

DARPA 201: How Programs Are Developed

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DSO Deputy Director

Discover DSO Day

June 15, 2017





Defense Advanced Research Projects Agency – It's all about the programs

Programs Managers

Program development – where the ideas come from

Program development – how ideas mature into programs

Program development – how programs evolve



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DARPA's Mission



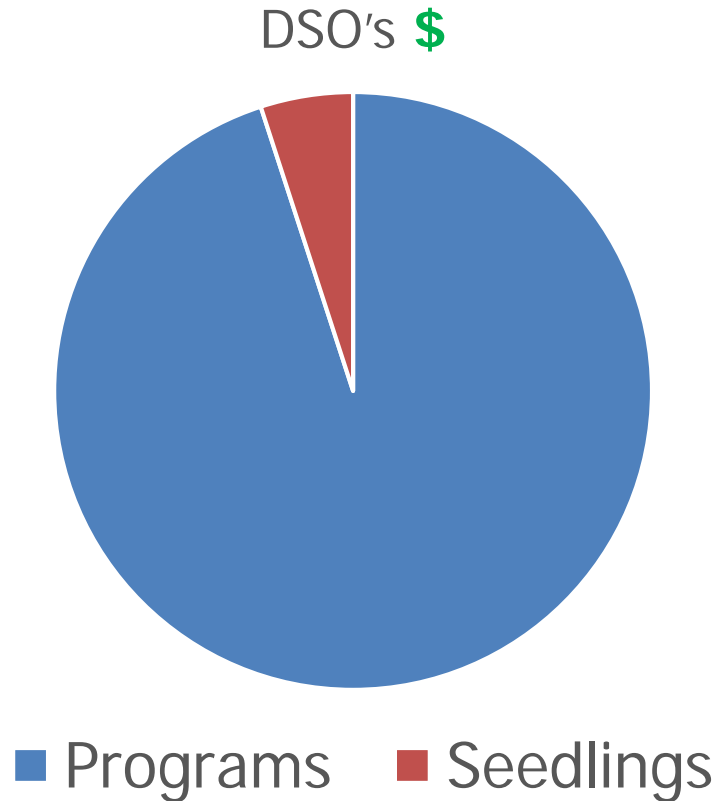
DARPA makes pivotal investments in breakthrough technologies for national security.



"To cast a javelin into the infinite spaces of the future."
-- Franz Liszt

Our culture encourages high-risk/high-reward investments

- ACCESS
- A-Teams
- ACDC
- A2P
- CASCADE
- EQUIPS
- X-Solids
- EXTREME
- FLA
- Fold Fx
- FunLoL
- Detect
- GS3
- Etc...



Improve the technical world fast....3-5 years.



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The Current Program Creators



Fariba Fahroo
Mathematics



Anne Fischer
Chemical Systems



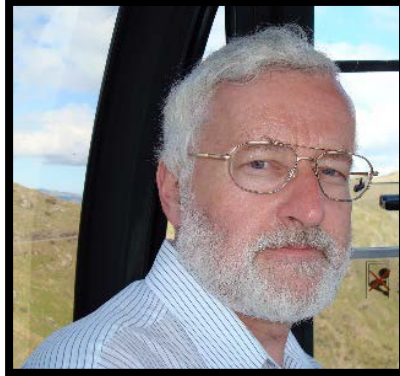
James Gimlett
Physics



Jan Vandenbrande
Math, Design, & Production Automation



John Paschkewitz
Systems, Design, & Materials



Michael Fiddy
Inverse Problems in Electromagnetics



John Main
Material System Innovation



Adam Russell
Behavioral/Social Sciences



Ale Lukaszew
Physics/Materials

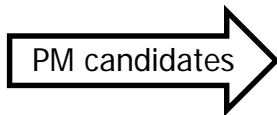


Predrag Milojkovic
Imaging & Optics



Vincent Tang
Applied Physics

DSO
OD/DD



DARPA
OD/DD



DSO's PMs



Fariba Fahroo
Mathematics



Anne Fischer
Chemical Systems



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Physics



Jan Vandenbrande
Math, Design, & Production Automation



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Systems, Design, & Materials



