

UPSTREAM

PARTICIPATE

CONTRIBUTE

MAINTAIN

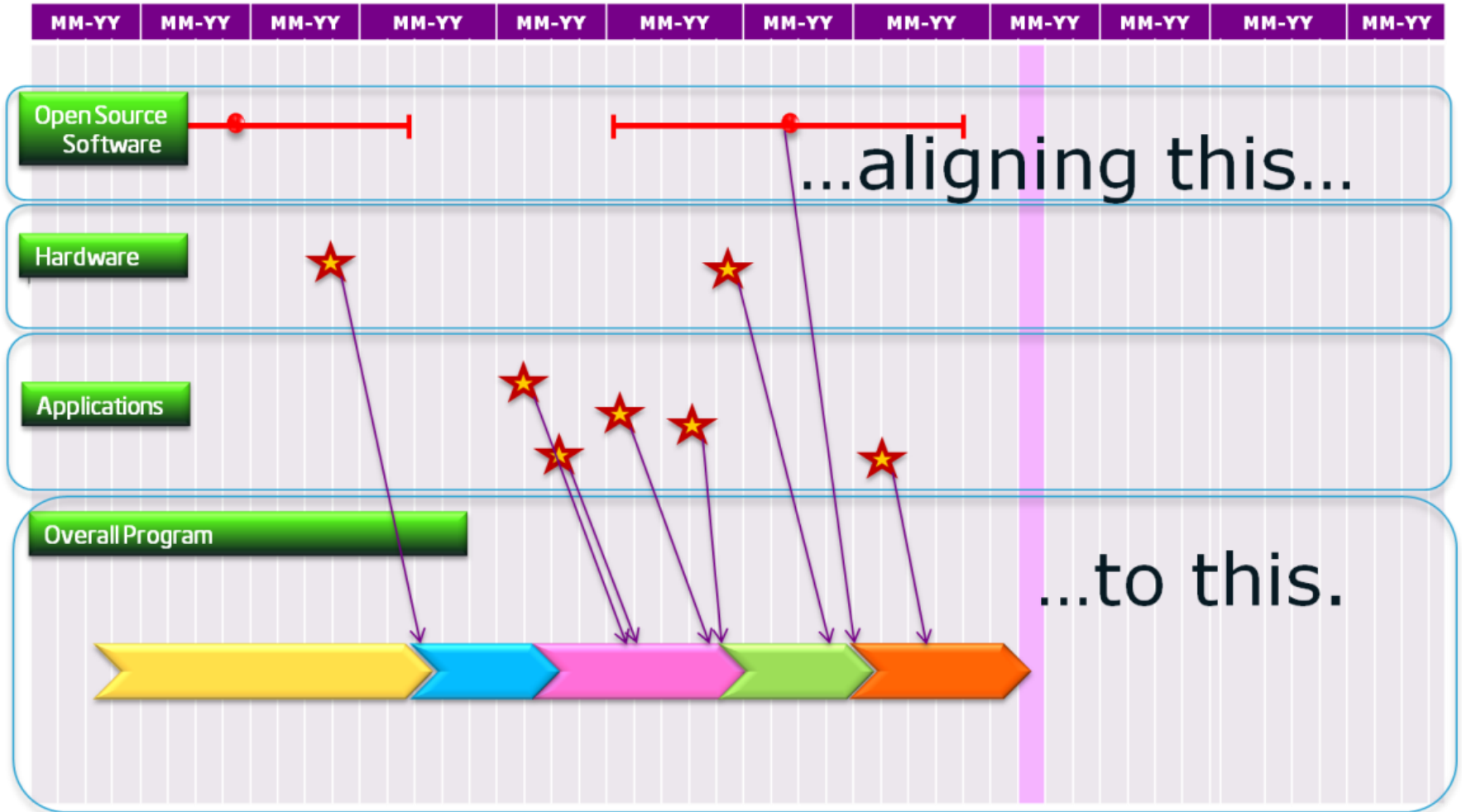
**Delivering Quality and
Predictability
*While Embracing the Open
Source Spirit***

August 17th, 2011

Julie Fleischer, Intel Corporation

**INTEL OPEN SOURCE
TECHNOLOGY CENTER**

We Will Cover...



