



# Using Network Analysis to Increase the Impact of Center Grant and Team Science Proposals

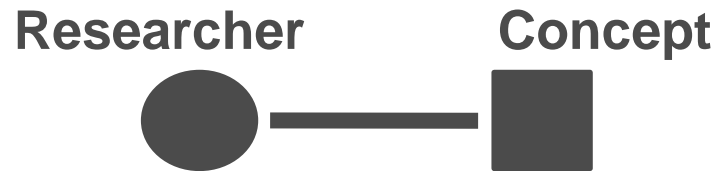
Jeff Horon – NORDP Conference – May 2012

# Identification of Topic Areas and Potential Collaborators

Employing network analysis, you can connect **people** to **things/ideas**...

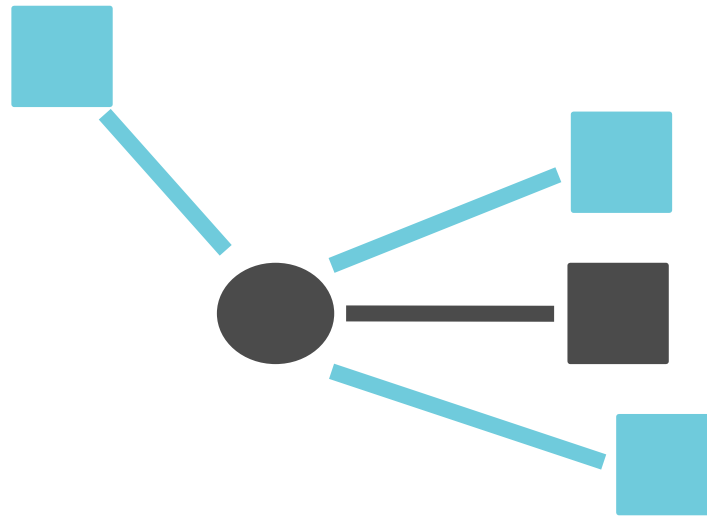


So, let's begin by connecting:



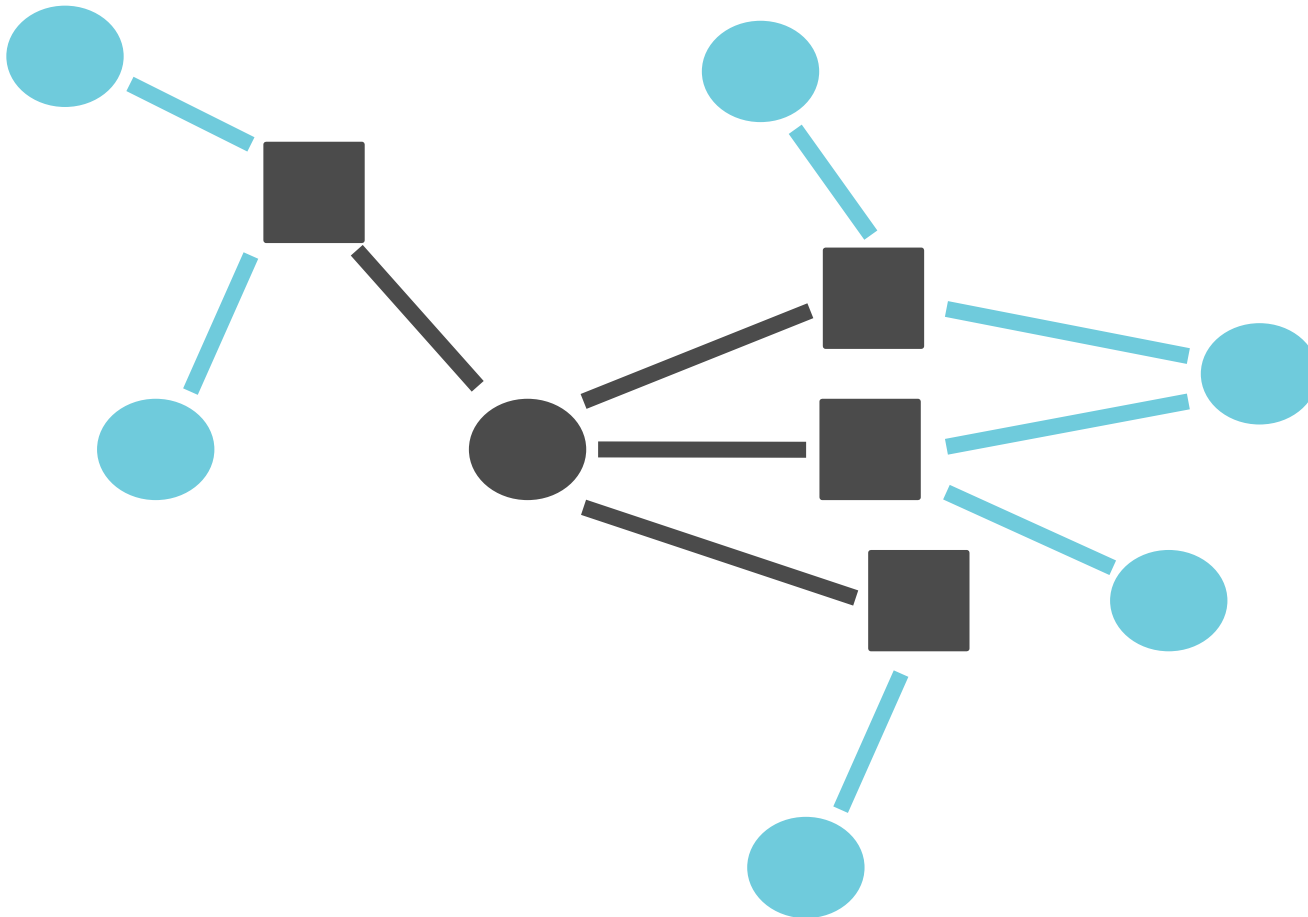
# Identification of Topic Areas and Potential Collaborators