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Inverse Problems in Electromagnetics



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Material System Innovation



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Behavioral/Social Sciences



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Physics/Materials



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Essential Elements Yielding DARPA's Magic





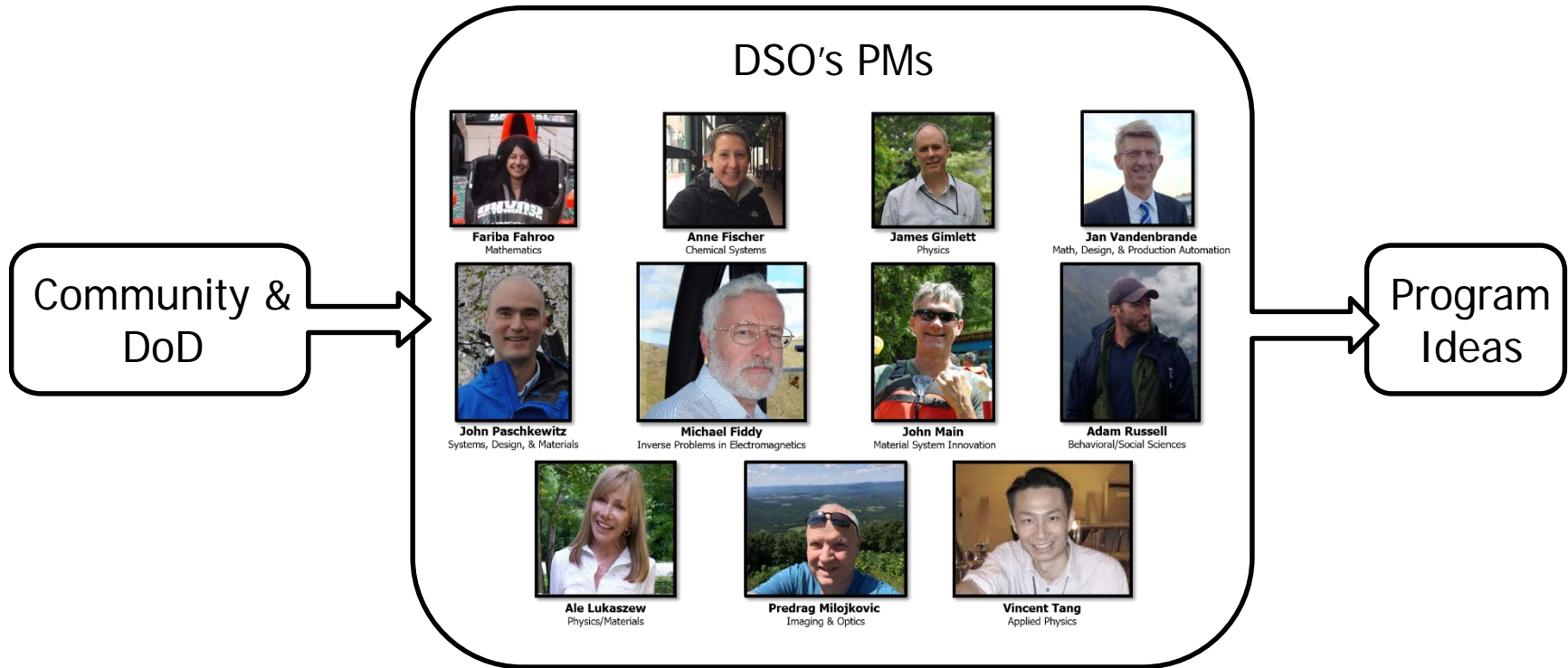
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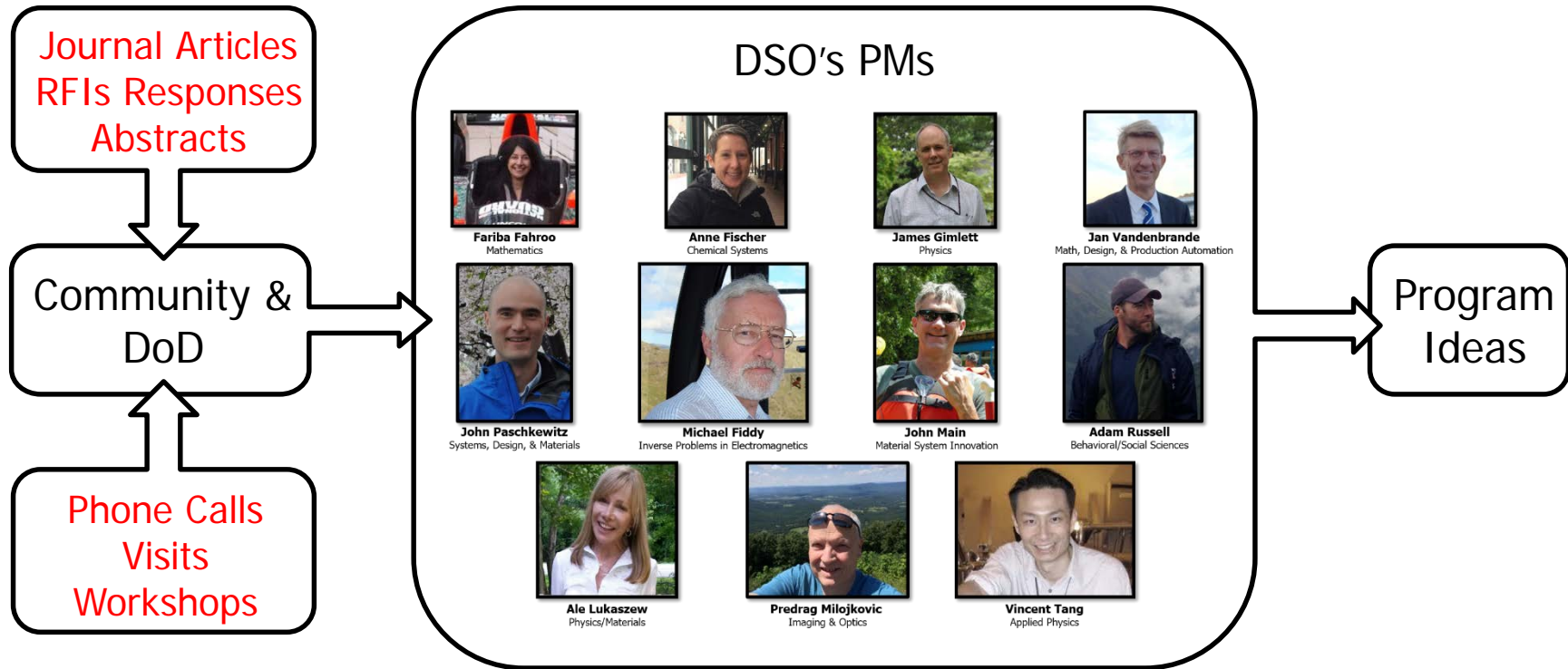
Programs Managers

