



2017 Users' Meeting

Realizing the Dream

C. Veillet





Realizing the Dream

C. Veillet

Looking back

What about our mission?

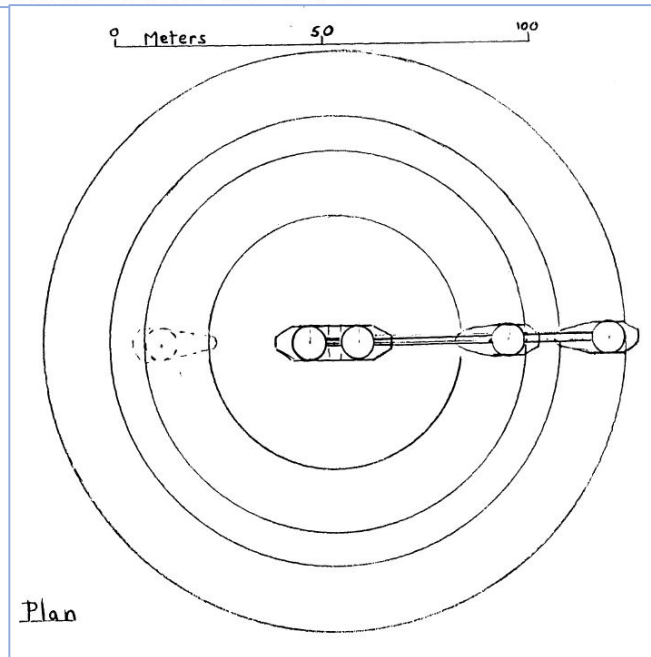
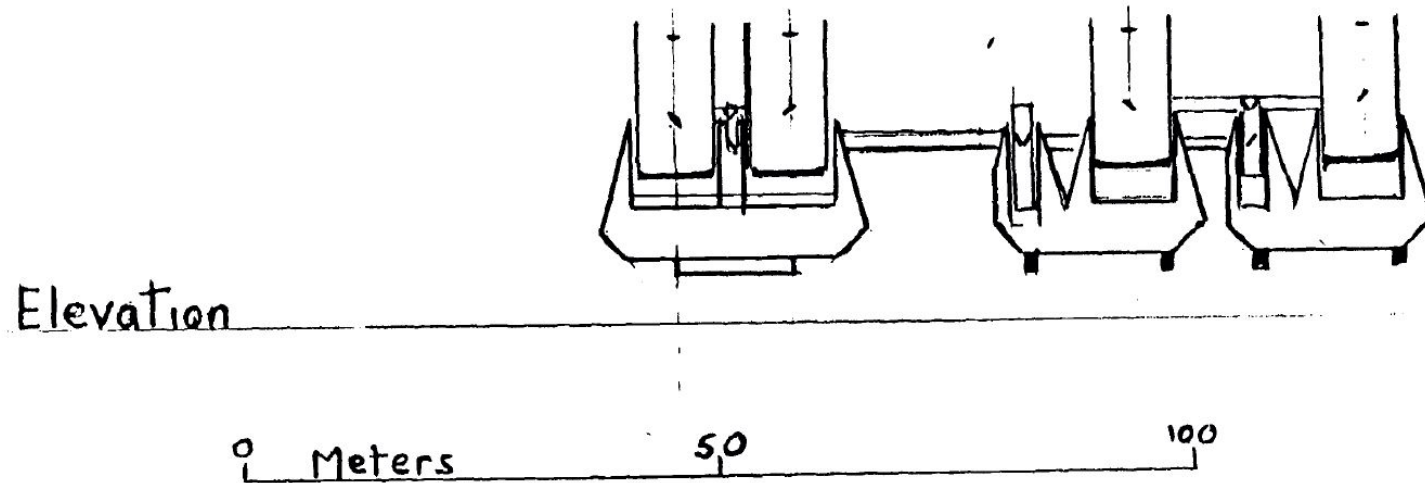
A tiny bit of science

Roadmap

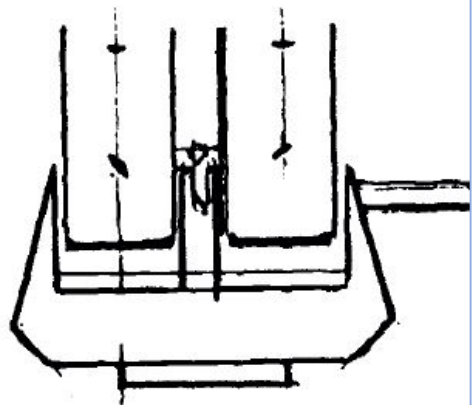
Closing



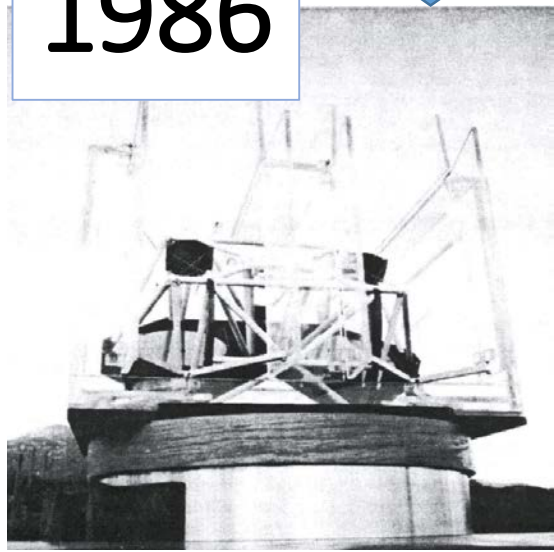
Versatile Array (from Woolf et al., 1983)



