



CyberPatriot



Concept Demonstration
National High School
Cyber Defense Competition
Orlando, FL, 26-27 February 2009

National Deployment
National High School
Cyber Defense Competition
Orlando, FL, 19 February 2010

National
Institution
NHS-CDC
April 2010 & BEYOND

Why, What, & What Next

E d u c a t e - A d v o c a t e - S u p p o r t



Why is a High School Cyber Defense Competition Needed?



America's *economic prosperity* in the 21st century will depend on cyber security ... this is also a matter of public safety and *national security*.



... we will begin a national campaign to promote *cyber security awareness* and digital literacy from our boardrooms to our classrooms, and to *build a digital workforce* for the 21st century.

- President Barak Obama, 29 May 2009



What is *CyberPatriot*?



CyberPatriot is a national high school cyber defense competition designed to educate and motivate the next generation of cyber defenders (& other STEM grads) the nation needs.

Three Phases:

I. Concept Demo. Feb 09 Orlando; 8 FL Teams
(7 AFJROTC/1 CAP)

Proved: Viable — excites & educates

II. National Deployment. May 09 – Feb 10; >180
AFJROTC/CAP Teams (41 states+)

**Proved: Scalability, academics
integration, program management**

III. Institutionalize. 2010-11 year – all schools

**To sustain: Full integration with
academia, government & industry;
path from 9th grade to career.**



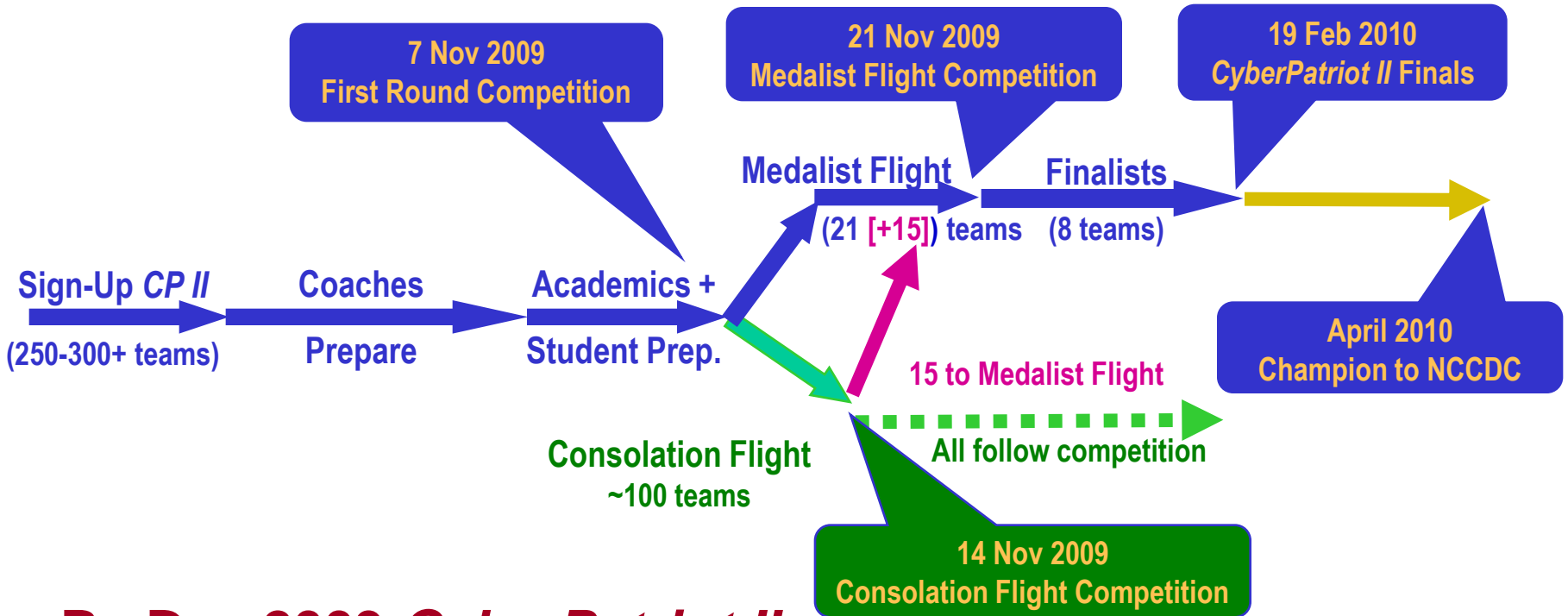


CyberPatriot II Structure

(the largest simultaneous HS competition ever!)