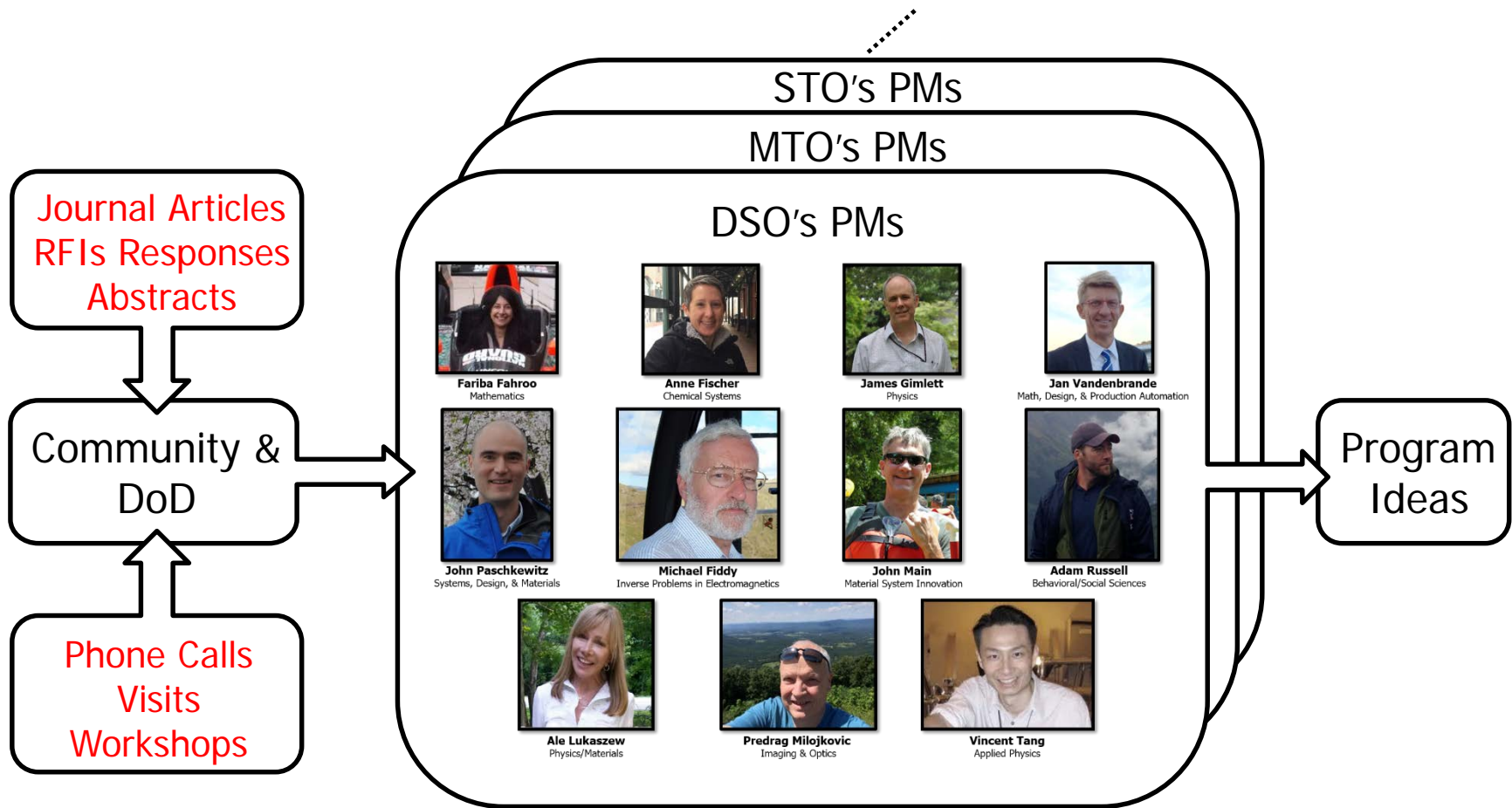
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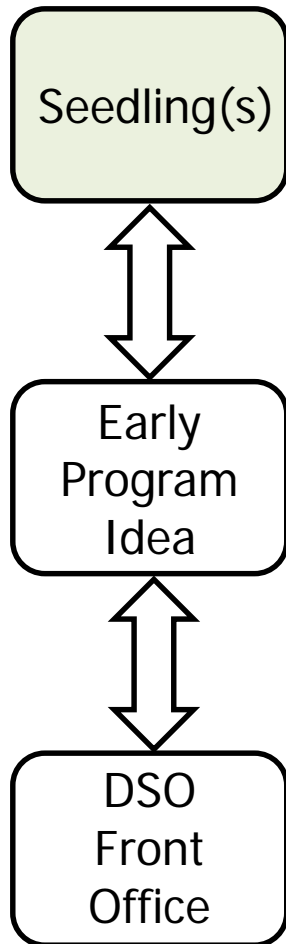
