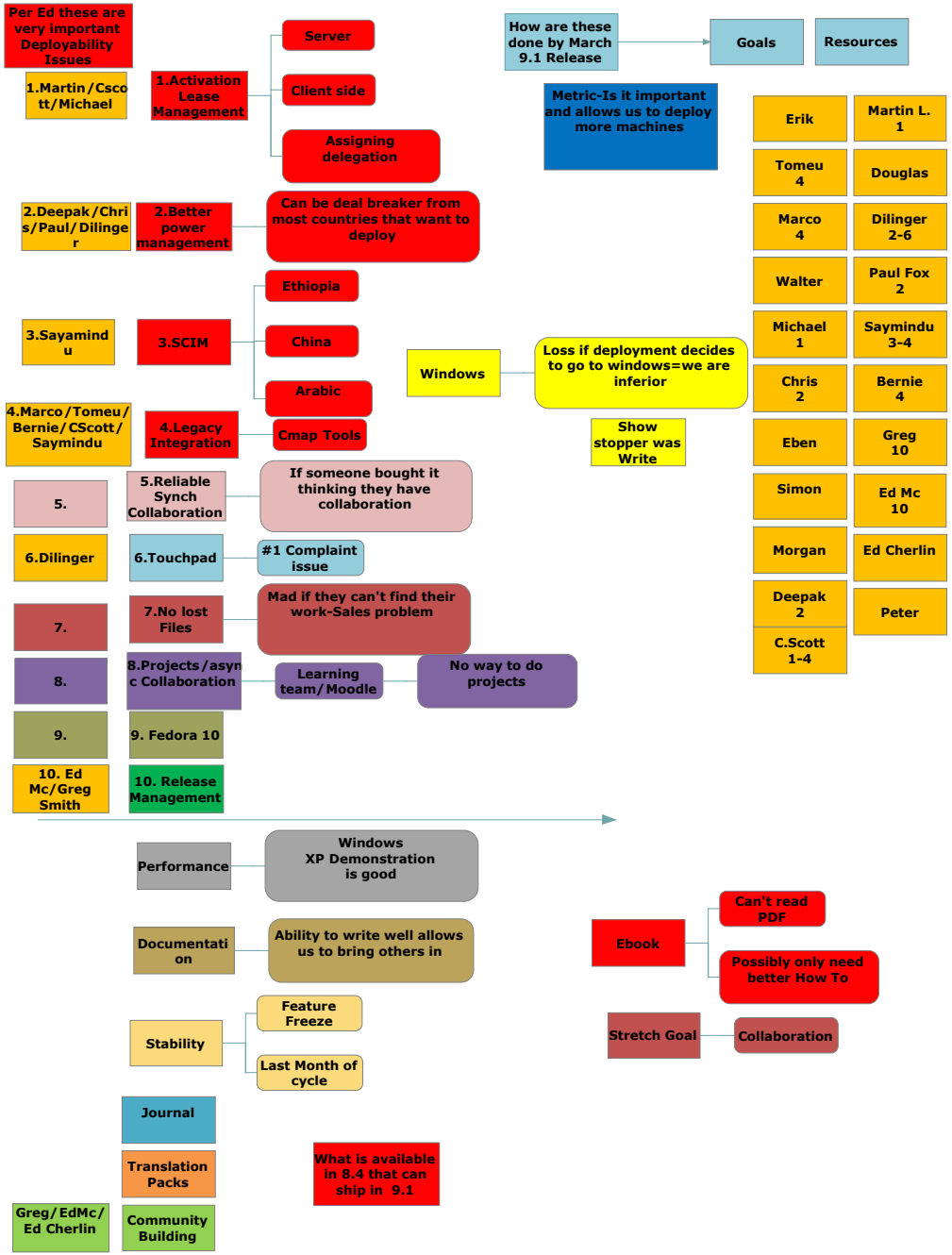

— Floss manuals
— Mexico @ status?
