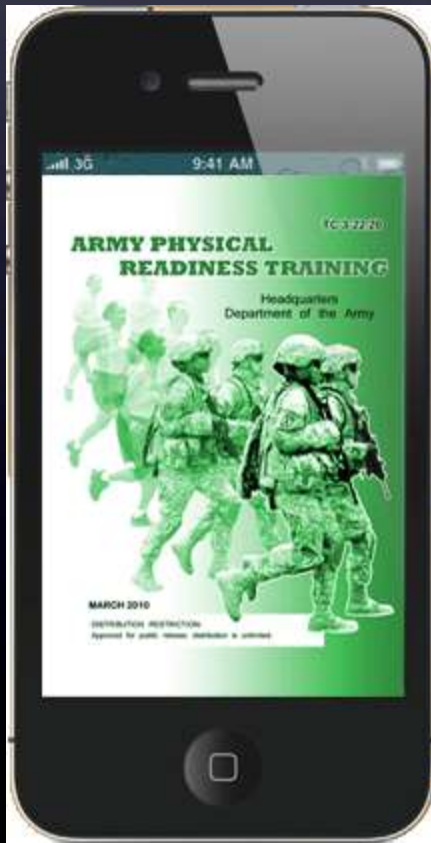




Mobile Applications

Mobile Applications Branch



LTC Gregory Motes

Fort Gordon, GA

Gregory.Motes@us.army.mil



Android OS - The First 100 Devices



Current Landscape



270,000+ Apps



350,000+ Apps



40 Apps



22,831 Apps



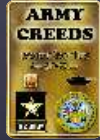
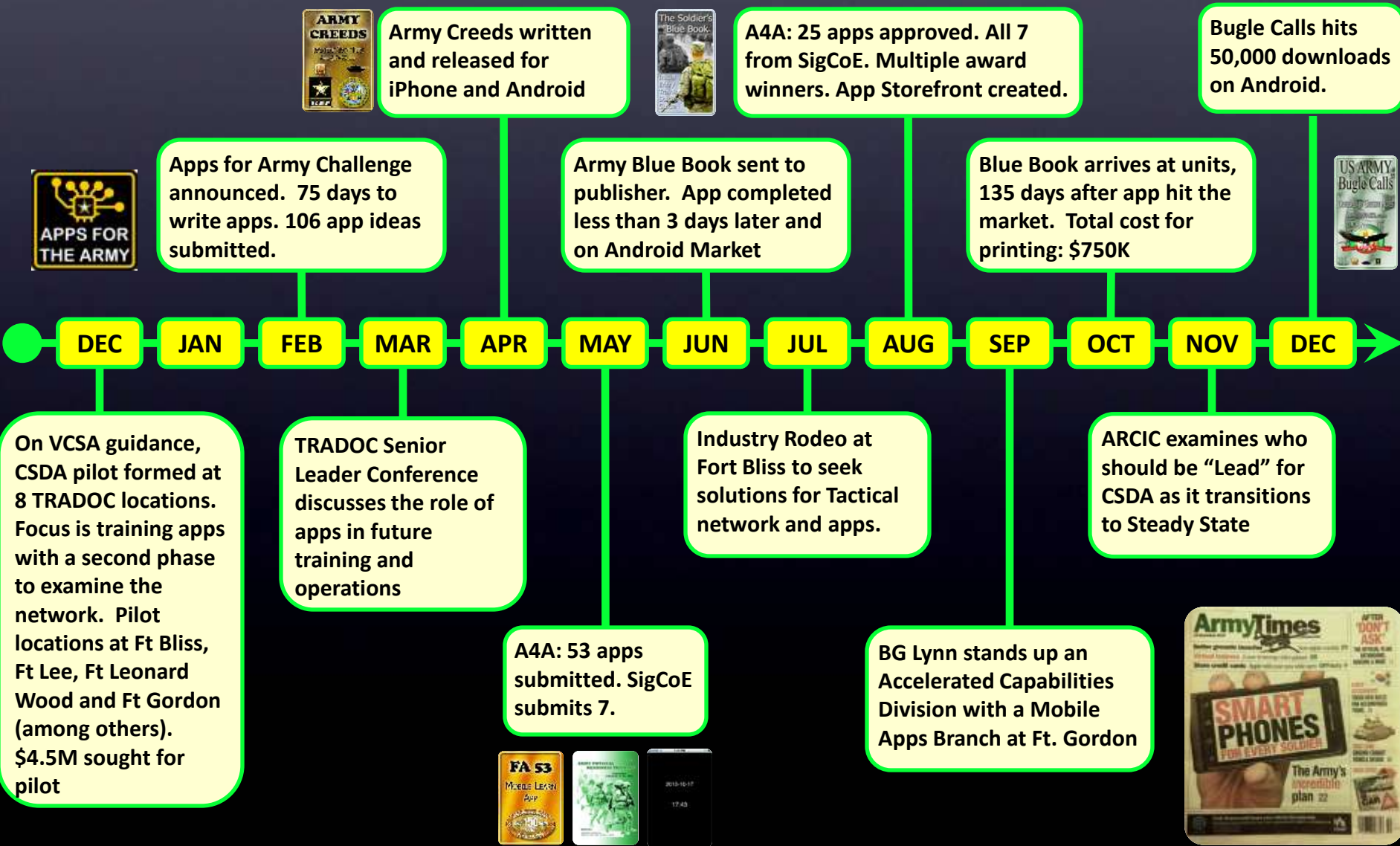
9,499 Apps