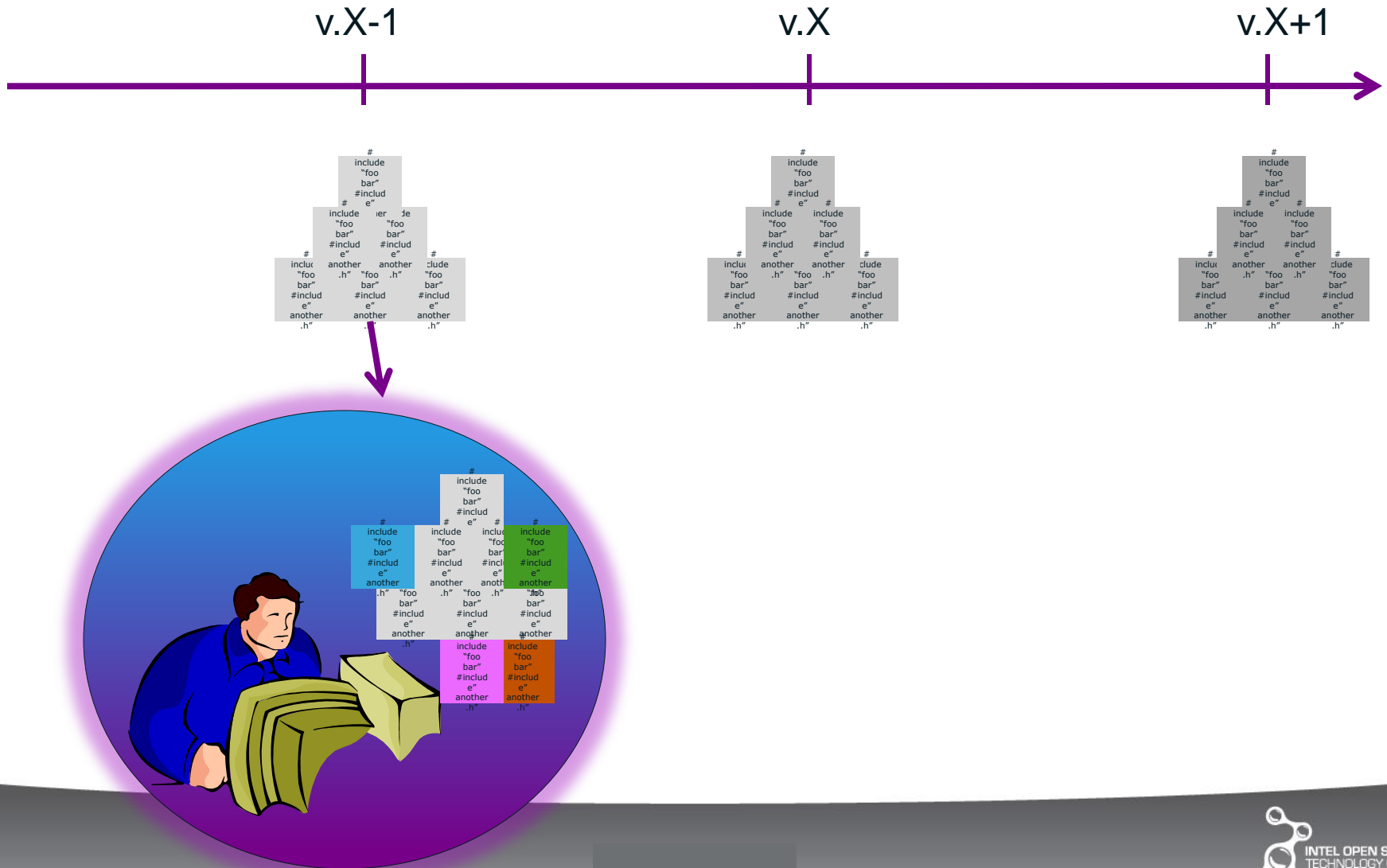
The Tips on Delivering Quality

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- Tip #2: Leverage the open source community
- Tip #3: Stick with what is familiar
- Tip #4: Focus on the need, not the name
- Tip #5: Begin all proposals with a strawman
- Tip #6: Always have a list of tasks needing volunteers
- Tip #7: Respect your community