— Partnering with other similar specific projects
example: curriki
cnx.org
Harvard
Olin
— Integrate XO/Sugar into school of education curriculum
— Get Feedback
— from teachers
— kids
— &c
as to results of TT
— Textbooks (visual cuisenaire rods etc
↳ &c Montessori stuff)
— by default sign up teachers to — list or community
↳ o
— replace wiki (ed gets us space)

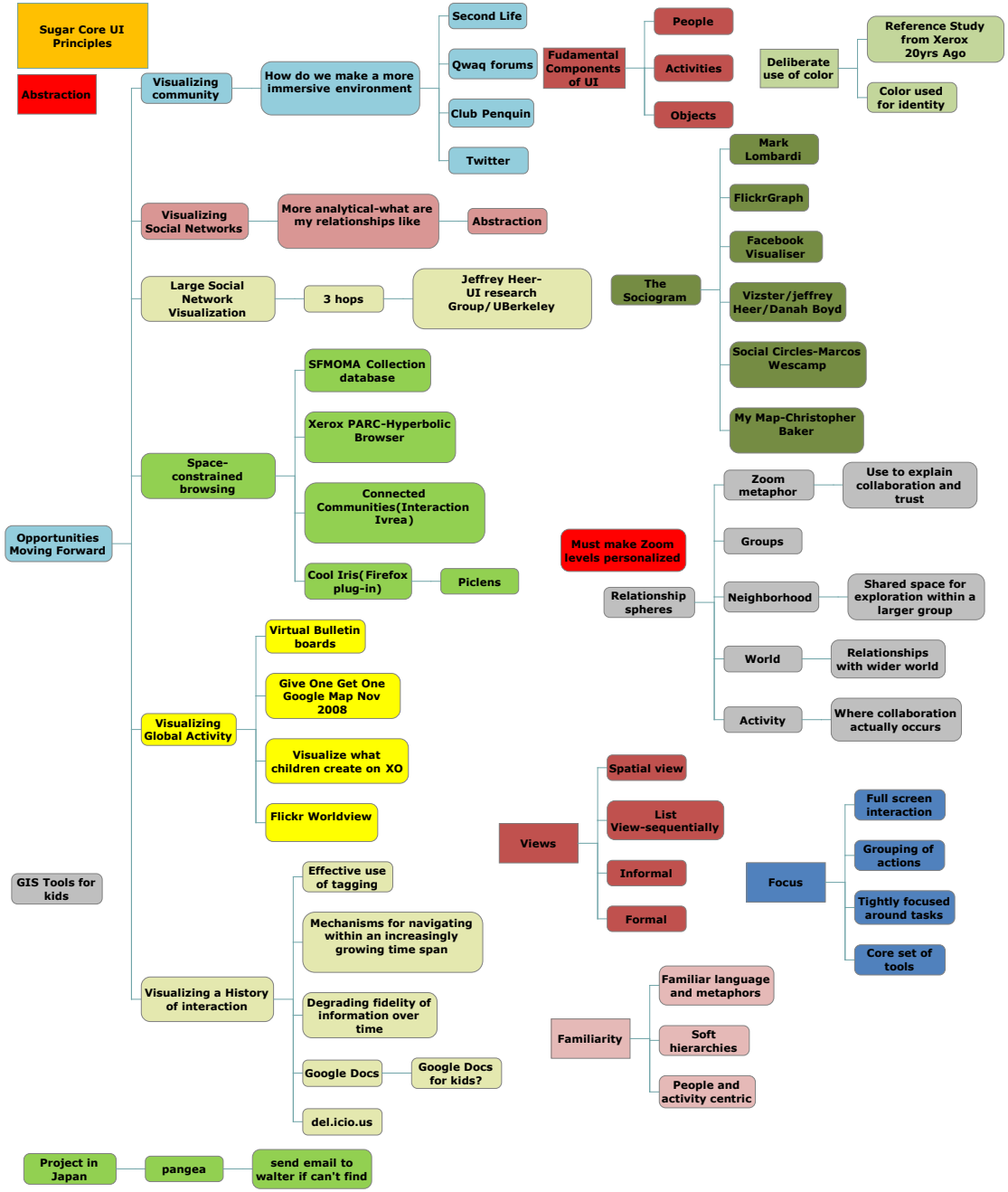

Ed Cherlin
What fell through Cracks
Declared out of scope
What we can do about it
All about relationship building
Nicholas must raise more money
Fix Window Manager
Code More Sugar
Electricity in Villages
Internet in Villages
Teacher training
Health
Grant Writing
War
Employment
Educated people with no job in field
Improve existing business
Curriculum
Localization
Out of Scope Areas are really constraints to successful deployments
Floss Manuals- Have sustainable model
Go to Government ask them to pay for new textbooks to allow children to learn on laptops
Built in Textbook sprints
Rapid Prototype Model
Leveraging Laptops
Use expert model
Teachers and Students to create lessons
Release as you go
Social Networking for NGO's
Engineer without Borders
Build relationship
Working on best source of renewable energy for anywhere in world
YRITC.org
Doctors Without Borders
Health Care options with XO
Microfinance
FANT SUAM Foundation
Earth Treasury
What is out of scope for OLPC/Sugar Labs is in scope
OLE Centers need their own business plans
Entrepreneurship
Financial literacy
Grant Writing
Proof of where this will be used
Template of grant to NSF and
STEM/Purdue Discovery Park
Create supporting materials so that deploying sugar can be part of grant process
Knight Foundation
Caroline Meeks and JT
SJ
Yama
Civic Education curriculum Dr. Helen Haste, HGSE
Put OLPC/Sugar into every University Education School
University of Education Winneba
One Village Foundation
Echo Village Project
Catch IT Young
Get to Politicians
Start w/Illinois has 5000 lowcost laptop?
Software Bugs
Education Bugs
Need filtration Process
Need to create feedback loop so teacher can use