6,003 Apps



A Brief History of Army Mobile App Development (Year 1 as seen from our foxhole)

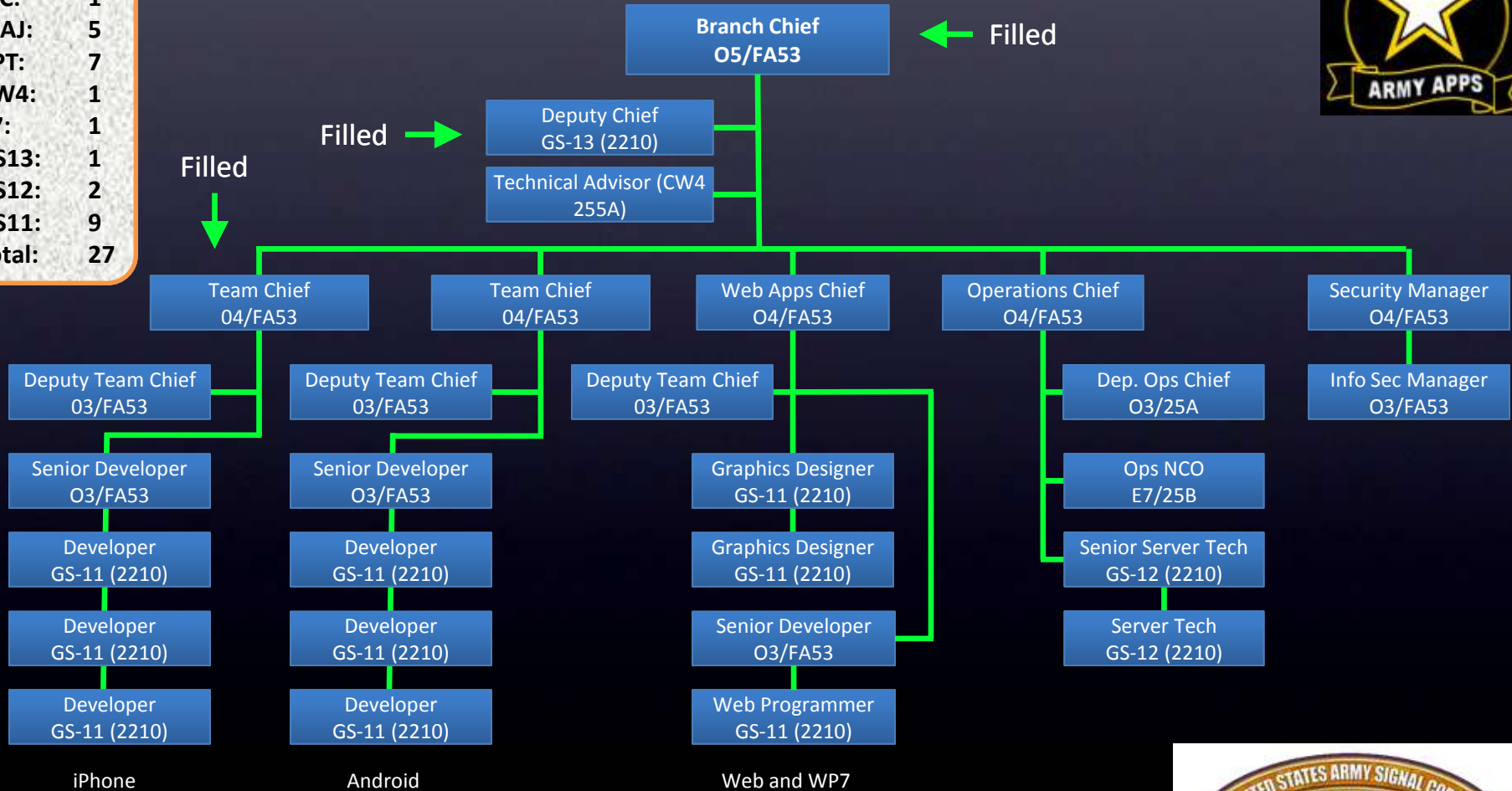


Mobile Application Branch

(Proposed)



LTC:	1
MAJ:	5
CPT:	7
CW4:	1
E7:	1
GS13:	1
GS12:	2
GS11:	9
Total:	27



Likely cost per developer for contractors to bridge the gap: \$200K/year
 15 contractors = \$3,000,000 per year



Lines of Operations

Teaching App Development



Academic Partnerships



Coding Apps



Industry Connections



Conferences



Publications



Collaborators



Others



Apps (Completed Projects)



250,000+
Downloads



175,000+
Downloads



274
downloads



Initial App In
Production



Initial App In
Production



Army Creeds



Soldier Blue Book



Signal LT Handbook



Physical Readiness Training



Sigacts



Mobile Learn



Fort Gordon Post Directory



Shok



Grid/Nav



BAH Calculator



Army Values



Bugle Calls



Rights Warning Card



AIT PSG Handbook



21B10 Handbook



BCT Smart Card



Go For Green



APFT/Body Fat Calculator



PRT Card



Signal Conference



Sniper Awareness



