



PINEMAP

Aim 4 Team Science Report

October 2013

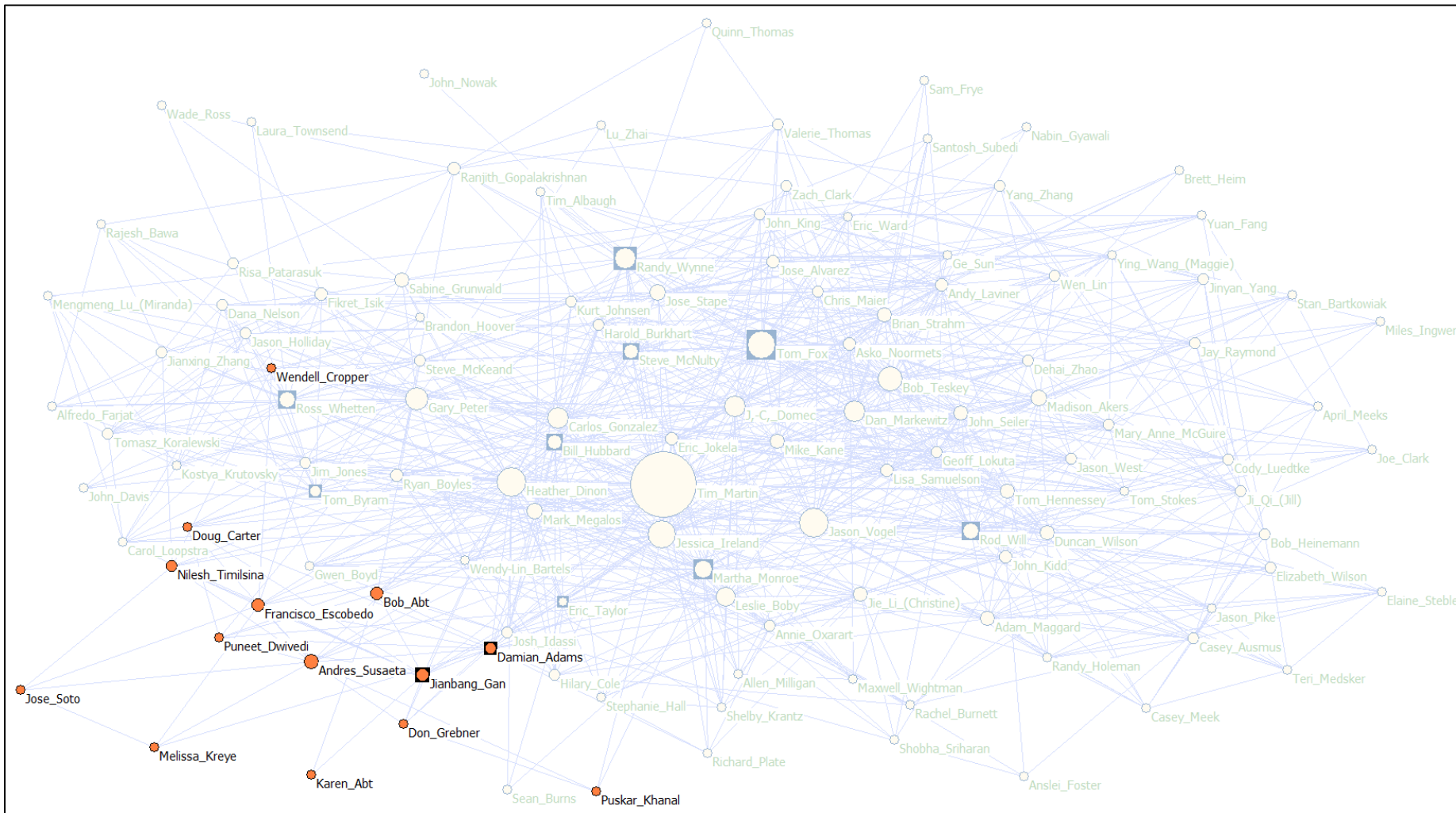
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This report is customized for Aim 4 to illustrate interactions among participants and network structure. This should be read with the complementary “Team Science in PINEMAP Report” and “PINEMAP Whole Network Team Science Report.”