Handled now by In country tech support
Overloaded with low level problems
What do high quality bugs look like
Museum Pilot
30 XO Setup
Classrooms & Parents come through
email Local/State/National Leaders

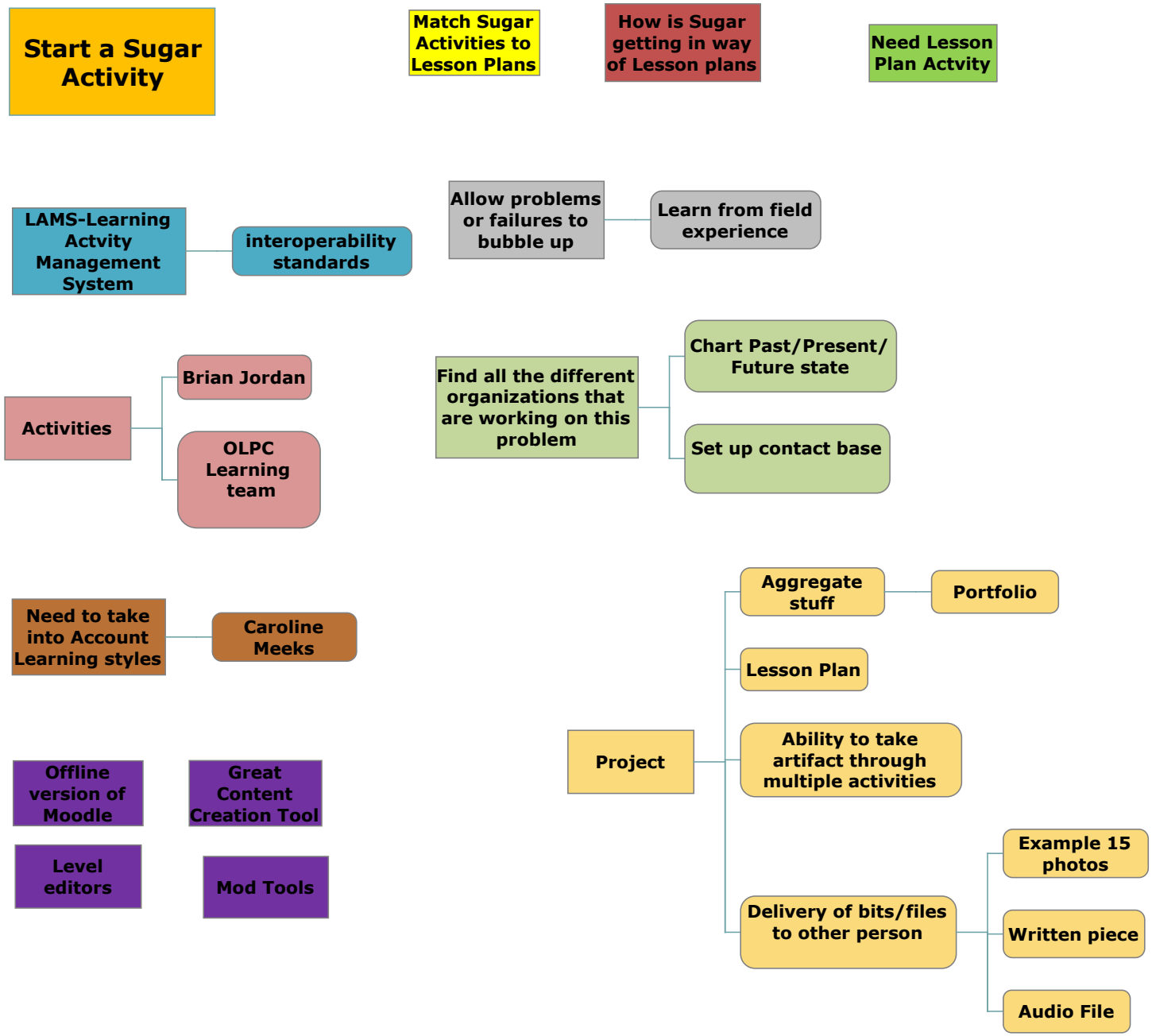

Constraints to Deployment
March Release of 9.1
What we must do to move forward
Fix Existing Customers Problems
Constraints
How do they apply to critical path
When Sugar can be successful Upstream that in turn helps OLPC
Walter
Worry of making customers happy vs ability to work on new stuff
Scott
Ed McEnierney
We must commit to Fedora Community
What is it that OLPC is being sold by those they have employed
What is OLPC buying from those that they hire
Activation
Power Management
Asynchronous Collaboration
Ability to Transfer Files
Synchronous collaboration
Fix bugs so you can see and connect to others
Legacy Apps
No Lost files
Track Pad
Ebook Reader
Spelling Checker
Need font first
Language Localization
SCIM is Problem
Software Localization
Internationalization
Obstacles to Deployment
Lease Management
Anti-Theft
Long-term loan vs. Ownership
Infrastructure
School server
Printing
Power Consumption
Software Power Management

Uruguay Deployment
Agriculturally Rich
Maintains free public university to all Free education all the way through
Chris Ball
Michael Stone
Argument
Need to look at entire distribution chain
More software development on own in Sugar
Need to understand their needs
Changed from an education project to a connectivity project
Rural first deployment model
3 million residents
Stakeholders
Very strong Teachers Union
Children ages 6-12
LATU
CEIBAL
OLPC Employees
LATU-National Standards Lab
CEIBAL small part of LATU
Decisions many times made at LATU
Timeline for CEIBAL
Politically motivated
Elections 2009
Rollout to be complete by elections
Support Costs
LATU
re-flash
send back for repair
theft deterrence
checks for message with school server
spend time writing software that controls cost instead of writing software for usability with Sugar