May 09	Jun 09	Jul 09	Aug 09	Sep 09	Oct 09	Nov 09	Dec 09	Jan 10	Feb 10	Mar 10	Apr 10
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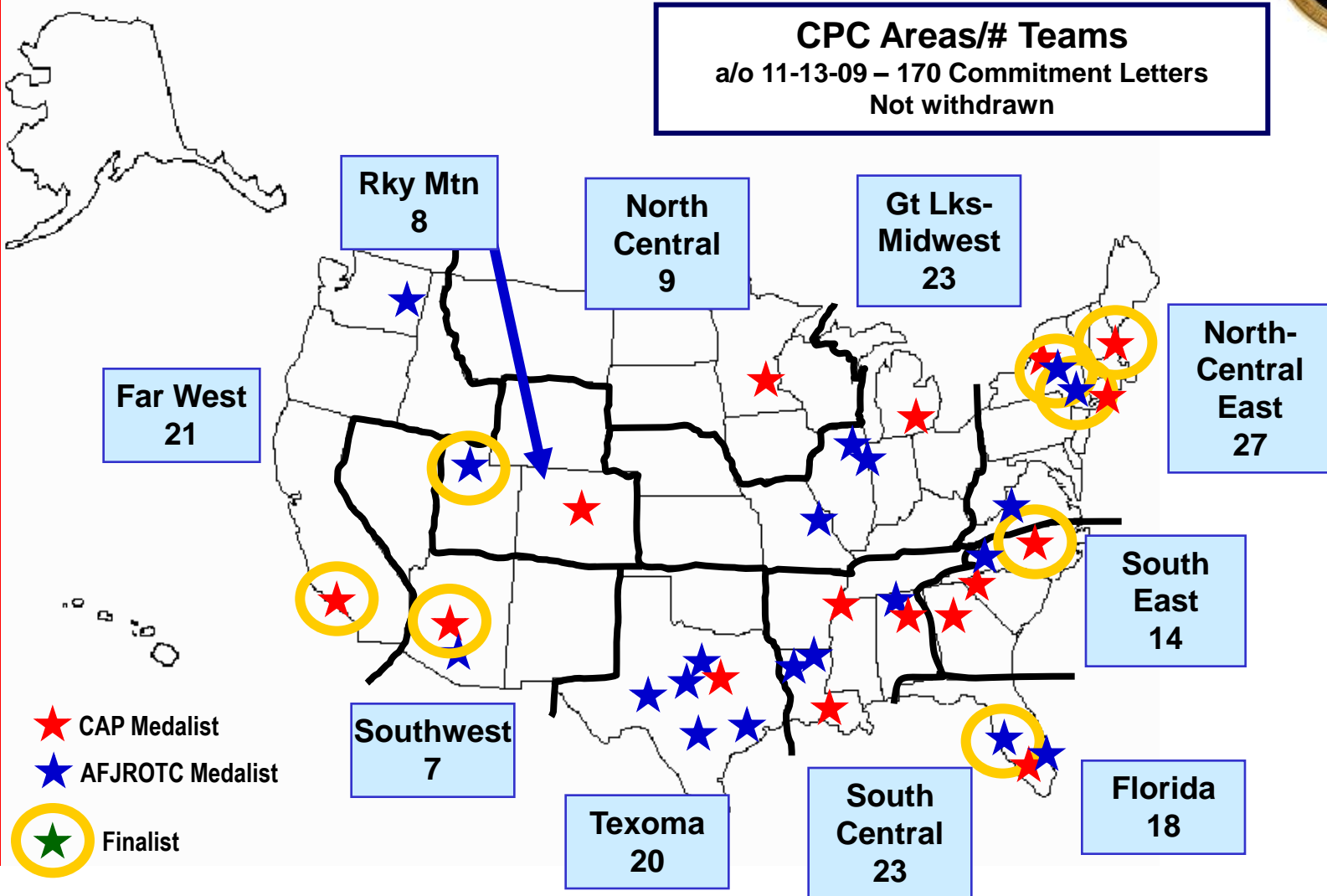


By Dec 2009 CyberPatriot II reached 20,000+ students!