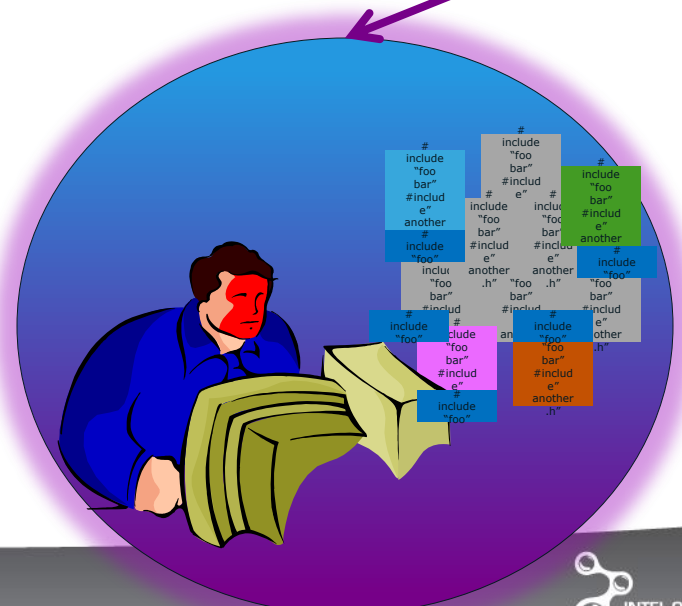
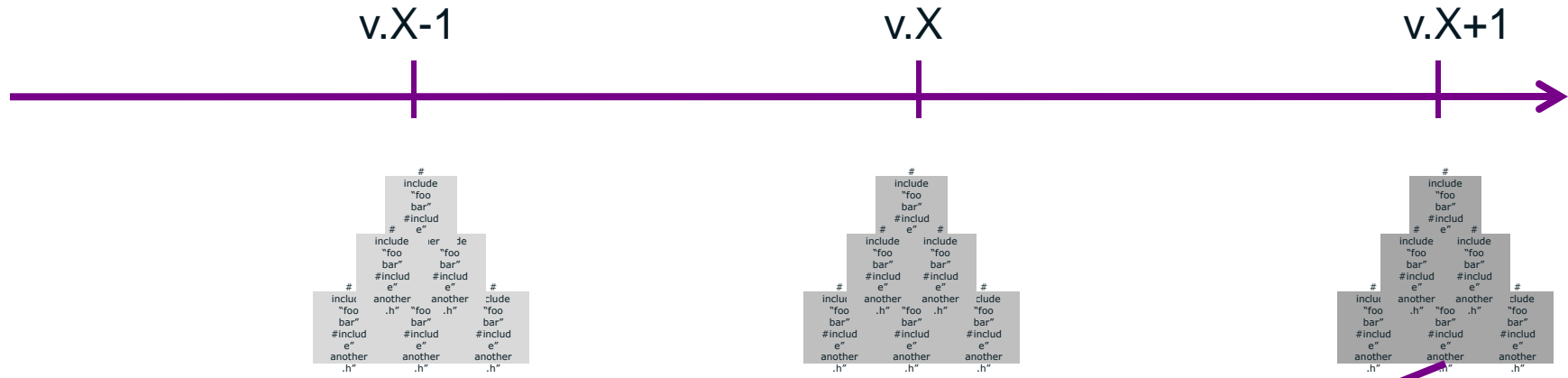
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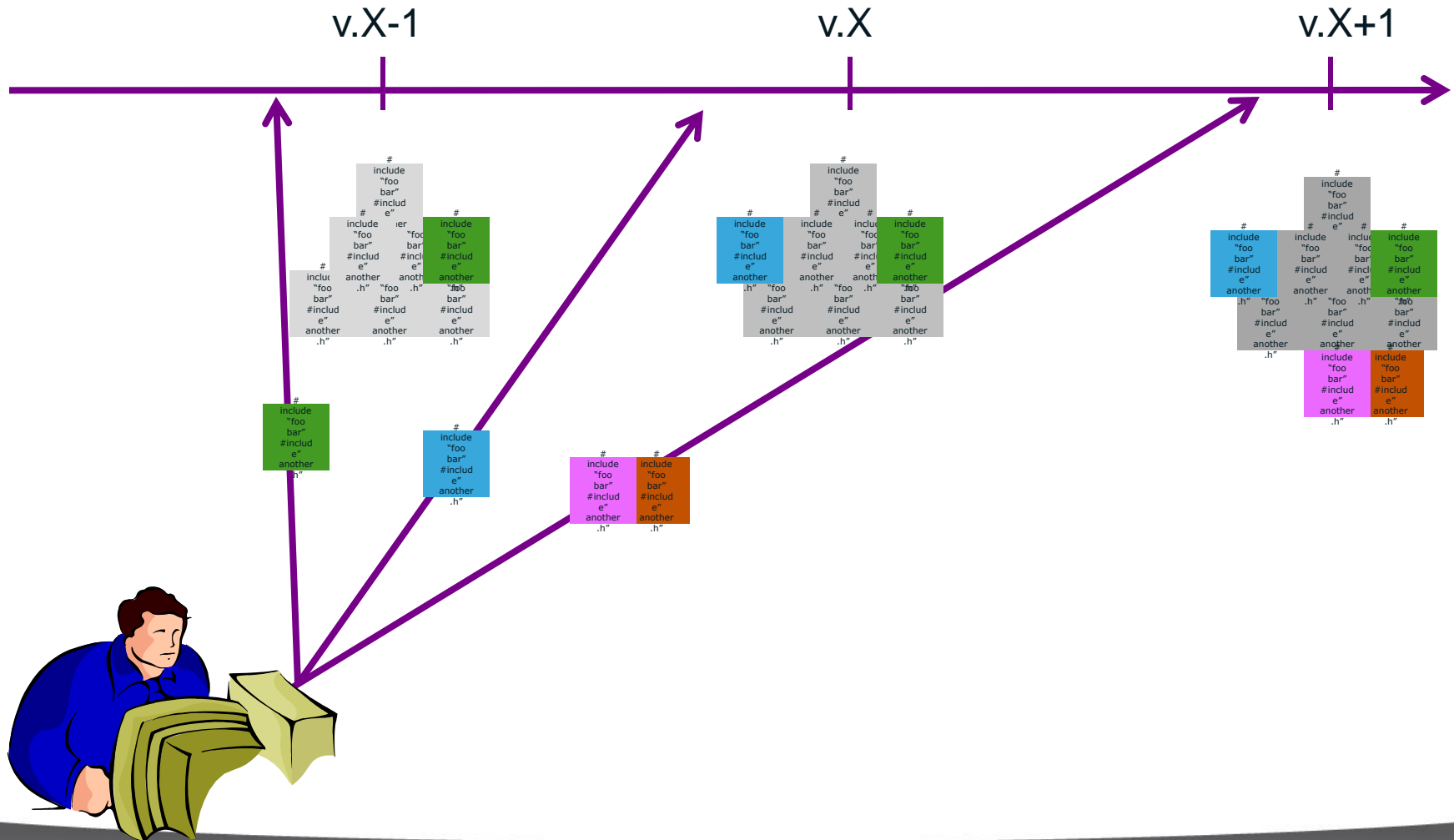
An Open Source Project has its own timeline...



If you develop outside of the timeline...