Access Points
Wavia-Isreali Company
45 small access point $100 hardware
80 access points $500 hardware
Reply from teacher in the field
Allows for equalizer to private school
Raise the level of culture in children
For special needs kids
Ability to erase mistakes
Ability to take home allows them to work slowly
Disappointments
Software Failure
Servers-not enough space to handle all space for student
supports lease management
Handles upgrades
Student XO runs out of memory
Takes Teacher time to reflash
Hardware
300 out of 1200 sent back with problems
keys torn off
did not replace keyboard on site
Split Screen-breaks because of impact
These are actually needs
Software that should be wriiten
help with theft deterrence issue
MP3 Player
Ease workflow to research on internet and to write about
Map use of missing key to other usable key

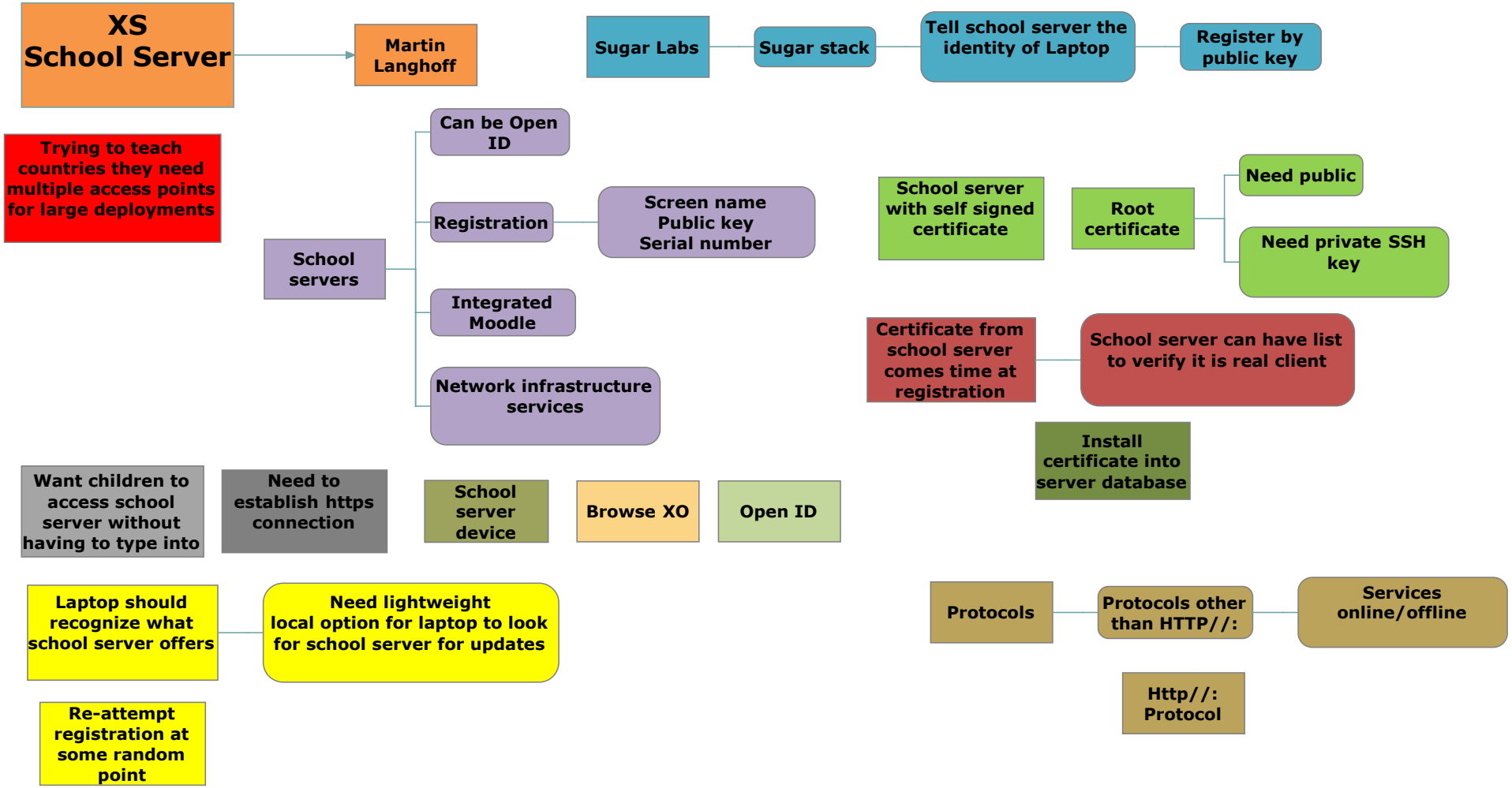
Brainstorm: OLPC 9.1 draft roadmap and priorities
Ed McNierney
9.1 rules
Don't have well thought out path to more deployments
Release Date
Try for two a year
Target for March
Freeze Date
Date Synchronization
Argument is Developers can work on Upstream Issues or better off Sugar Developers work on cool stuff instead
Settle on what happens with Journal
Michael Stone Issues
Being more attractive to converting people who come our way into useful areas
Expanding reach of Sugar in all directions
Wrap in usability and performance issue
Obstacles to Deployment
Lease Management
Anti-Theft
Long-term loan vs. Ownership
Infrastructure
School server
Printing
Power Consumption
Software Power Management
Restraints
Constraints
Resource Constraints
Less OLPC staff able to write code
Sugar Issues
Way Forward
Design Goals
Green Machine Issues
Collaboration
Compatibility and Interoperability
Friendliness of Human Interaction
Fedora 10
OLPC rebase work underway
will turn into 9.1
Fedora 10
Sugar Runs on Fedora 10
Runs on XO
What's wrong with this picture
Miscellaneous
Translation
Journal
Deployable
Security
Support
XO Explosion
Writing Software Support Fixes
Support for Hardware Issues