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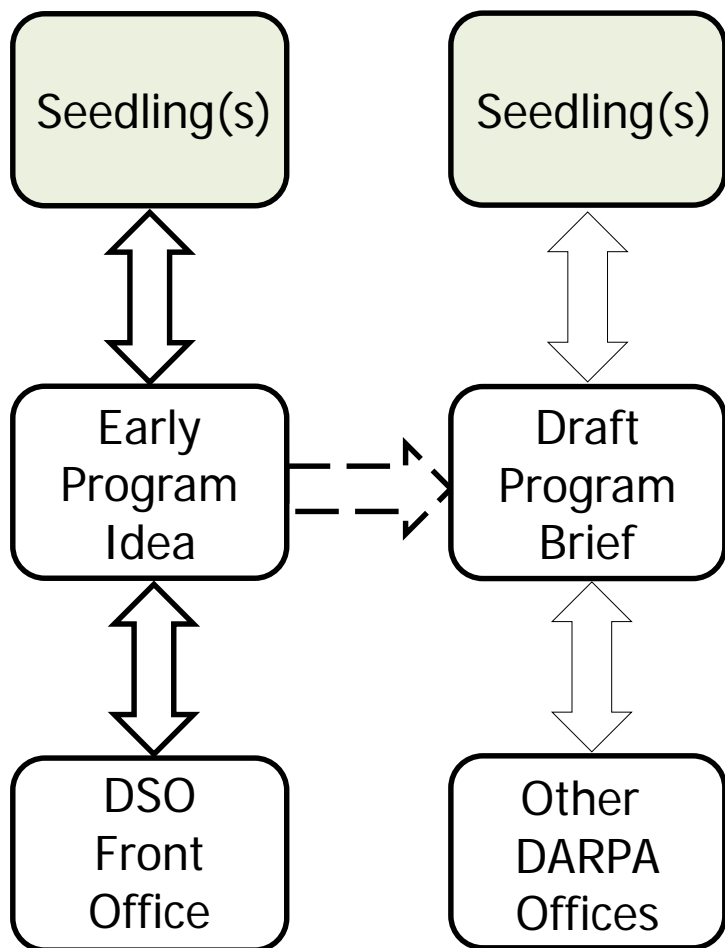
Programs Managers