Tip #1: Leverage the open source environment



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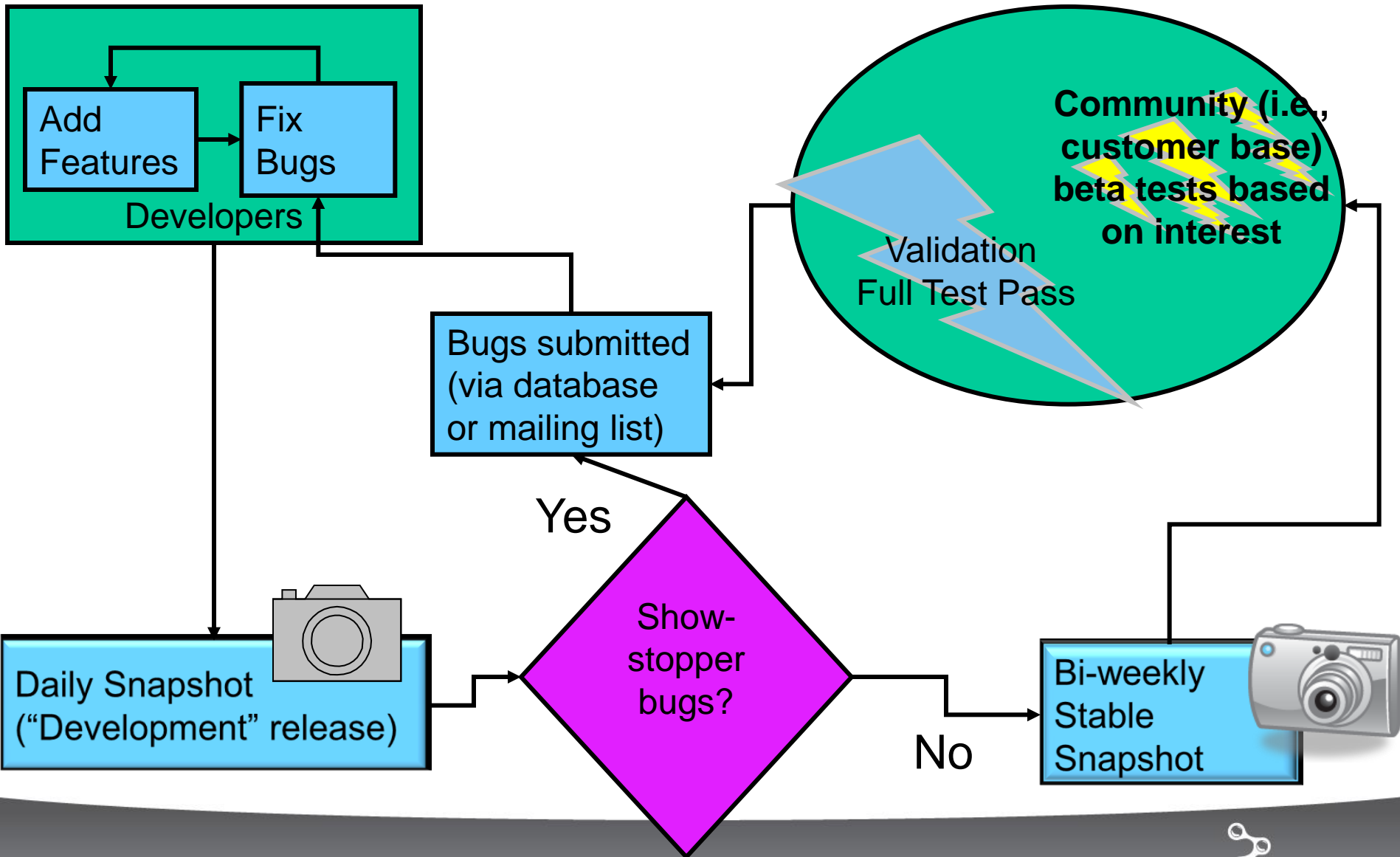
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When I was Validation Lead for an exciting open source project...

We had an active open source community and could easily embrace the mantras:

- Release early, release often.
- Give enough eyes, all bugs are shallow.

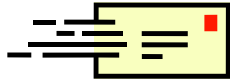
Tip #2: Leverage the open source community



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This open source project had a solid requirements definition process...



Define requirements



Prioritize requirements



Put requirements in Wiki

Create and track schedule

Yocto 1.1 Schedule

Contents [hide]	
1	Yocto Project 1.1 (release date: October 6, 2011)
1.1	pre-M1 (March 14 to April 18 – Feature List and Schedule Defined April 18)
1.2	M1 (Apr 18 to Jun 13 – Design Complete Apr 25, Dev Complete May 23, Stabilize Complete Jun 6, Release Complete Jun 13)
1.2.1	M1 Design (Apr 18 to Apr 22)
1.2.2	M1 Sprint A (Apr 25 to Apr 29)
1.2.3	M1 Sprint B (May 2 to May 6)
1.2.4	M1 Sprint C (May 9 to May 13)
1.2.5	M1 Sprint D (May 16 to May 20)
1.2.6	M1 Stabilize (May 23 to June 3)
1.2.6.1	Stabilize schedule
1.2.7	M1 Release (June 6 to June 13)
1.3	M2 (May 30 to Jul 25 – Design Complete Jun 6, Dev Complete Jul 4, Stabilize Complete Jul 18, Release Complete Jul 25)
1.3.1	M2 Design (May 30 to June 3)
1.3.2	M2 Sprint A (June 6 to June 10)
1.3.3	M2 Sprint B (June 13 to June 17)
1.3.4	M2 Sprint C (June 20 to June 24)
1.3.5	M2 Sprint D (June 27 to July 1)
1.3.6	M2 Stabilize (July 4 to July 15)
1.3.6.1	Stabilize schedule