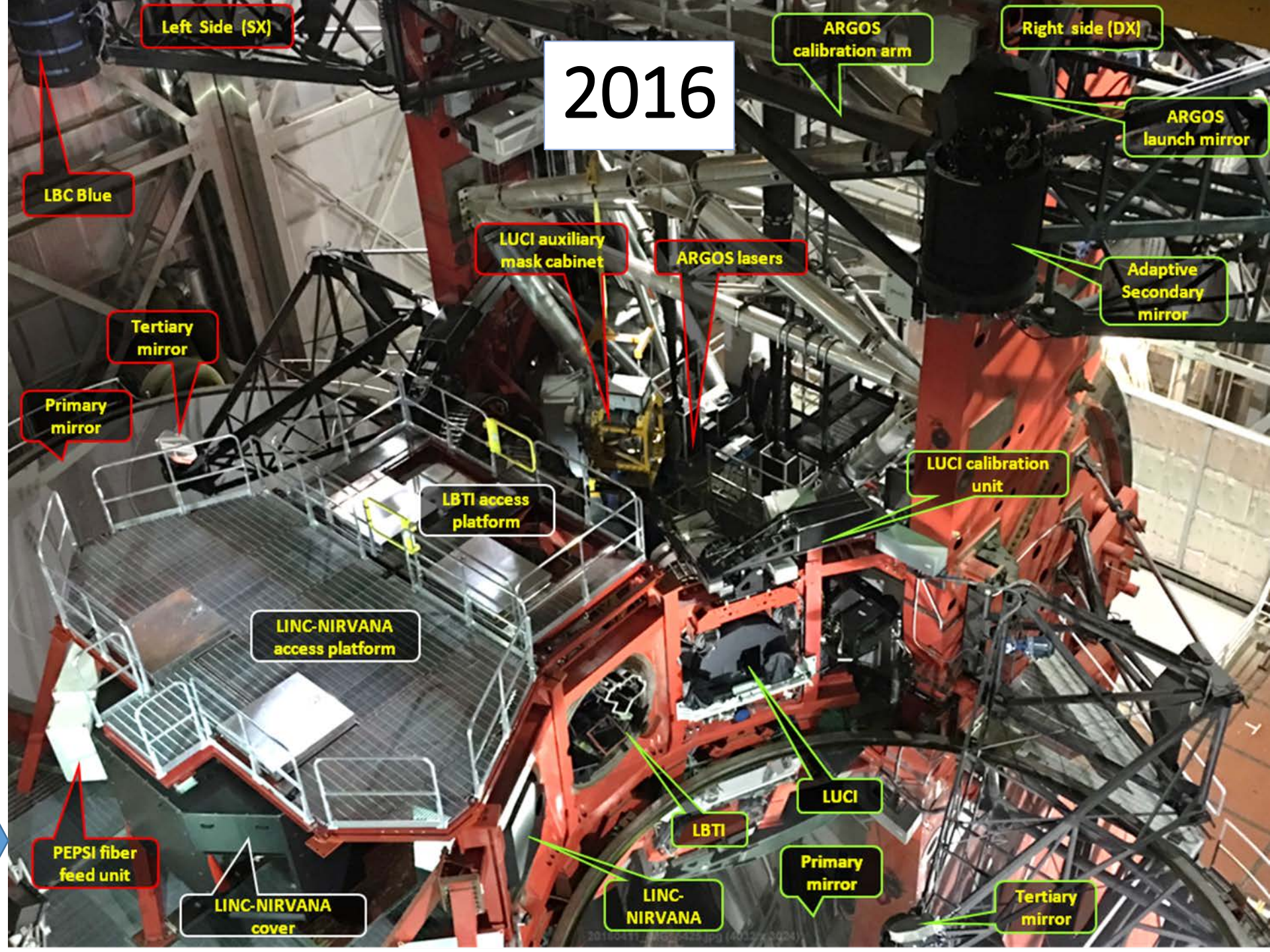
1983

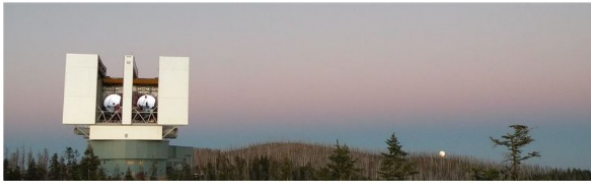


1986



2016

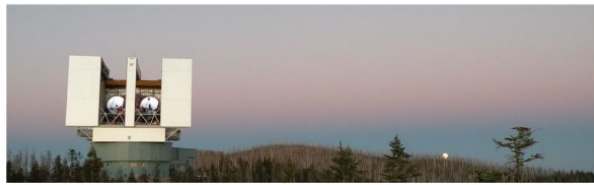




LBT2020

A six-year development plan for LBTO [2014-2019]

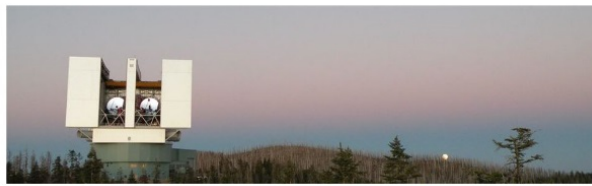
“As the first of the ELTs and one of the leading 8-m class telescopes, LBTO must offer, as efficiently as possible, state-of-the art instruments delivering high-quality data to the users of the observatory, thus enabling excellent science at the forefront of astronomy”



LBT2020

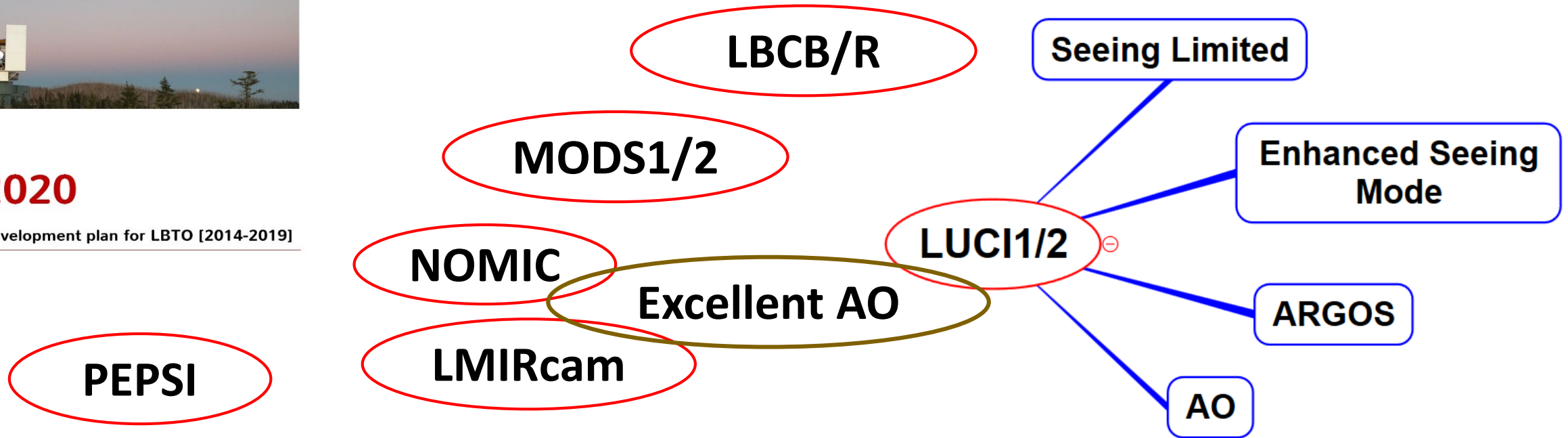
A six-year development plan for LBTO [2014-2019]