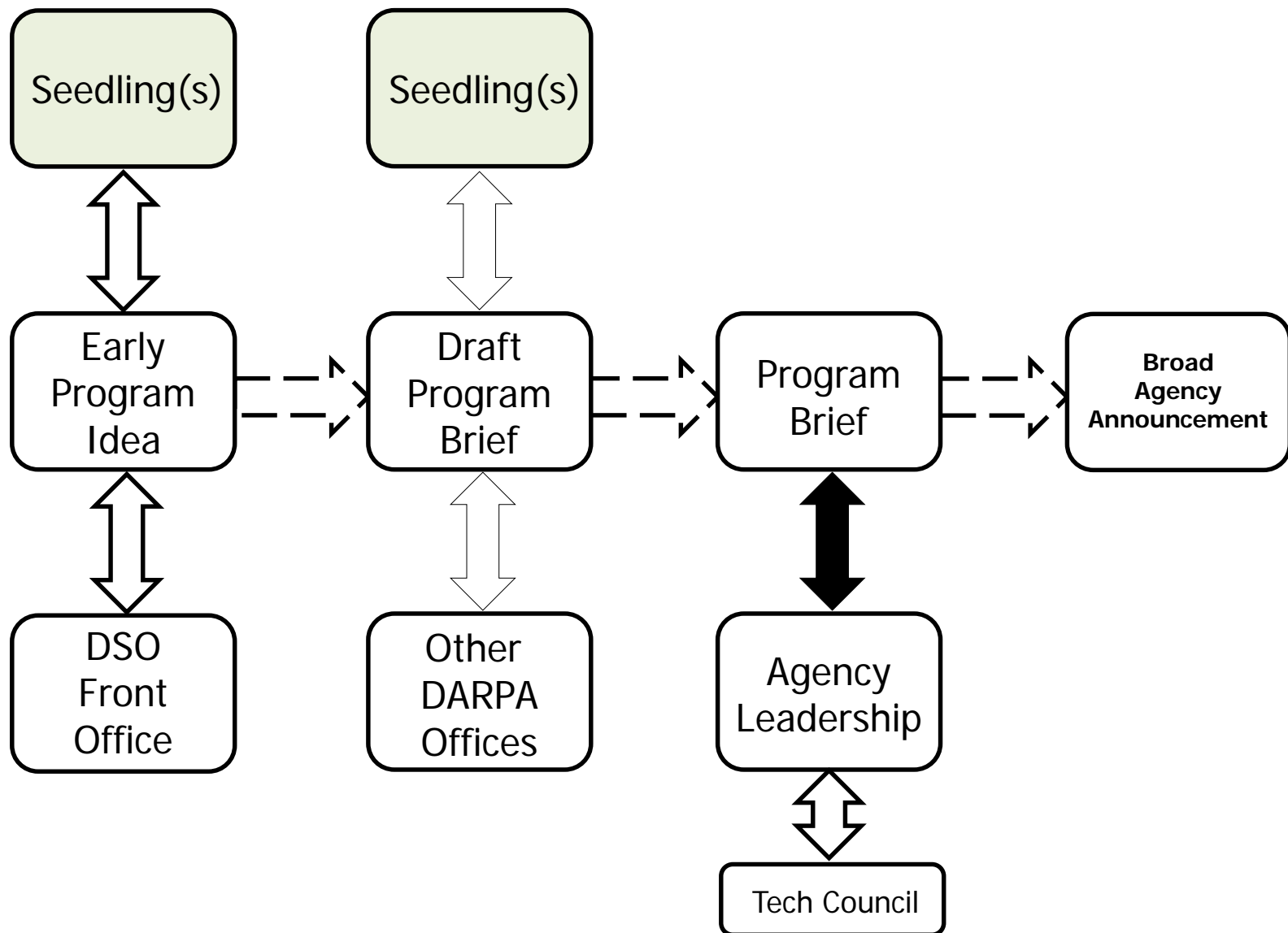
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