M1 (Apr 18 to Jun 13 – Design Complete Apr 25, Dev Complete May 23, Stabilize Complete Jun 6, Release Complete Jun 13)

M1 Design (Apr 18 to Apr 22)

Feature Name	Description	Priority	Status	Source	Owner	Comments / Bugzilla Links
3G Design	We have an ofono recipe but need some integration work done. This milestone is a status check and design update. HW needs 2 to be received at this time.	2	Done	Meta-data	Saul (Original)	M1 Sprint C - design done, implementation starting, team in FRAC will work on getting machine with 3G modem and SIM card. If there are kernel issues, vendor needs to add this in BSP.
Automatically generate package recipe - design	automatically generate package repositories (and be able to 'use them' - to be defined) for both git and concierge combinations; also, documentation of this process is essential; this stage is the design phase.	2	Done	Team	Saul (Devant)	M1 Design
OE Autobuilder rename	Strip out LSB, non-LSB build work done at the end of 1.0 and incorporate it with yocto.	1	Done	Beth	Beth	M1 Design

M1 Sprint A (Apr 25 to Apr 29)

Feature Name	Description	Priority	Status	Source	Owner	Comments / Bugzilla Links
OE Core	Restructuring, renaming, rebranding	1	Done	RP Notes	Richard	M1 Sprint A - only remaining piece is for OE Core to work without setting a distro (wasn't originally scheduled) - this is a new task for ED this week.
SDK support in samty test framework	This task includes enabling units and toolchain testing in samty test framework, enabling toolchain testing on FRAC autobuilder.	1	Done	QA	Jajun/Mukli	M1 Sprint A
User Creation at preinstall - status check	Design status check	1	Done	RP Notes	Mark (Saur)	M1 Sprint A architecture was sent out as RFC
Check SRCREV in recipe files	should work, may need dev	2	Done	RP Notes	Richard/Ka	M1 Sprint A
Refactor BSPs to use http branches	crowbar and fish over island BSP need to be changed to make use of the new http://mgmt.grub02.org/ topic branches	2	Done	Tom	Tom	M1 Sprint A When other branches (ex. FR2) are added, they will use http branches.
Retrospective	Hold a retrospective to discuss what went well and what can be improved in 1.1 with the meta-data team.	1	Done	Beth	Beth	M1 Sprint A

M1 Sprint B (May 2 to May 6)

I didn't try to change this, I just tried to understand it.

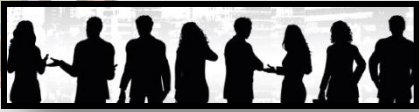
Then, we could add...



Define requirements



Prioritize requirements



Community input



Developer input

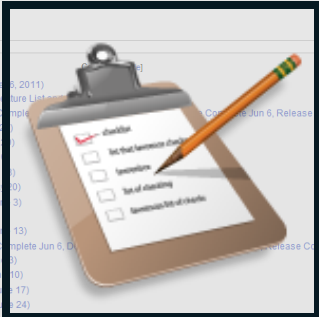


Put requirements in Wiki

Create and track schedule

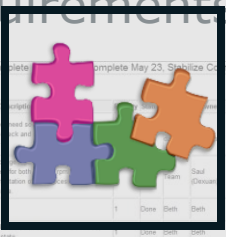
Yocto 1.1 Schedule

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Release criteria

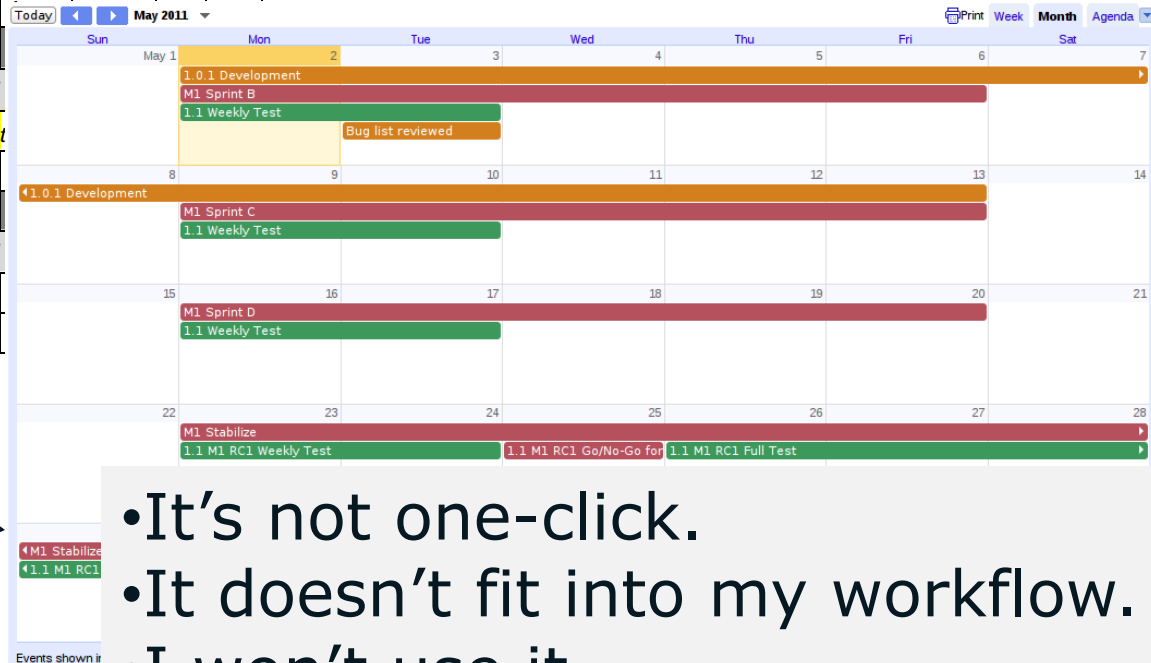
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Feature Name	Assignee	Comments / Bugzilla Links
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Automatically generate package recipe - design	Saul	M1 Design
OE Autobuilder rename	Saul	M1 Design
Strip out LSB, non-LSB build work	Both	M1 Design - one minor problem