Researchers work with multiple concepts, so let's add those:



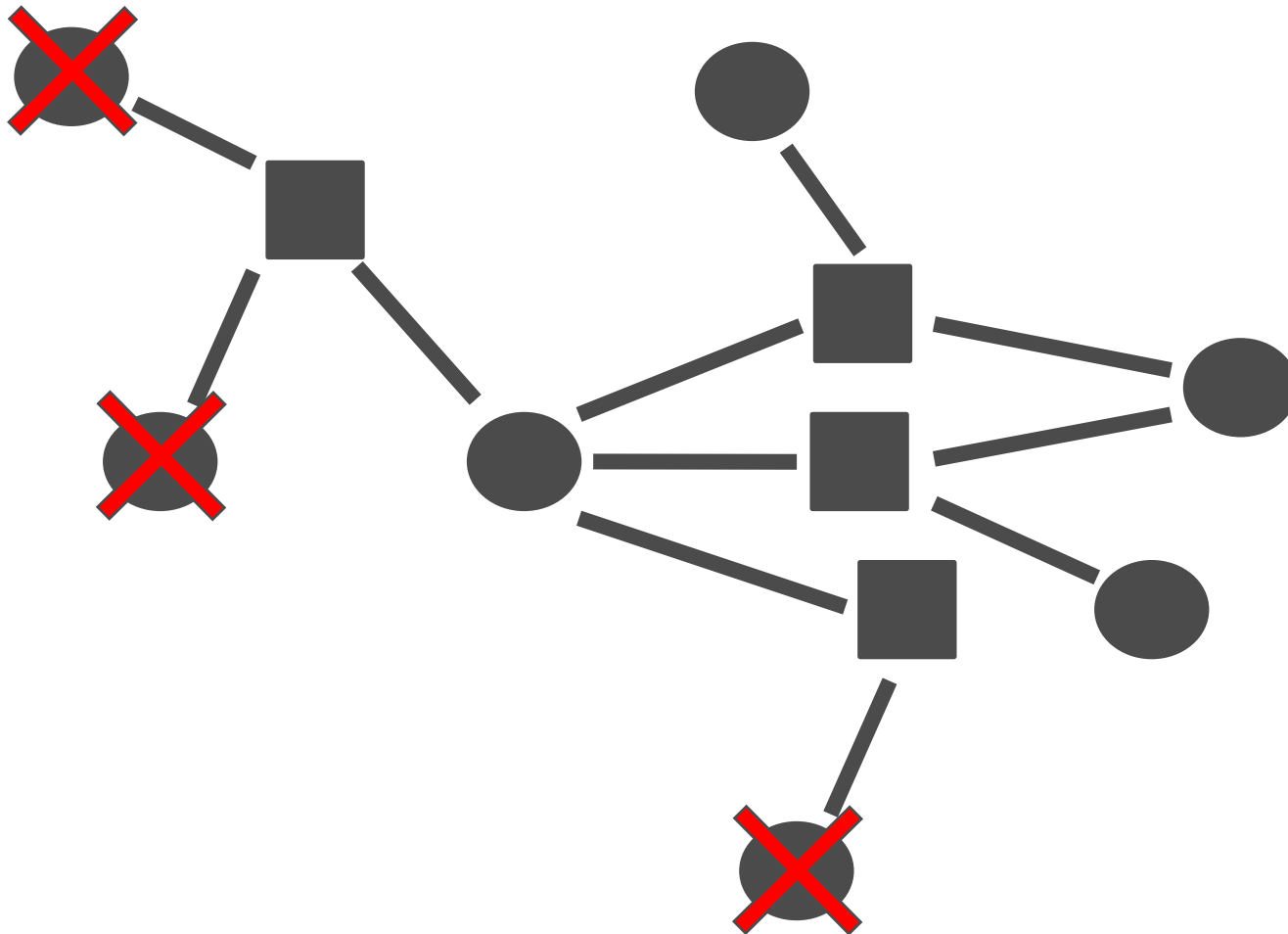
# Identification of Topic Areas and Potential Collaborators