Fedora 11
FudCon/Xo Camp
Ideal Place for Planning
Hard Dependencies
Try releases on Halloween and May Day
Fedora 12


Per Ed these are very important Deployability Issues
1.Martin/Cscott/Michael
1.Activation Lease Management
Server
Client side
Assigning delegation
2.Deepak/Chris/Paul/Dilinger
2.Better power management
Can be deal breaker from most countries that want to deploy
3.Sayamindu
3.SCIM
Ethiopia
China
Arabic
4.Marco/Tomeu/Bernie/CScott/Saymindu
4.Legacy Integration
Cmap Tools
5.
5.Reliable Synch Collaboration
If someone bought it thinking they have collaboration
6.Dilinger
6.Touchpad
#1 Complaint issue
7.
7.No lost Files
Mad if they can't find their work-Sales problem
8.
8.Projects/async Collaboration
Learning team/Moodle
No way to do projects
9.
9. Fedora 10
10. Ed Mc/Greg Smith
10. Release Management
How are these done by March 9.1 Release
Goals
Resources
Metric-Is it important and allows us to deploy more machines
Erik
Martin L. 1
Tomeu 4
Douglas
Marco 4
Dilinger 2-6
Walter
Paul Fox 2
Michael 1
Saymindu 3-4
Chris 2
Bernie 4
Eben
Greg 10
Simon
Ed Mc 10
Morgan
Ed Cherlin
Deepak 2
Peter
C.Scott 1-4
Windows
Loss if deployment decides to go to windows=we are inferior
Show stopper was Write
Performance
Windows XP Demonstration is good
Documentation
Ability to write well allows us to bring others in
Ebook
Can't read PDF
Possibly only need better How To
Stability
Feature Freeze
Last Month of cycle
Stretch Goal
Collaboration
Journal
Translation Packs
Greg/EdMc/Ed Cherlin
Community Building
What is available in 8.4 that can ship in 9.1


Sugar Core UI Principles
Abstraction
Opportunities Moving Forward
Visualizing community
How do we make a more immersive environment
Second Life
Qwaq forums
Club Penquin
Twitter
Fudamental Components of UI
People
Activities
Objects
Deliberate use of color
Reference Study from Xerox 20yrs Ago
Color used for identity
Visualizing Social Networks
More analytical-what are my relationships like
Abstraction
Large Social Network Visualization
3 hops
Jeffrey Heer-UI research Group/UBerkeley