Your feedback on the usefulness and limitations of this research is welcomed and important. Please send any questions and input to wendylin@ufl.edu.

WHOLE PINEMAP Network: Aim 4 highlighted

Visualization is based on strong ties (3 & 4). Node Size is betweenness centrality for the whole PINEMAP network. Leaders = boxes



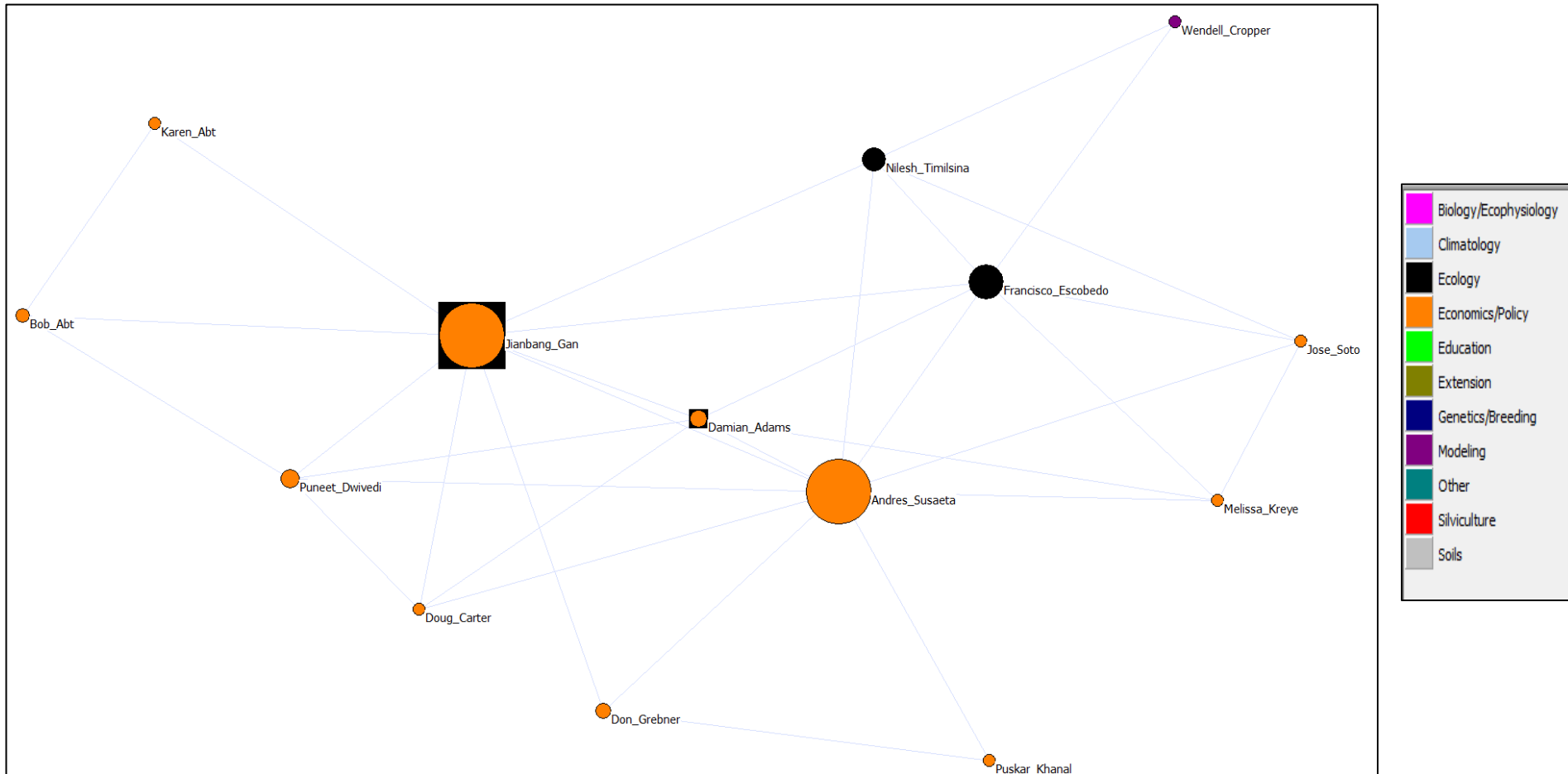
The Aim 4 sub-network is the same size as Aim 6, representing 11% of the whole PINEMAP network (14 members). Larger nodes would indicate key brokerage positions (i.e. individuals who likely link Aim 4 with the members of the whole PINEMAP network). However, for this Aim, we do not see much variation in node size and do not see any large nodes. Furthermore, several Aim 4 participants appear somewhat peripheral related to the whole PINEMAP network.