Capture Avoidance



AAR



Army Professional Ethic



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Not Published: Army Culture, Engineer Conference, AO Connect, DECMAT, Resiliency Goals Book, MEDEVAC

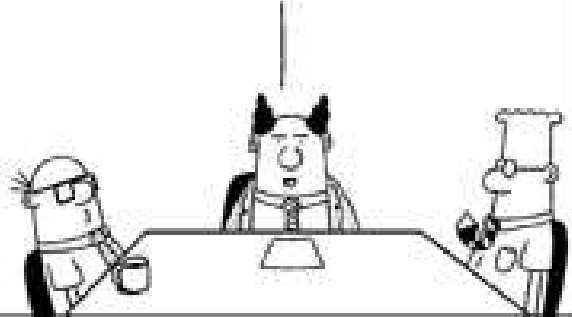
Current Issues

Relating to App Development/Distribution

- Desired devices not approved for network use due to Data at Rest / Data in Transit requirements
- Skills required for content development and app creation often require a team of people – some with skills not currently in the inventory of TRADOC content developers (Object Oriented Programming)
- Policy & governance of mobile app development and deployment needs establishment
- Pilots need assistance in establishment and evaluation of IA policy – local NECs and G6 personnel also need assistance in understanding what is allowable as the policy is updated



WE'RE GOING TO TRY SOMETHING CALLED AGILE PROGRAMMING.



THAT MEANS NO MORE PLANNING AND NO MORE DOCUMENTATION. JUST START WRITING CODE AND COMPLAINING.



I'M GLAD IT HAS A NAME.

THAT WAS YOUR TRAINING.