The Sociogram
Mark Lombardi
FlickrGraph
Facebook Visualiser
Vizster/jeffrey Heer/Danah Boyd
Social Circles-Marcos Wescamp
My Map-Christopher Baker
Space-constrained browsing
SFMOMA Collection database
Xerox PARC-Hyperbolic Browser
Connected Communities(Interaction Ivrea)
Cool Iris(Firefox plug-in)
Piclens
Must make Zoom levels personalized
Relationship spheres
Zoom metaphor
Use to explain collaboration and trust
Groups
Neighborhood
Shared space for exploration within a larger group
World
Relationships with wider world
Activity
Where collaboration actually occurs
Visualizing Global Activity
Virtual Bulletin boards
Give One Get One Google Map Nov 2008
Visualize what children create on XO
Flickr Worldview
Views
Spatial view
List View-sequentially
Informal
Formal
Focus
Full screen interaction
Grouping of actions
Tightly focused around tasks
Core set of tools
GIS Tools for kids
Visualizing a History of interaction
Effective use of tagging
Mechanisms for navigating within an increasingly growing time span
Degrading fidelity of information over time
Google Docs
Google Docs for kids?
del.icio.us
Familiarity
Familiar language and metaphors
Soft hierarchies
People and activity centric
Project in Japan
pangea
send email to walter if can't find


Start a Sugar Activity
Match Sugar Activities to Lesson Plans
How is Sugar getting in way of Lesson plans
Need Lesson Plan Actvity
LAMS-Learning Actvity Management System
interoperability standards
Allow problems or failures to bubble up
Learn from field experience
Activities
Brian Jordan
OLPC Learning team
Find all the different organizations that are working on this problem
Chart Past/Present/ Future state
Set up contact base
Need to take into Account Learning styles
Caroline Meeks
Project
Aggregate stuff
Portfolio
Lesson Plan
Ability to take artifact through multiple activities
Delivery of bits/files to other person
Example 15 photos
Written piece
Audio File
Offline version of Moodle
Great Content Creation Tool
Level editors
Mod Tools

Recent Design Proposals
How do we manage groups