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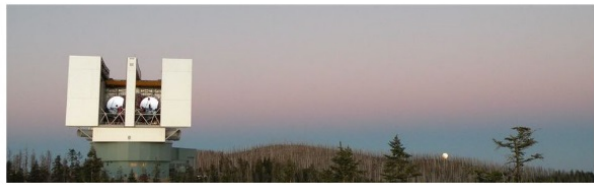


LBT2020

A six-year development plan for LBTO [2014-2019]



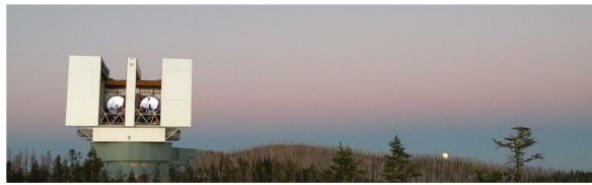
“As the first of the ELTs and one of the **leading 8-m class** telescopes, LBTO must offer, as efficiently as possible, **state-of-the art instruments** delivering high-quality data to the users of the observatory, thus enabling excellent science at the forefront of astronomy”



LBT2020

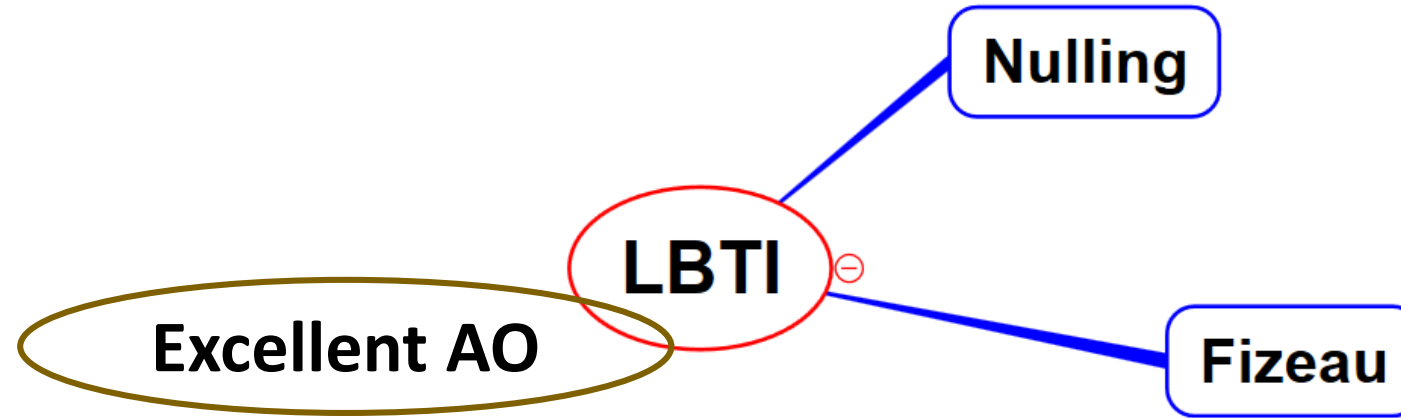
A six-year development plan for LBT [2014-2019]

“As the first of the ELTs and one of the leading 8-m class telescopes, LBT must offer, as efficiently as possible, state-of-the art instruments delivering high-quality data to the users of the observatory, thus enabling excellent science at the forefront of astronomy”

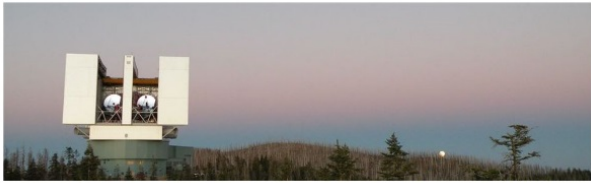


LBT2020

A six-year development plan for LBTO [2014-2019]



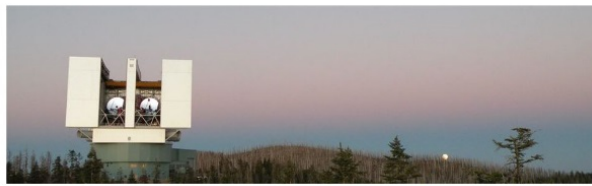
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LBT2020

A six-year development plan for LBTO [2014-2019]

“As the first of the ELTs and one of the leading 8-m class telescopes, LBTO must offer, as efficiently as possible state-of-the art instruments delivering high-quality data to the users of the observatory, thus enabling excellent science at the forefront of astronomy”



LBT2020

A six-year development plan for LBT [2014-2019]

Binocular all the time

+

Telescope, Instruments,
AO, ARGOS all operational

+

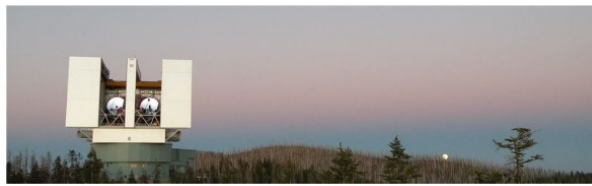
LBT-wide Queue

Not too good a site...



“As the first of the ELTs and one of the leading 8-m class telescopes, LBT must offer, as efficiently as possible state-of-the art instruments delivering high-quality data to the users of the observatory, thus enabling excellent science at the forefront of astronomy”

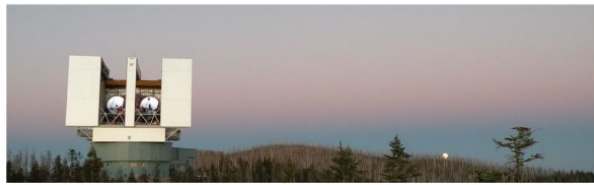




LBT2020

A six-year development plan for LBTO [2014-2019]

“As the first of the ELTs and one of the leading 8-m class telescopes, LBTO must offer, as efficiently as possible state-of-the art instruments delivering high-quality data to the users of the observatory, thus enabling excellent science at the forefront of astronomy”

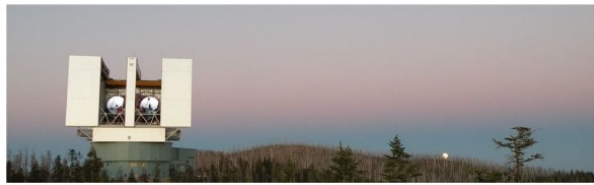


LBT2020

A six-year development plan for LBT0 [2014-2019]

**~35 science talks and
posters**

“As the first of the ELTs and one of the leading 8-m class telescopes, LBT0 must offer, as efficiently as possible, state-of-the art instruments delivering high-quality data to the users of the observatory, thus enabling excellent science at the forefront of astronomy”



LBT2020

A six-year development plan for LBT [2014-2019]

**~35 science talks and
posters**

Three recent media hits...