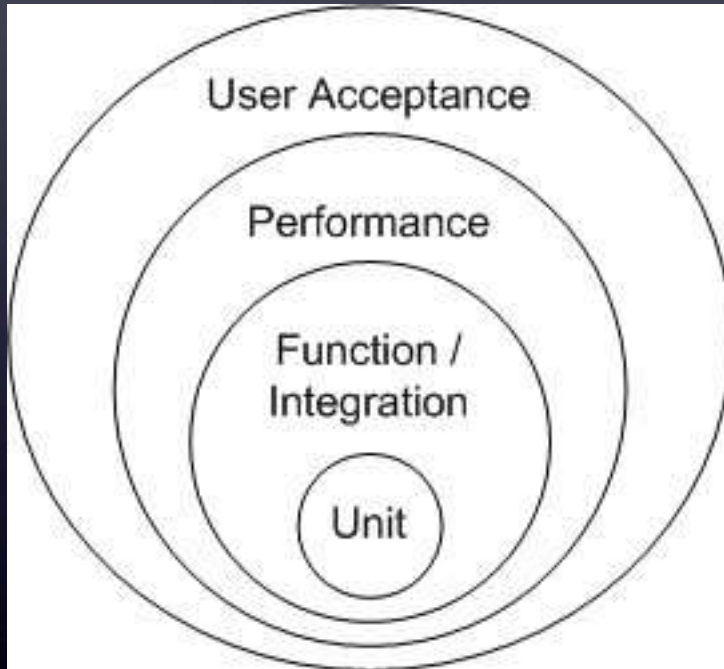


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Agile Development Manifesto

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

Agile Testing



- Every component (Class/Object) must have a unit test
- Test confirms output of Object against known good value
- Integration & Performance tests occur throughout development process
- Can use unit testing to ensure application security (DAR/DIT) and accreditation requirements



RESULT: Application doesn't require long accreditation and testing cycle following application development because testing is integrated into development process

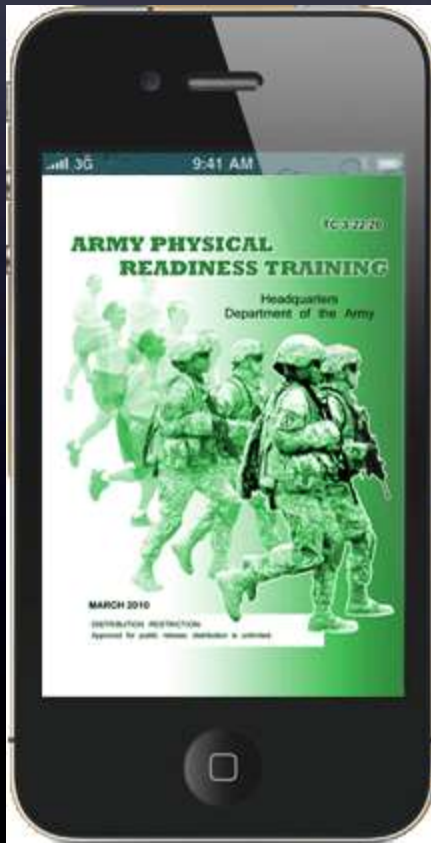
Way Ahead for SigCoE

- In partnership with CIO/G6 and PM-NES, the SigCoE can assist in expanding CSDA to include pilots of MDM systems with NEC support
- In partnership with CIO/G6, the SigCoE will establish and test Army Marketplace leveraging CSDA pilots as test bed
- In partnership with CIO/G6 and PM-NES, the SigCoE will expand Good Technologies and BAI Mobile CAC/PKI solutions for use in CSDA pilot application development
- Signal Center establishes “Mobile Development Community of Excellence” designed to:
 - Assist CSDA pilots by teaching, training, and mentoring programmers and content developers on mobile application development process
 - Establish code repository and templates to assist in content conversion
 - Establish policy and governance requirements in partnership with CIO/G6



Mobile Application Ecosystem

Mobile Applications Branch



LTC Gregory Motes

Fort Gordon, GA

Gregory.Motes@us.army.mil