CyberPatriot Dispersion

CPC Areas/# Teams
a/o 11-13-09 – 170 Commitment Letters
Not withdrawn





CyberPatriot III Structure



Grow to the Need -- Institutionalize

- Any high school nationwide
- Register: Spring - Fall 2010
- Coach preparation: Summer 2010
- Competition Structure:

Whole-class academics to start

Entry assessment

Game becomes Laboratory

Qualification competition

Consolation round

Semi-Finals

Finals in person

- **Competitor Relationship Management (CRM)**
- **Dual Divisions, Symposium & Finals**



**INTERNET
DELIVERED**





CP III Notional Structure



Web Comp

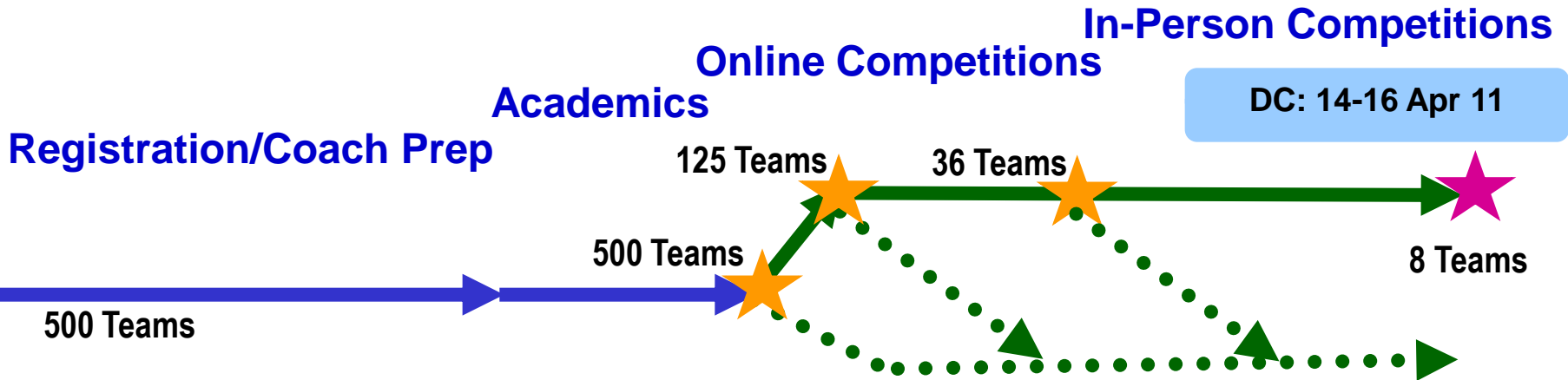
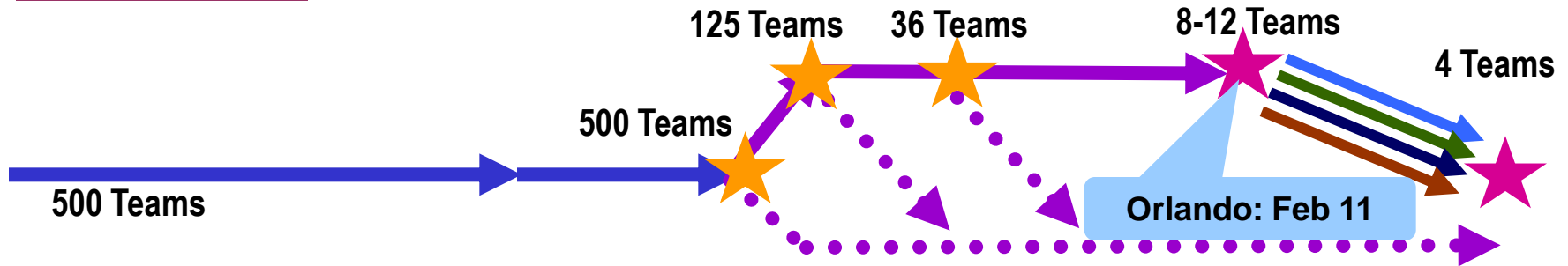
(*timeline 2010-11*)