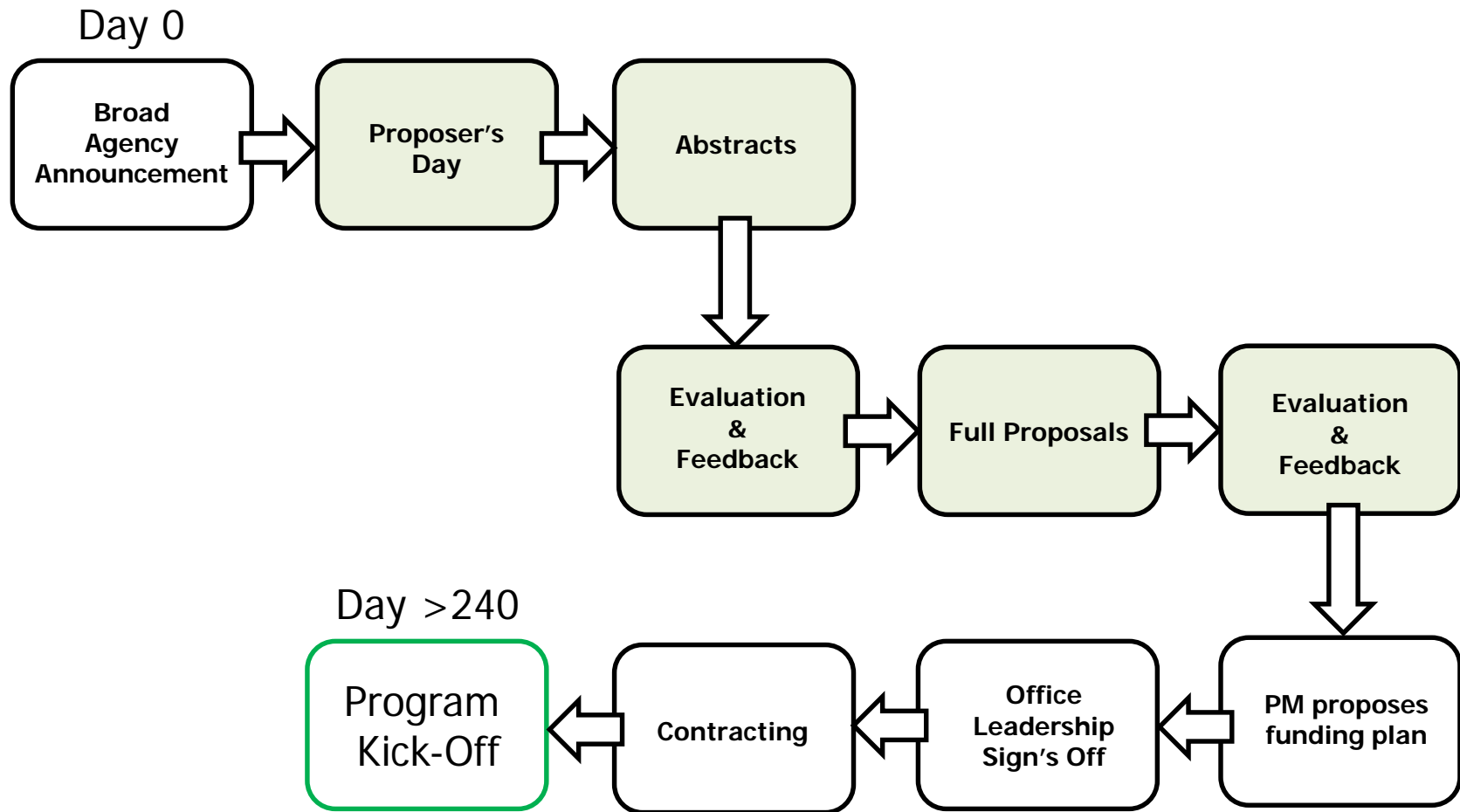
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Programs – The role players

