Moving forward from here...

Output of this workshop will be a “white paper”
(or conference summary?)
Journal?

Outline and a some starter text in Overleaf
... everyone here (and others who could not attend)
is welcome to contribute.

Please email me/Rafael/other SOC members
for edit access (“opt-in”)

We will be pestering many of you (“opt-in-encouraged”)

Comments also welcome

- where we are
- sensitivities for short (1-2 year) and longer (10-20 year) term...exactly how do we get more science by combining neutrino information?
- realistic timelines for work

We have a lot of work to do: working groups

Physics
- model databases & detector response
- focused on alert [connect to “SNARE”]

Pointing
- evaluate realistic sensitivities
- decide on strategy, staging

Presupernova
- evaluate realistic sensitivities
- decide on strategy, develop protocol

Nuts&Bolts
- write new code for data combination/processing
- use existing new infrastructure for alerts

Data sharing
- develop protocols/MOUs, ...

Education/Outreach
- amateur connection
- other outreach

short
and long
term
strategies
... eventually
SNEWS 2.1,
3.0, ...

Timescales for Next Steps

By end of summer:

- white paper: realistic plan for the work
- formation of working groups

~1 year: next meeting : in conjunction with Nu2020?

- a formal collaboration with governance?

Yearly meetings

A separate, but connected initiative... has been dormant

SNARE (SuperNova Advance Readiness Exercise)

- theorists prepare
  model fluxes with
  physics/astrophysics
  "treasure" hidden inside
  (choice of MO, collective
  oscillations, SASI,
  assumed direction, etc.)
- experimentalists simulate
  signals in their detectors
  and analyze the data
- **can we find the treasure?**
- could include GW observatories

- Build on SNEWS and GWnu connections
- Could be ongoing series of events
- Mailing list `https://lists.phy.duke.edu/mailman/listinfo/snare`
  and Slack workspace `snaresupernova.slack.com`

(Acronym credit: Chuck, Clarence, Stan, KS)