And let's add other researchers. The network is self-organizing.



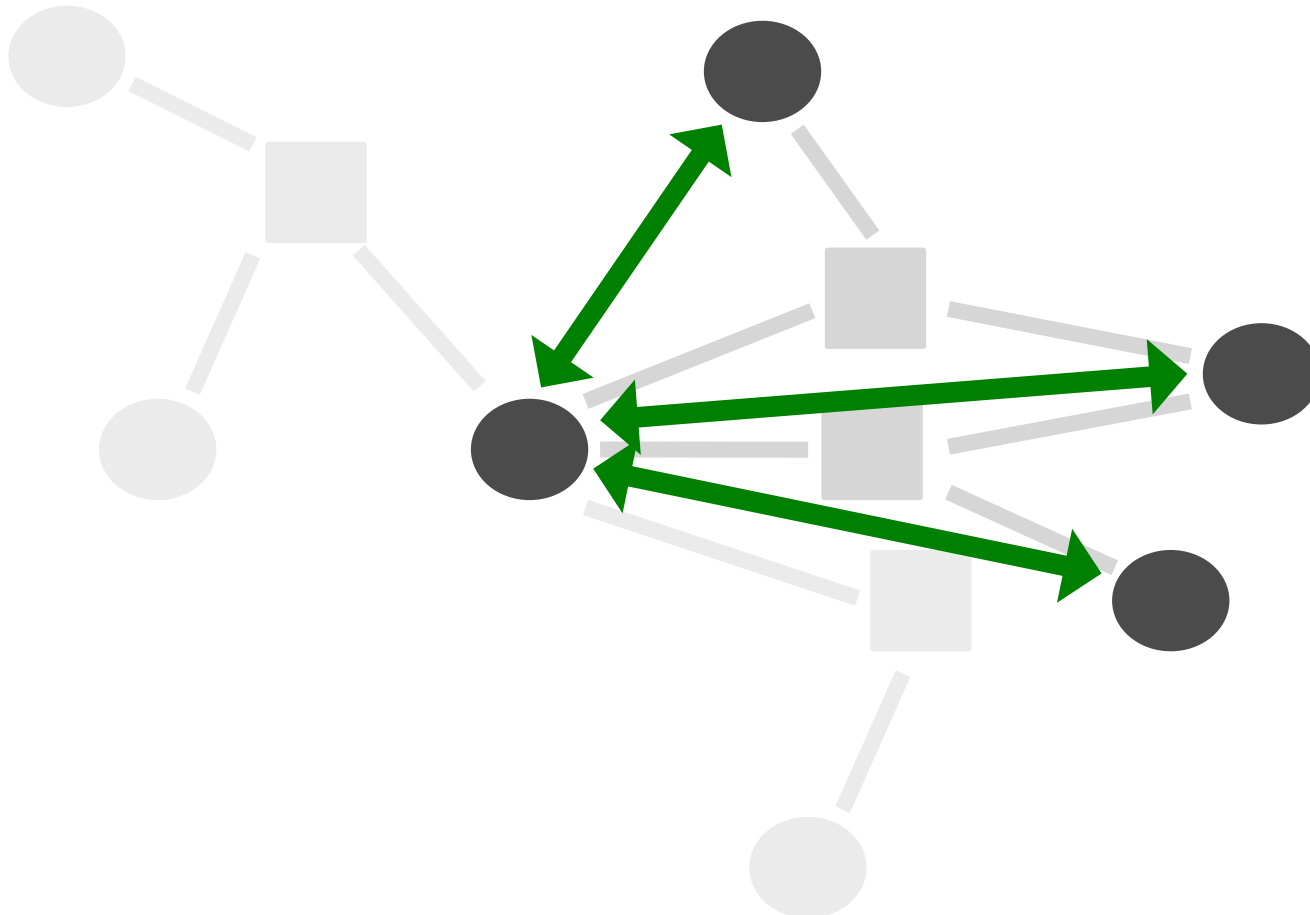
# Identification of Topic Areas and Potential Collaborators

