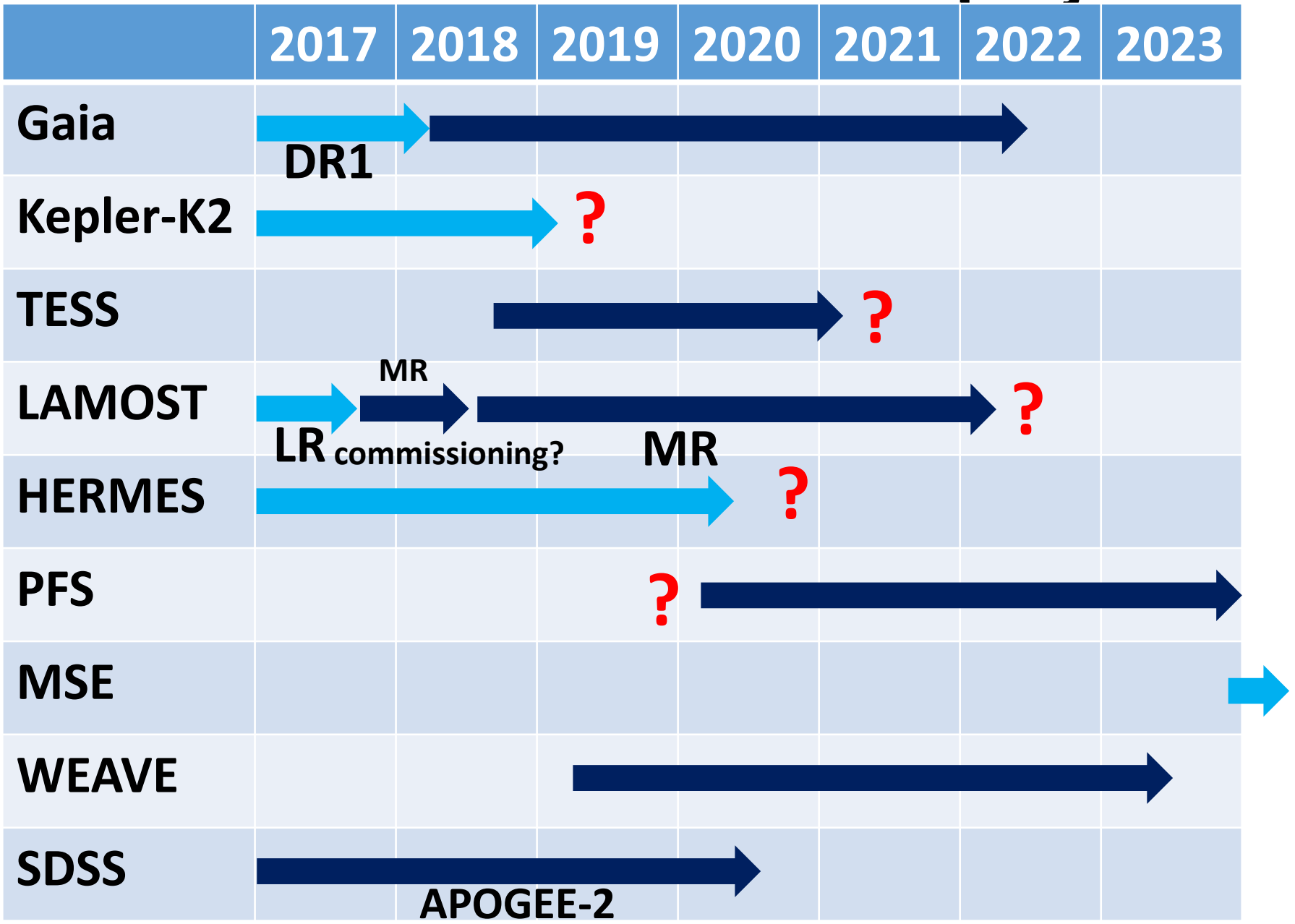
GA/Stars

W. Aoki, H-N. Lee, H. Yan, A. McConnachie,
P. Cote, M. Ishigaki, T. Matsuno,
J. Bland-Hawthorn, S. Sharma

Timeline of instruments and projects



Which elements for chemical tagging?

…Having impact on choices of wavelength range and spectral resolution of new instruments.

- O, Mg: SN II (M≧20Msun)
- Si, Ca, Ti, Cr (even-Z): SN II(not only massive ones)
- Mn, Co: SN II, metallicity dependent
- explosion energy dependent
- Eu: r-process. low-mass SN II?
- Y, Zr, Ba, La: s-process (+r-process at low metallicity)
- Fe, Ni: “metallicity”. SN Ia contribution
  determination of atmospheric parameters
- Sc, Y

Define some model cases of collaborations (both science and instrumentation)

- **Ongoing collaborations:**

  LAMOST/Subaru-HDS for very metal-poor stars

- **Future follow-up**

  Spectroscopic (HR) follow-up of objects from other surveys (e.g. PRISTINE, U-band imaging)

- **Instrumentation**

  Prototype of HR spectrometer for MSE on Subaru

  (also prototype of Subaru/PFS-HR)

Feedback to Subaru instrumentation and operation from scientific perspectives?

- **Faster response for follow-up?**

Launch science/instrumentation working group in each category for further discussion/contact/mini-workshop?

- **Discussion items:**

  -key elements for chemical tagging etc.

  -connecting spectrograph, spectral data …

  -proposal for Subaru and other telescopes?

  -changing students

- **Meetings, email connection …**

  joining in meetings on PFS?