Groups
Primary Design Objectives
Easy access to connect to
Friends
New activities
Resume previous Activity
Convey meaningful Social structures
Meaningful methods for distinguishing groups and types of groups
Open
Closed
How we create group
Group has Name
Number of people
How can you preserve a group
Action/Object split
Wanting to move up to Moodle level to create groups
Managing Groups/Open Group
Free to leave
Anyone can invite someone new
Can't change color or name
Closed Group
Only instructors have ability to Create Group/Invite
Private Group?
Get more activities/Activity
Separate Things
Upgrading Activities
Home
Easier way to resume a previous activity
Kid home View
All the activities children have chosen as important
Have teacher view you can instantly go to
Ability for Teacher to set up Lesson Work Area
Neighborhood
Look to Presentation for info
Journal
Easy access to retrieving past activities or previous creation
Scalability- navigating within
Actions
Things you do
Objects
Archive of what you've done
Toolbars
Cascading Toolbars
Rearrangeable Toolbars


XS
School Server
Martin Langhoff
Sugar Labs
Sugar stack
Tell school server the identity of Laptop
Register by public key
Trying to teach countries they need multiple access points for large deployments
School servers
Can be Open ID
Registration
Screen name
Public key
Serial number
Integrated Moodle
Network infrastructure services
School server with self signed certificate
Root certificate
Need public
Need private SSH key
Certificate from school server comes time at registration
School server can have list to verify it is real client
Install certificate into server database
Want children to access school server without having to type into
Need to establish https connection
School server device
Browse XO
Open ID
Laptop should recognize what school server offers
Need lightweight local option for laptop to look for school server for updates
Re-attempt registration at some random point
Protocols
Protocols other than HTTP//:
Services online/offline
Http//: Protocol