Breakdown of larger tasks

When I didn't stick with what is familiar...

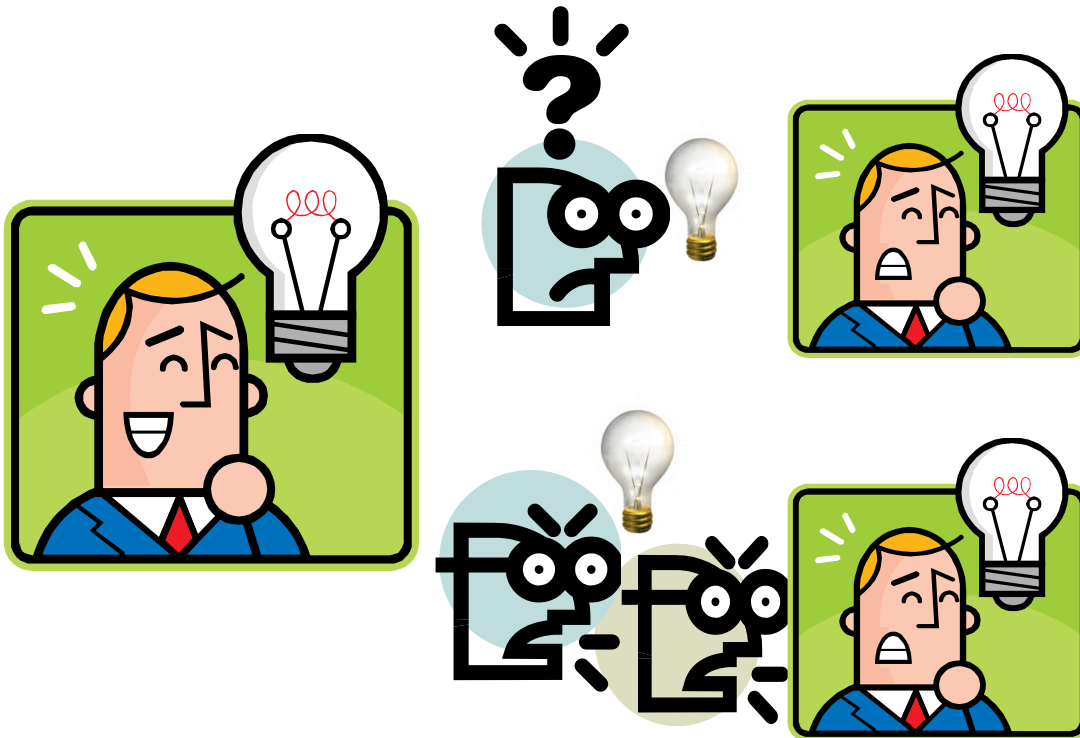
	WW	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
April	WW17		18	19	20	21	22	23
1.1 Schedule			M1 Design					
1.0.1 Schedule					Bug List defined			
QA			Weekly Test					
	WW18	24	25	26	27	28	29	30
1.1 Schedule			M1 Sprint A					
1.0.1 Schedule								
QA			Weekly Test					
May	WW19	1	2	3				
1.1 Schedule			M1					
1.0.1 Schedule				Bug list				
QA			Weekly Test					
	WW20	8	9	10				
1.1 Schedule			M1					
1.0.1 Schedule								
QA			Weekly Test					



versus

- It's not one-click.
- It doesn't fit into my workflow.
- I won't use it.
- It doesn't meet my needs.

Tip #3: Stick with what is familiar



When you don't...

At best, your message is misunderstood, and you feel undervalued.

At worst, your message is offensive, leaving you and the team feeling undervalued.



Better to leverage what exists and move towards new solutions together.