**“As the first of the ELTs and one of the leading 8-m class
telescopes, LBT must offer, as efficiently as possible,
state-of-the art instruments delivering high-quality data
to the users of the observatory, thus enabling excellent
science at the forefront of astronomy”**

The mystery of the largest lava lake in the solar system solved

A giant telescope has provided important information and images of Io, Jupiter's moon.



Greg Sousa | Expert in News | [FOLLOW](#)

Curated by Evan Morgan | Published on: 15 May 2017



Lava discovered on Jupiter's moon Io - eontarionow.com



In a study published in the multidisciplinary scientific journal Nature, researchers revealed that they solved the mystery of **#Loki Patera**. This is the largest **#lava lake** in the solar system, and it is located on Jupiter's moon **#Io**.



Io and its lava lake

Out of all the planets and moons in the solar system, **Io** is the most

Jun 14, 2017 | Updated: 07:58 AM EDT

The Science Times

TECH & INNOVATION

DESIGN

NANOTECHNOLOGY

ENERGY

POLICY

SPACE

PHYSICS & MATH

CHEMISTRY



Black Hole Quietly Born From Collapsing Massive Star That Skipped Its Supernova Stage

N. Gutierrez May 26, 2017 12:50 PM EDT

[Facebook](#)

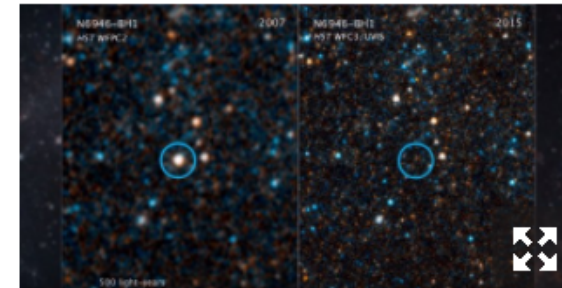
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(Photo : NASA Goddard/YouTube) A dying star 25 times the size of the Earth's sun was witnessed to leave a black hole after its death.

Astronomers were reported to have witnessed the death of a massive star. However, as a supernova is expected to occur, no signs of the event have been detected by multiple telescopes. But instead, a black hole was seen to be the only thing left after the star's death.

According to [New Atlas](#), astronomers have witnessed the death of a star 22 light-years away from Earth. The star was described to be 25 times the size of the Earth's sun. However, the remnants of the dying star weren't seen amid using the power of NASA's Hubble Space Telescope, Spitzer Space Telescope and the ground-based Large Binocular Telescope (LBT).