Program development – where the ideas come from

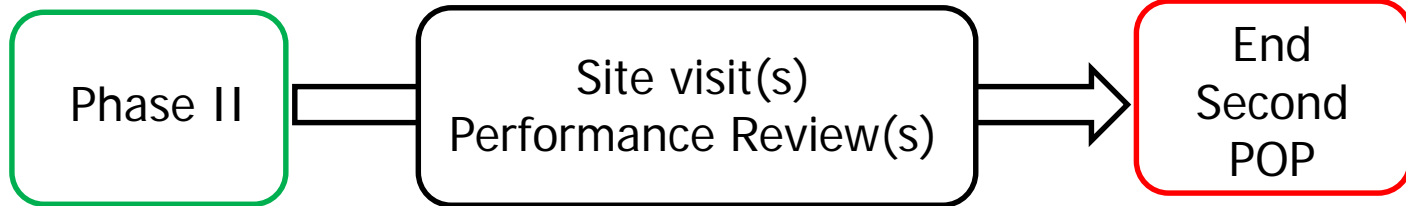
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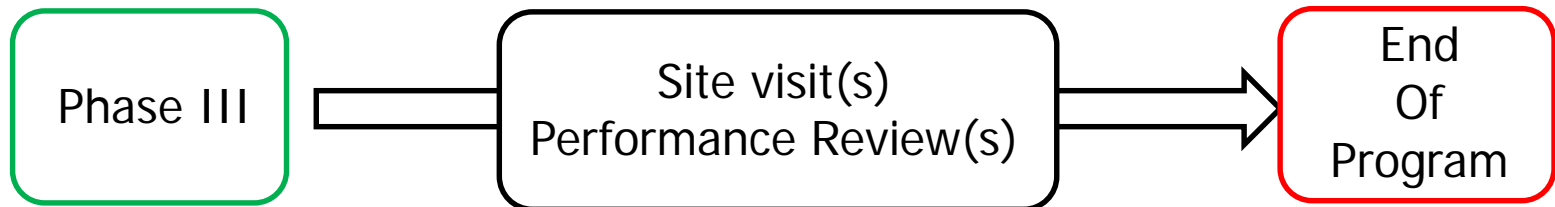
10 Performers (notional)



6 Performers



2 Performers



POP = Period of performance



Program Transition for DSO Programs