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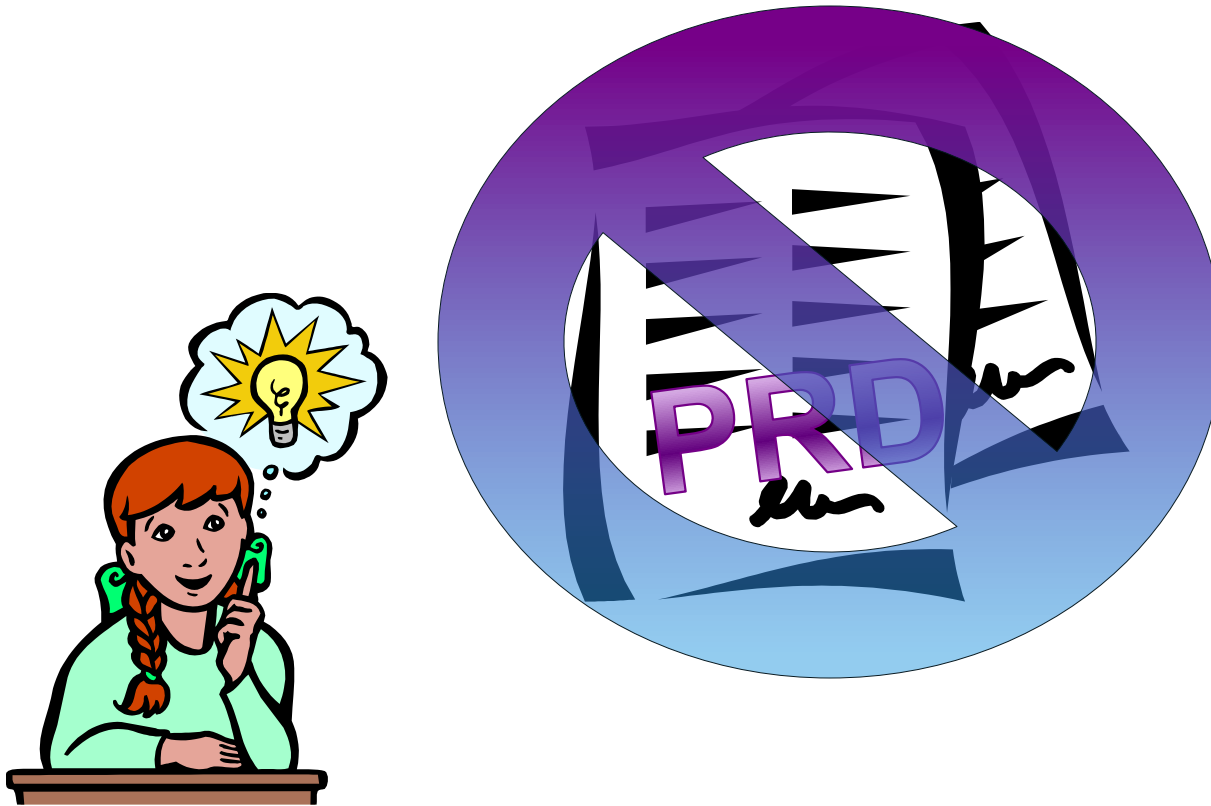
My first project: Create a Product Requirements Document



But, ...

- Project was over halfway done.
- Features and requirements were already nailed down on the Wiki.
- People would not attend meetings to discuss or follow up on action items from meetings.

The team didn't need a PRD.



The team needed to convey to other leaders that we had a stable, mature process.

Tip #4: Focus on the need, not the name

This statement...

Where is our Product Requirements Document?

Where is our GANTT chart?

Where are our Release Criteria?

... becomes THIS:

How do we track our feature ideas so we know what we want to implement and by when?

How do we know what we will deliver and by when?

How do we know if a release is “good enough” to be labeled as “stable?”

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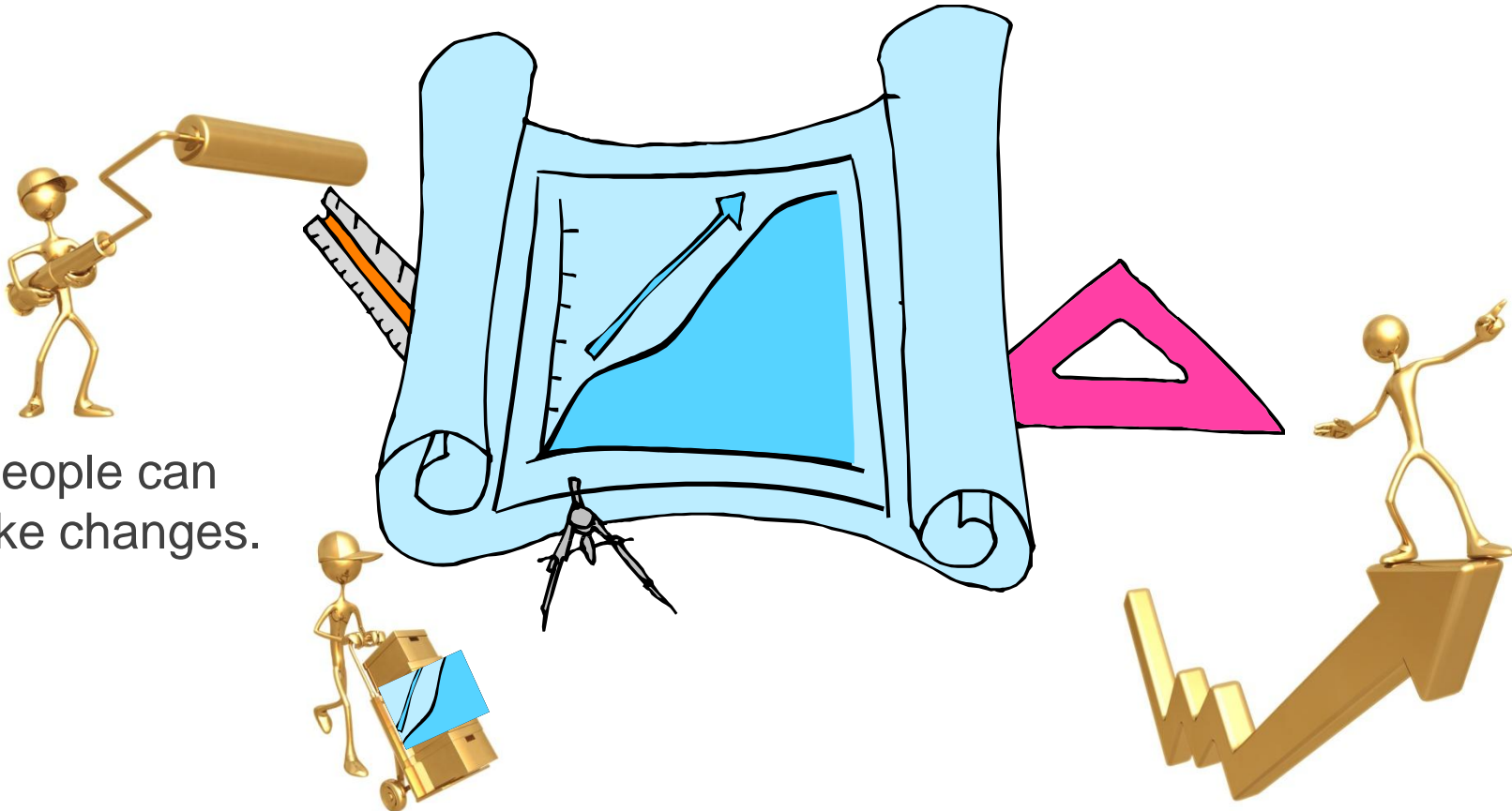
Remember “Stone Soup?”