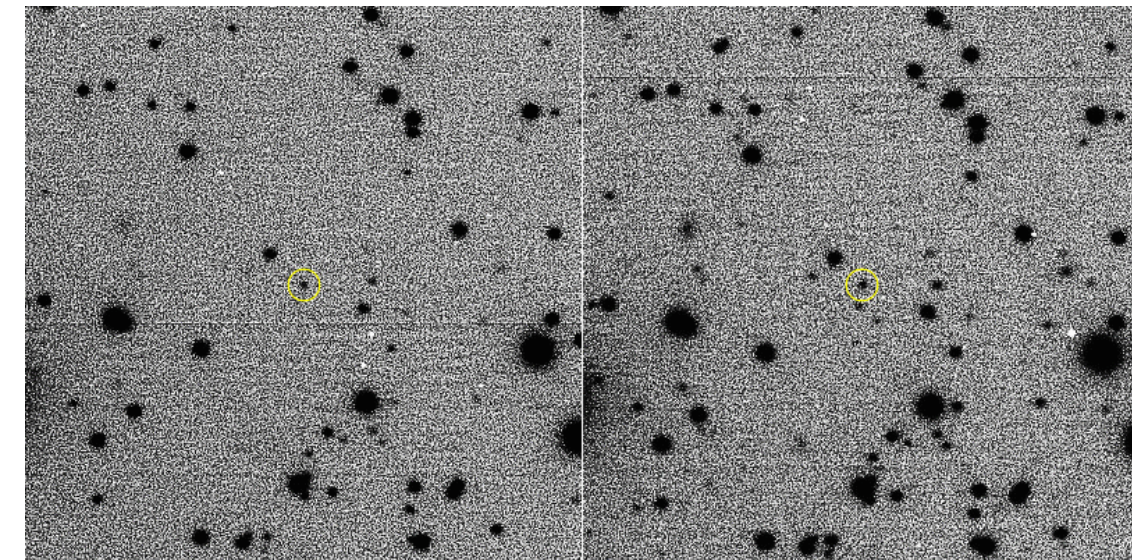


Large Binocular Telescope Observatory

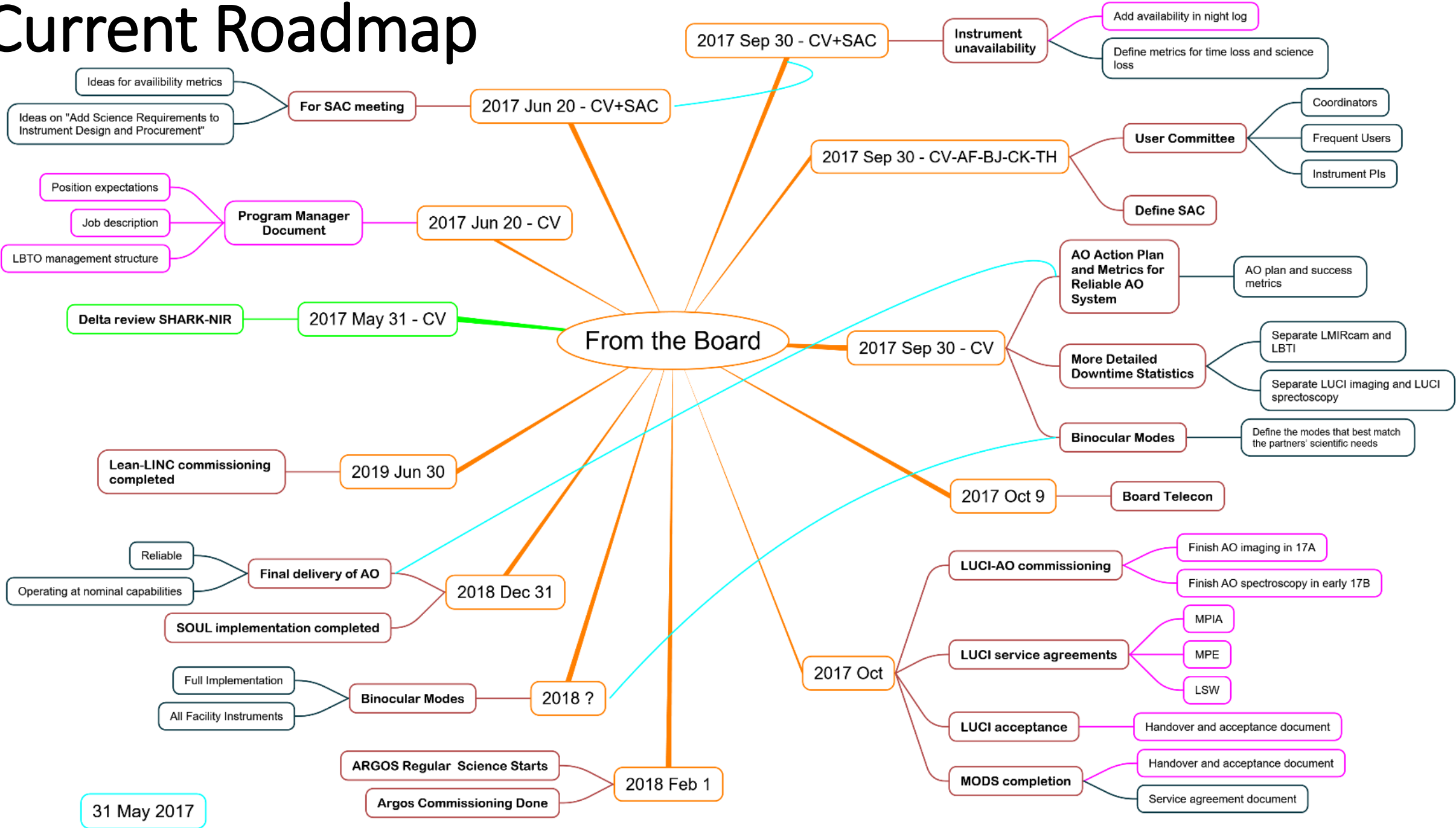
This Crazy Asteroid Orbits in Reverse While Playing Chicken With Jupiter

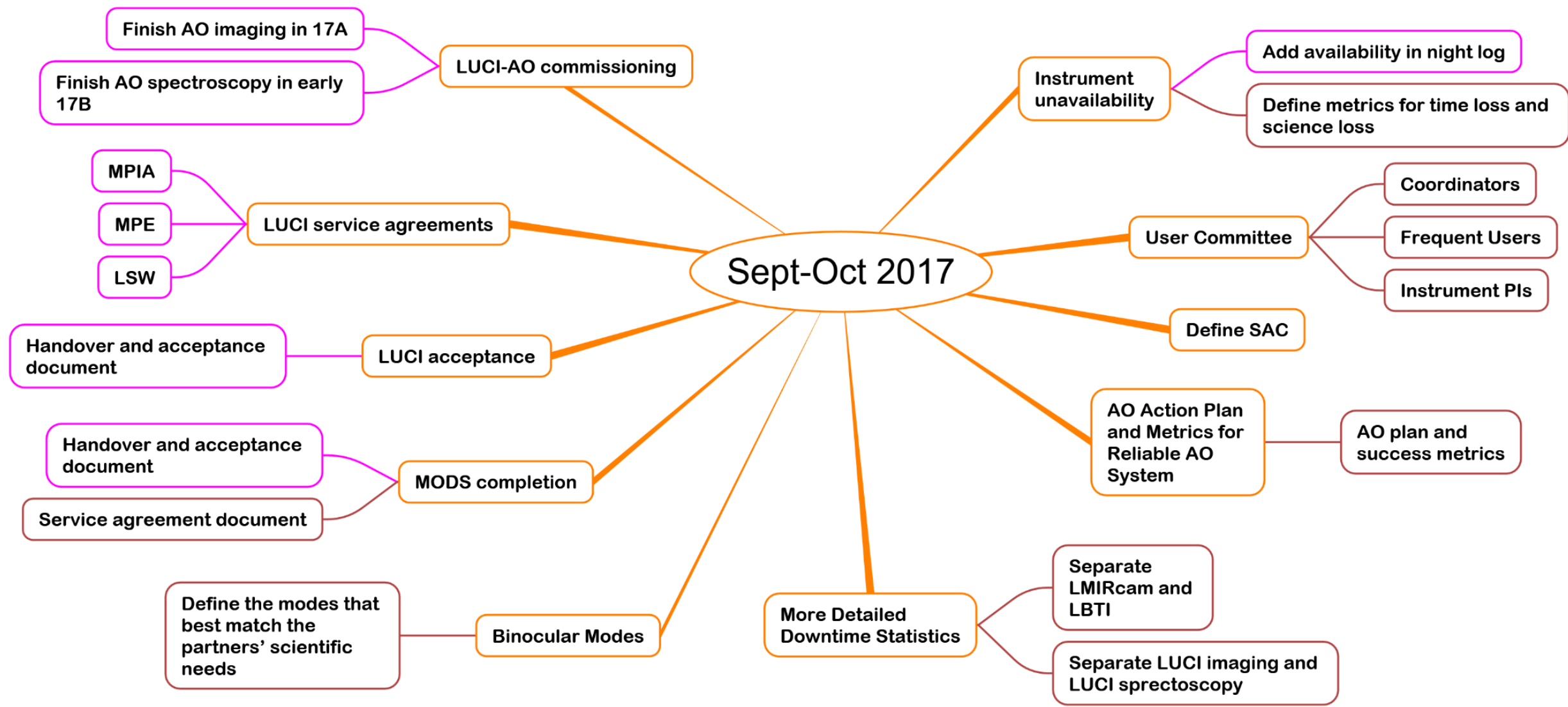
Defying death for a million years.