In-person Comp

May 10	Jun 10	Jul 10	Aug 10	Sep 10	Oct 10	Nov 10	Dec 10	Jan 11	Feb 11	Mar 11	Apr 11
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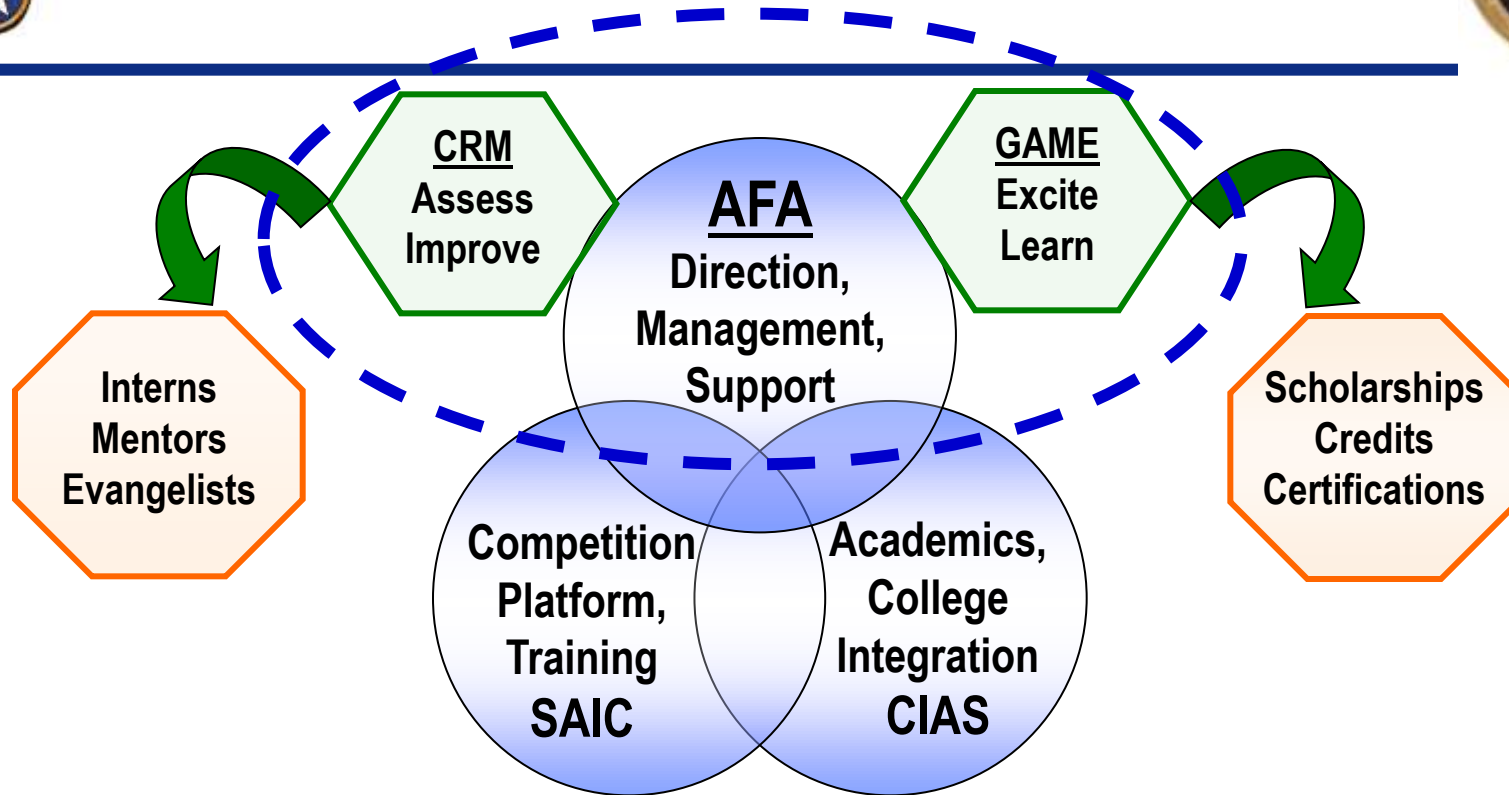
All-Service JROTC/CAP Commander-In-Chief's Division



Open Division (all non JROTC/CAP High Schools)



What We Need



External Support funds development/sustainment of the CRM and Game; assists with the direct costs of the competition; supports the leadership and management capacity. In-kind support is also sought in areas such as marketing, legal, and technology and access to corporate facilities/intellectual property (in some cases). Direct participation by sponsor's personnel in mentorship, production of educational material, and acting as competition advisers is also desired.



CyberPatriot Goals



CyberPatriot is designed to be:

- 1) Accessible to ANY HS student;**
- 2) Seamless path from HS, thru college, to the workforce; and**
- 3) Benefits all CyberPatriot partners AND our nation!**

I had a wonderful experience watching 5 CAP Cadets from Cadet Sq 107 compete yesterday in the final elimination round of Cyber Patriot II. The Cadets were very motivated and had their 3 competing workstations on fire as they collectively "battled" against intrusions... it turns out they had the top score, closing about 88% of the intrusions, and will be one the 8 final teams competing in Orlando. The 5 cadets are fired up and are excited about the next step of the competition! I also had a chance to talk to them and their families about their futures – all are interested in pursuing degrees, scholarships, USAFA appointments, etc., to have a role in cyberspace in some form in the future! USAF General Officer, MAJCOM CIO





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I fully support this initiative; it's a great idea, and these are the perfect people to be doing it.

**— Major General Curtis M. Bedke, USAF
Commander, Air Force Research Laboratory**