Reflection Questions

- Where are students located in this network?
- Are mechanisms being explored to facilitate changes in students' positions over time?

Aim 4 Sub-network: DISCIPLINES

Visualization based on strong ties (3 & 4). Node size indicates betweenness centrality for the Aim 4 sub-network. Node color = **DISCIPLINE**, Leaders = boxes.



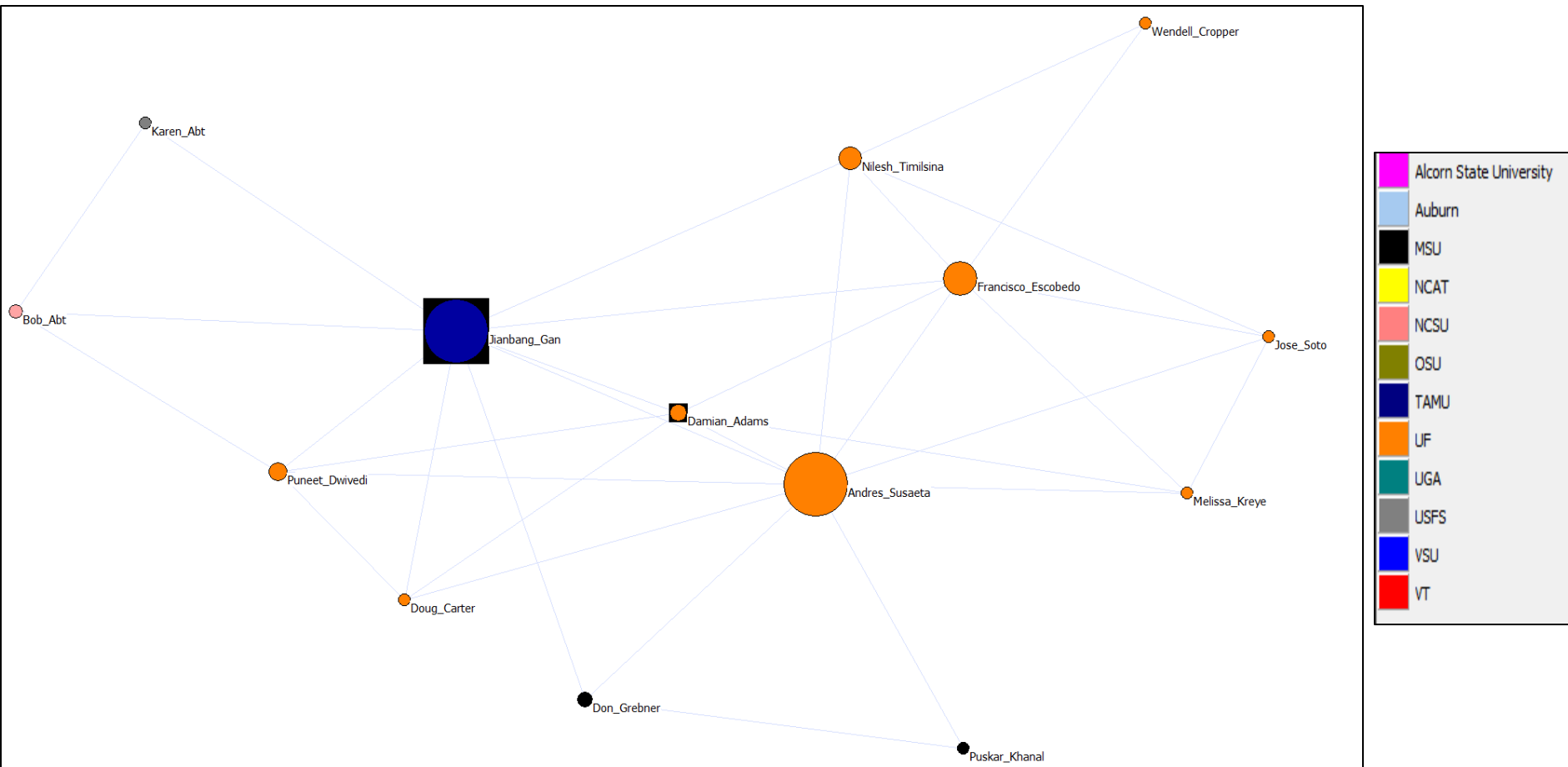
The Aim 4 sub-network is dominated by economics/policy expertise. Ecology and modeling are also represented. Larger nodes represent key brokerage positions. Individuals in these positions likely facilitate strong interactions among members WITHIN Aim 4.