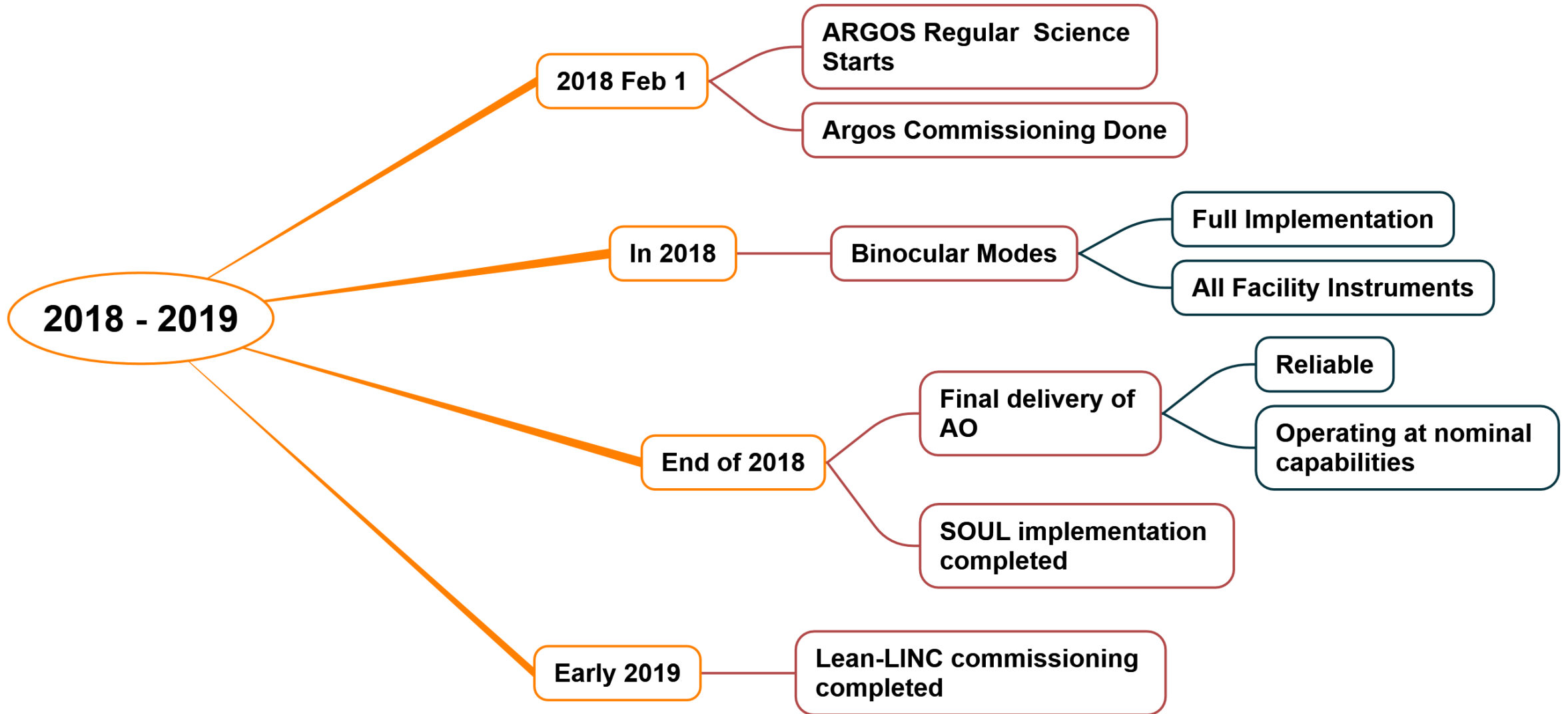
MIKE MCRAE 30 MAR 2017

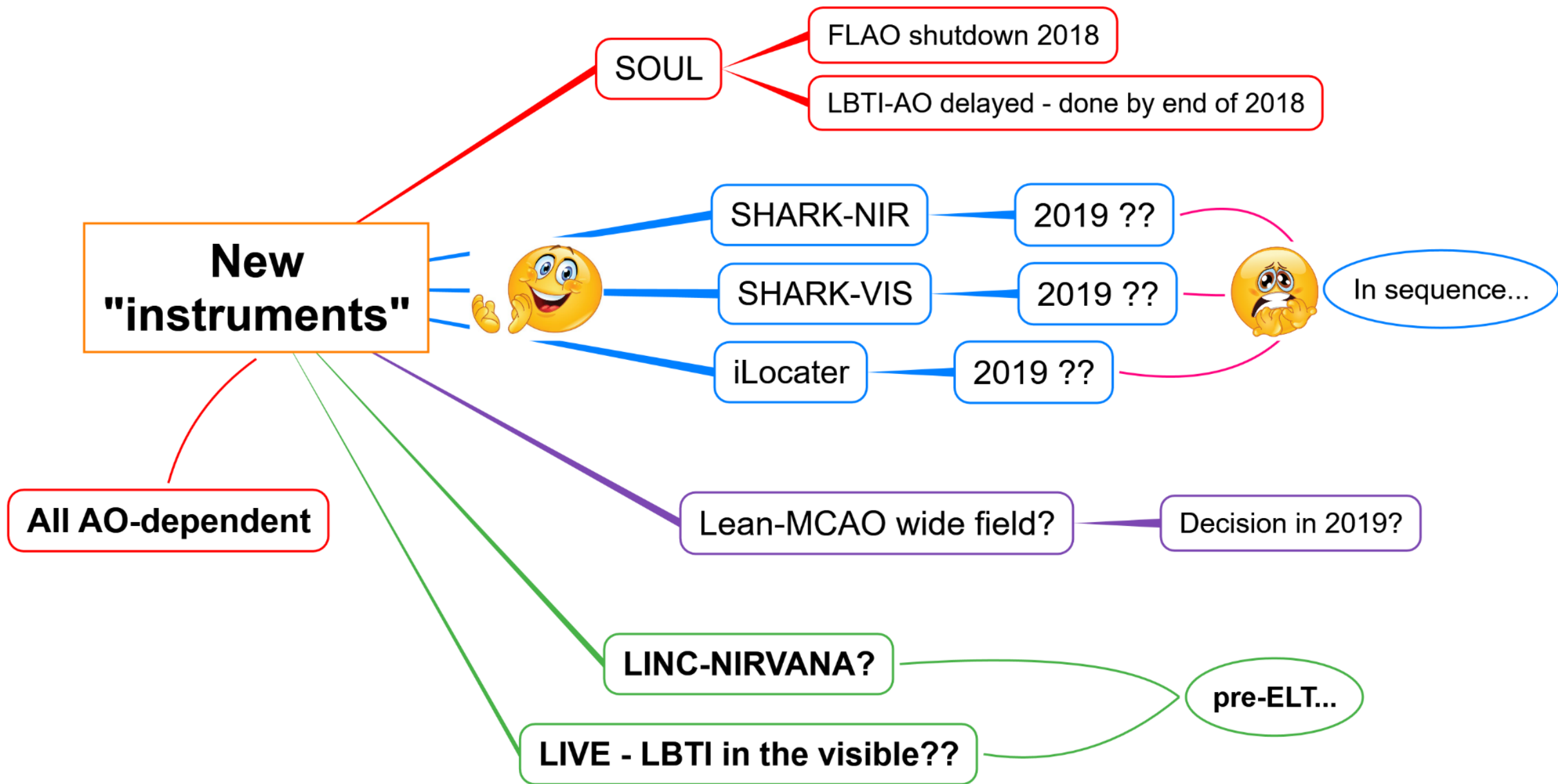


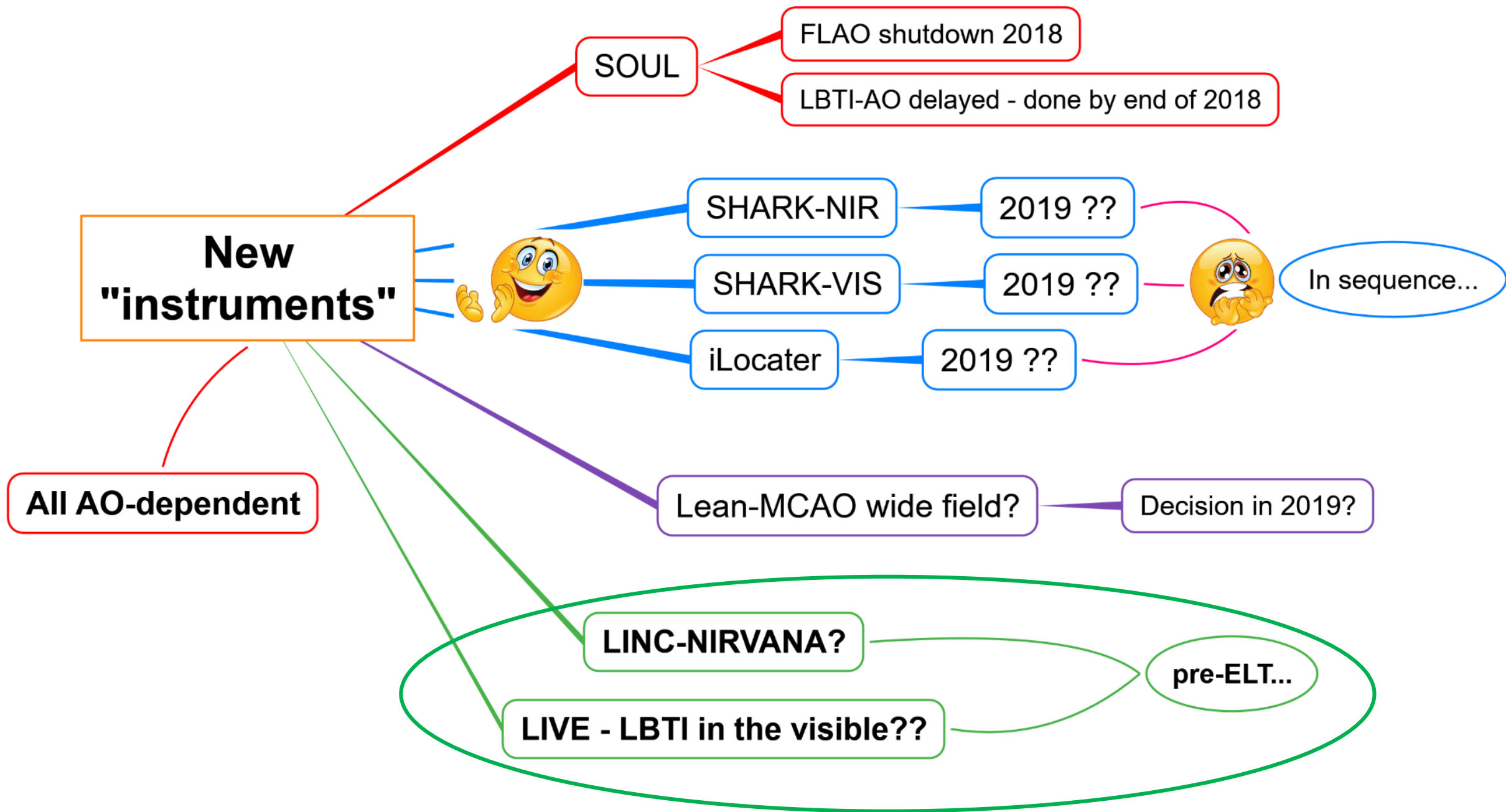
Current Roadmap







