### NA-MIC PI Overlap with NAC (P41) and BIRN

(support over 150K direct per year with leadership function)

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<th>Management</th>
<th>Algorithms</th>
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| **NA-MIC**<br>• National Scope<br>  • Less than 15% of direct funding stays at BWH<br>  • Demonstrated by number of investigators working at sites other than BWH<br>  • Commonly available equipment and resources<br>  • Develop infrastructure that is broadly deployable<br>  • Focus on tool and algorithm development (evolving Cores 1 and 2)<br>  • Platform for national effort to develop image computing software engineering framework | **BIRN**<br>• National scope<br>  • Multi-site collaborative clinical research<br>  • Focus on image calibration, high-speed networking, grid computing, shared databases and large-scale image repositories<br>  • Does not focus on algorithm development<br>  • Platform for NA-MIC | **NAC**<br>• Local scope<br>  • Local BWH expertise<br>  • Unique BWH environment and infrastructure<br>  • Custom software<br>  • Develop "pioneering solutions"
  • Focus on science questions (DBP collaboration)<br>  • Precursor for some NA-MIC development projects |
Research Interactions between NA-MIC, NAC, BIRN

**BIRN**
*Focus: infrastructure, data, data distribution*
e.g. Provides shared image databases and high speed network being utilized in NA-MIC & NAC

**NA-MIC**
*Focus: algorithms, engineering, general software tools*
e.g. Analysis of tensor and non-tensor diffusion data at three algorithm groups (UNC, Utah, MGH), hosted on BIRN servers from three clinical sites (Dartmouth, Harvard, UCI, U of Toronto)

**NAC**
*Focus: specific applications, custom software tools*
e.g. Focus on tensor analysis for pioneering diffusion sequences available only at BWH

**National Level**
- Data repositories and access
- Advances in medical image computing

**Local Level**
- Requirements, testing, tools