Then we eliminate existing collaborations:



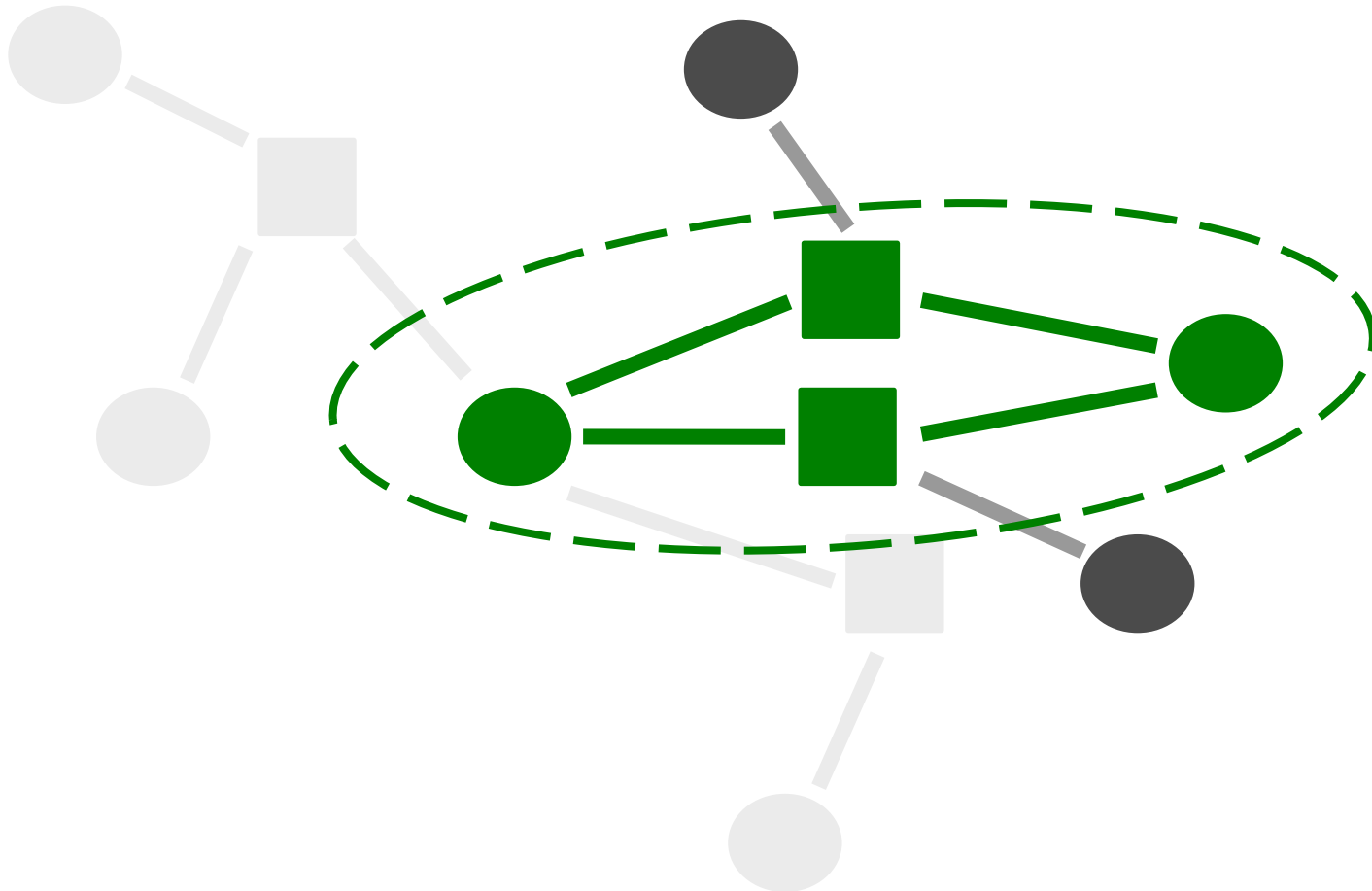
# Identification of Topic Areas and Potential Collaborators

Remaining researcher-concept-researcher relationships are potential collaborations...



# Identification of Topic Areas and Potential Collaborators

.... with suggested topics!



# Research Team Selection

Team selection works like identification of potential collaborations, except that you already know the topic area.

Best practice: Iterate search terms for concepts to arrive at more inclusive results and fewer false positives

e.g. for metabolomics/nutrition:

-metabol\* (metabolic, metabolism, metabolomics)

-calori\* (calorie, calories, caloric)

-vitamin\* (vitamin A, vitamin B)

(etc., etc.)