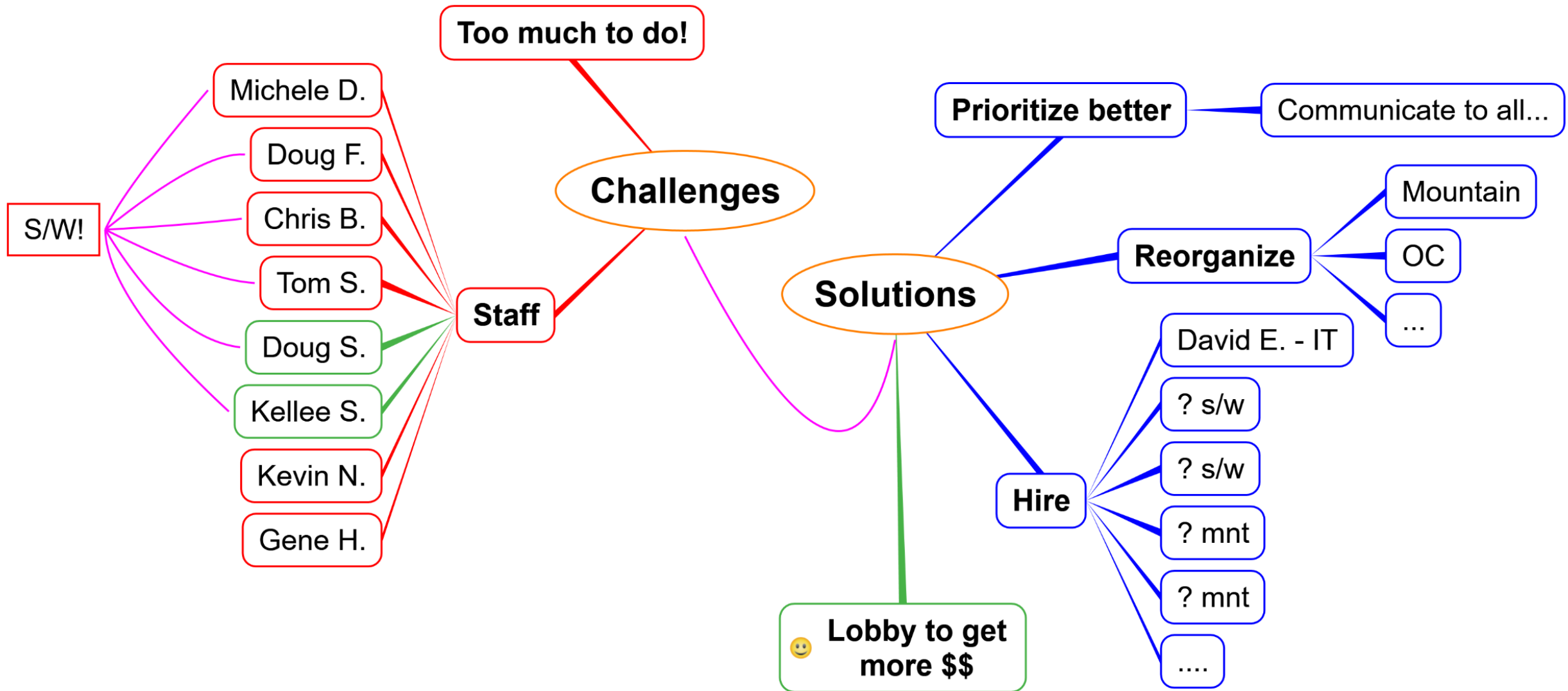




An LBTO insider's snapshot...

What about the real world?

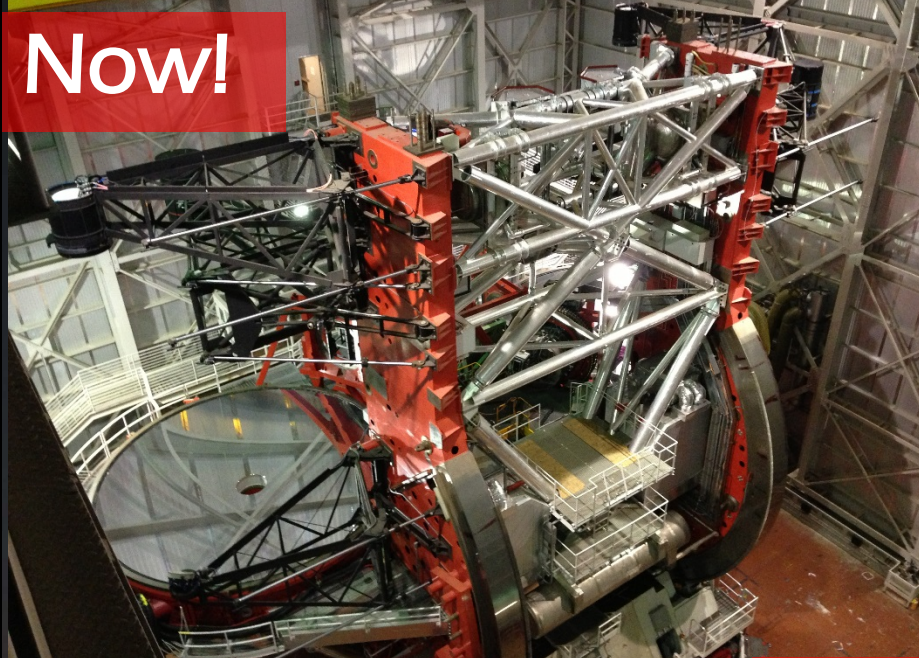
An LBTO insider's snapshot...