Reflection Questions

- To achieve Aim 4 goals, are disciplines appropriately integrated?
- Do you notice differences among Aim 4 brokers in cross-Aim interactions (previous network diagram) vs. within-Aim interactions (this diagram)?

Aim 4 Sub-network: INSTITUTIONS

Visualization based on strong ties (3 & 4). Node size indicates betweenness centrality for the Aim 4 sub-network. Node color = **INSTITUTION**, Leaders = boxes



The Aim 4 sub-network is dominated by UF. TAMU, MSU, and NCSU are also represented

Reflection Question

- How well is Aim 4 integrating with other universities not represented in this group?

Aim 4 Sub-network visualized differently

Figure 1 is based on strong ties (3&4).
Figure 2 also includes communication (2).
Node size = betweenness centrality for the whole PINEMAP network.

Reflection Questions

- The Aim 4 network displays differently when we consider different types of interactions.
- Notice the greater number of ties when we include communication.
- Do you notice changes in the nodes that occupy brokerage positions? Remember, larger nodes are facilitating interactions across the whole PINEMAP network. Collaboration and communication may require different types of brokers...

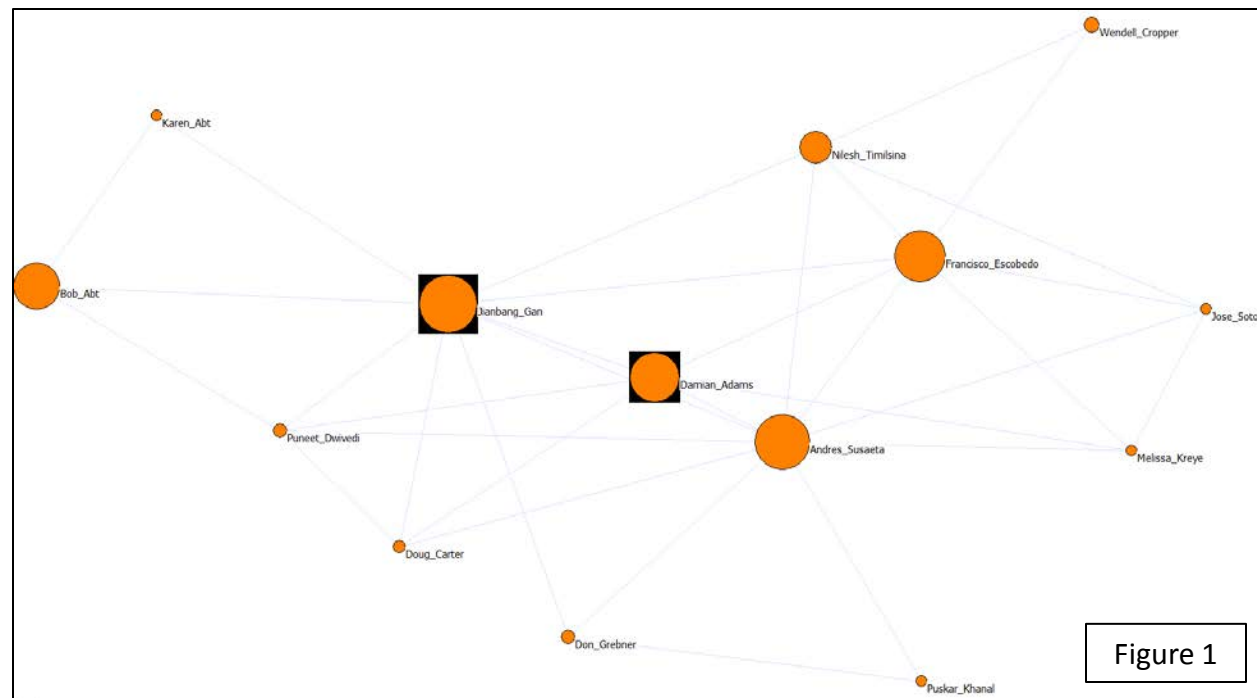


Figure 1

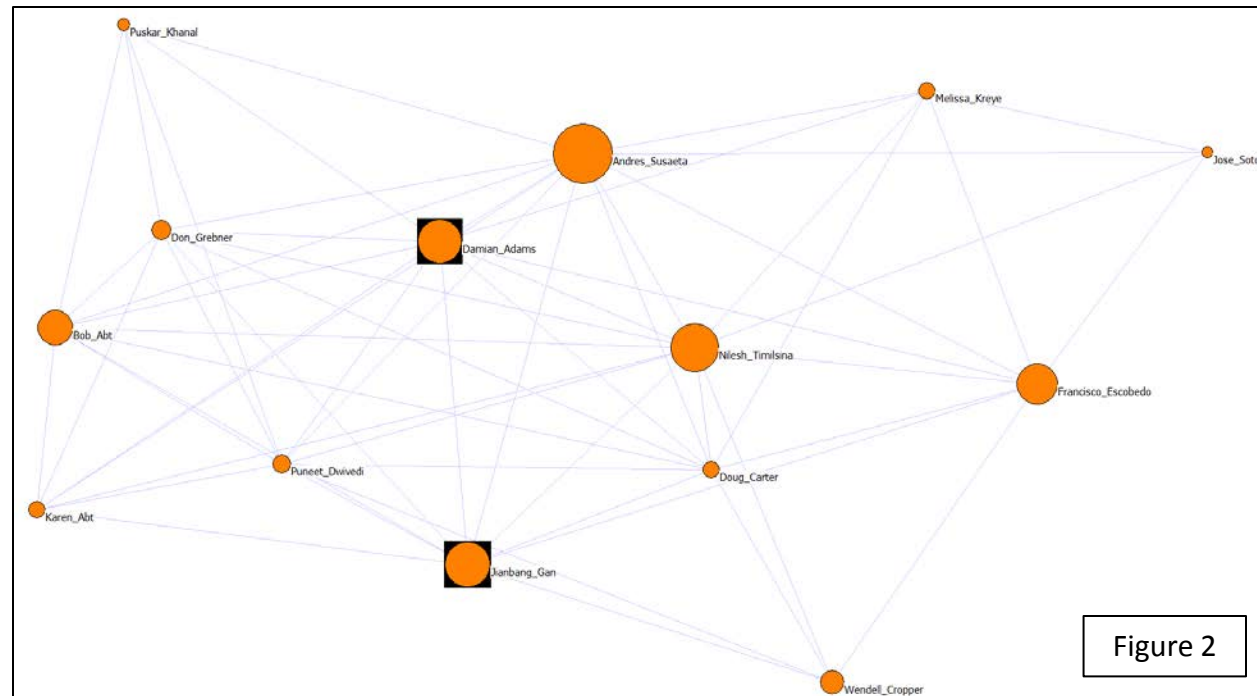
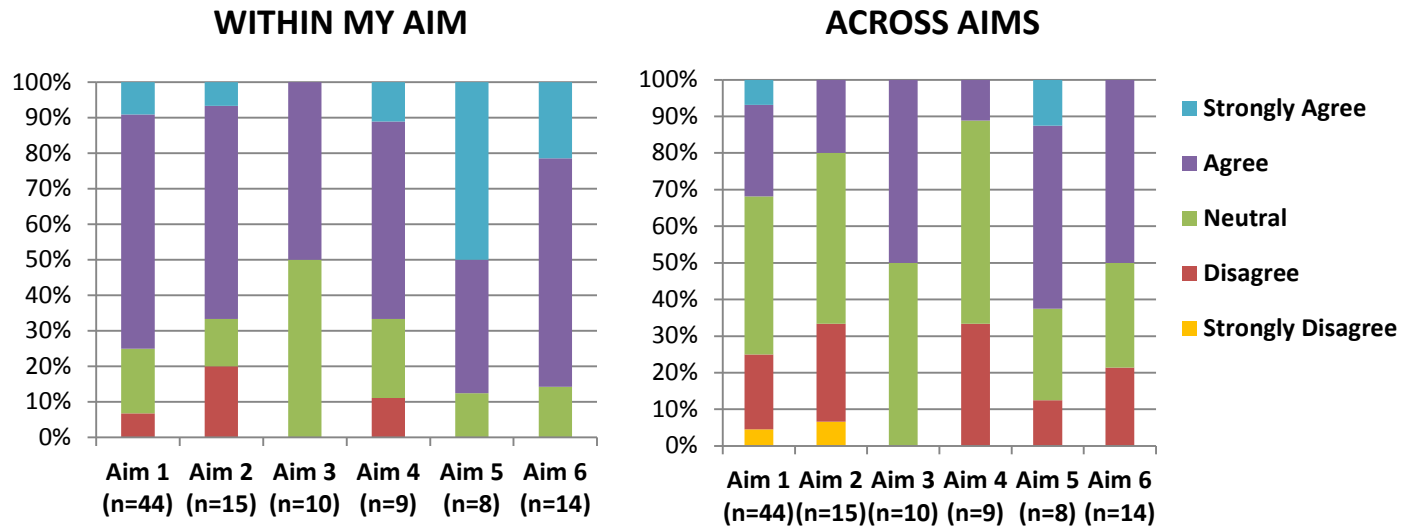


Figure 2

Communication and Integration

In the April 2013 survey, we asked respondents to rate their level of agreement with the statements “Communication within my Aim is working well” and “Communication across Aims is working well.” Responses to these questions are summarized in the graphs below. In addition, during an activity at the annual meeting, we asked Aim groups to brainstorm and identify platforms that promote integration among Aim 4 and other Aims. The platforms identified by Aim 4 are listed below.



PLATFORMS identified at the 2012 annual meeting for how Aim 4 integrates with others in PINEMAP

- Data link/share (Aim 1, 2, 3)
- Output dissemination (Aim 5, 6)

Reflection Questions

- It appears that within Aim 4, some members do not think that communication is working well, especially across Aims.
- Does Aim 4 need to improve communication pathways to reach other Aims?
- Are mechanisms in place to facilitate on-going interaction within the integration platforms that have been identified?