Eventually, the whole village was fed...



Tip #5: Begin all proposals with a strawman



People can make changes.

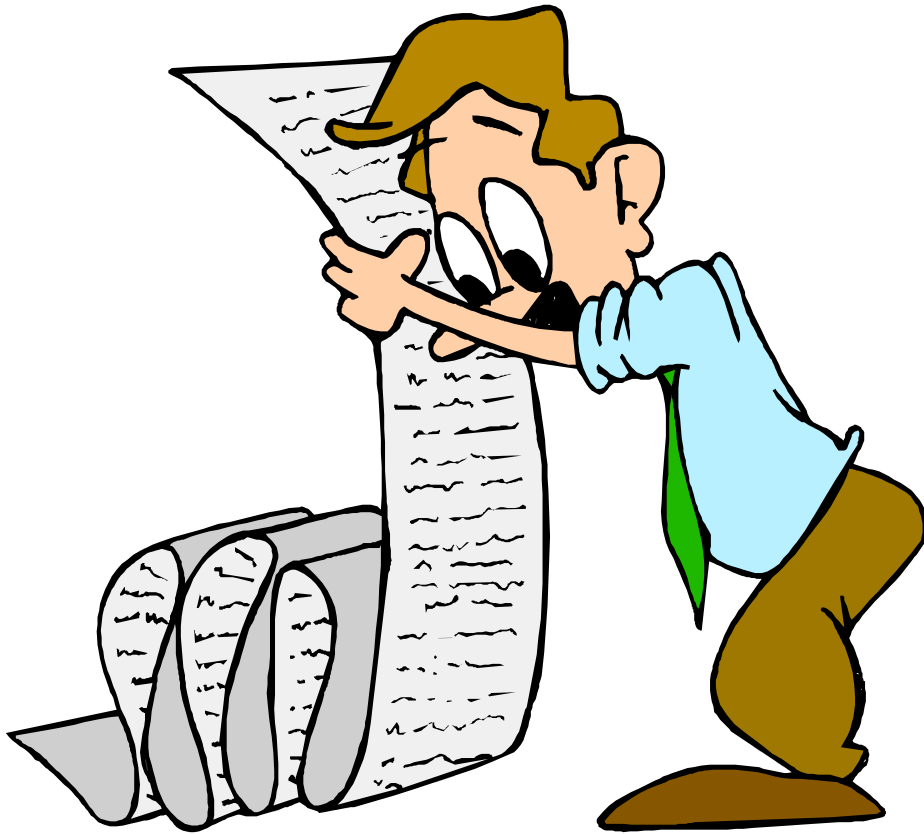
People can add or remove pieces.

You retain influence in the overall direction and ensure momentum is maintained.

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Tip #6: Always have a list of tasks needing volunteers



- This could be:
 - A bug database.
 - A Janitor's List on Wiki or website.
 - A "Features Not Scheduled" List on Wiki or website.
 - A 1-1 with key maintainers or leaders in the project.
- Include scope of task, time required, technical expertise required.

Getting newcomers actively involved...

- ...Provides them with the skills and experience to make bigger contributions

And

- Makes them feel part of the community



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Tip #7: Respect your community

Acknowledge contributions

- Even when they aren't what you are looking for.
- Especially when they are.



Embrace diversity

- Different viewpoints, agendas, skill sets and backgrounds enhance your program.
- Serendipity favors variety.



Actively listen to feedback

- Document and follow up on input.



Celebrate your milestones

- Even when everyone is virtual, find a way to celebrate the milestones.





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