**We have a
time window
to shine as an
ELT**

**Let us make
sure we don't
miss it!**

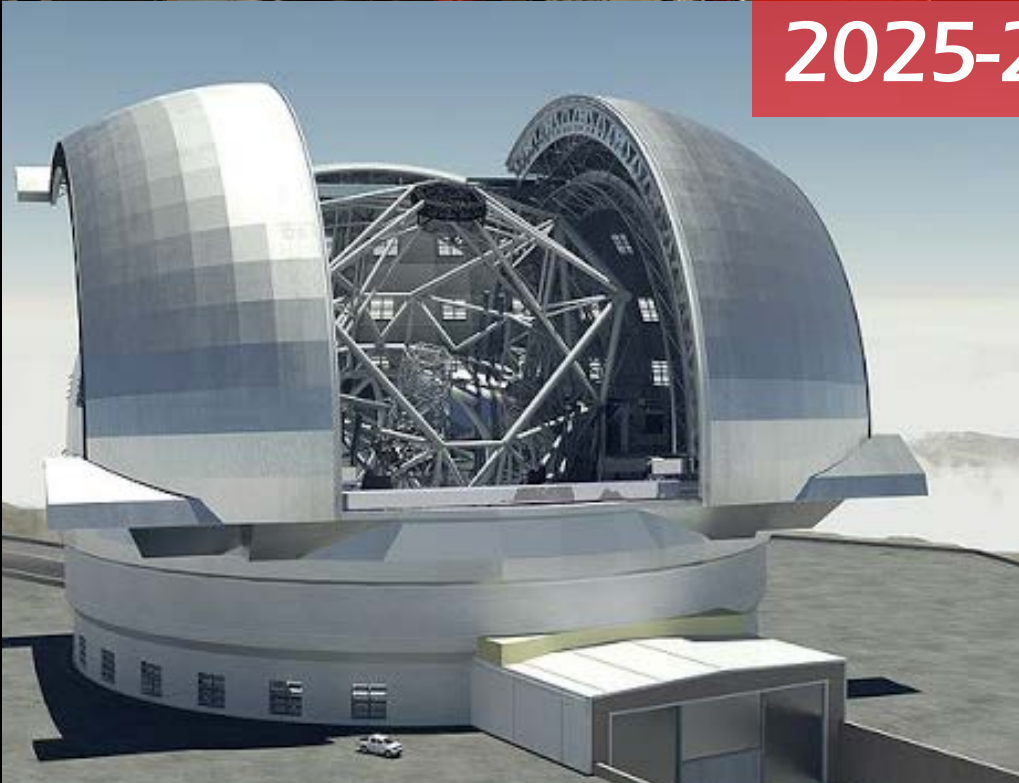
Now!



GMT (24.5) – Chile



2025-2030



TMT (30m) – Hawaii?

