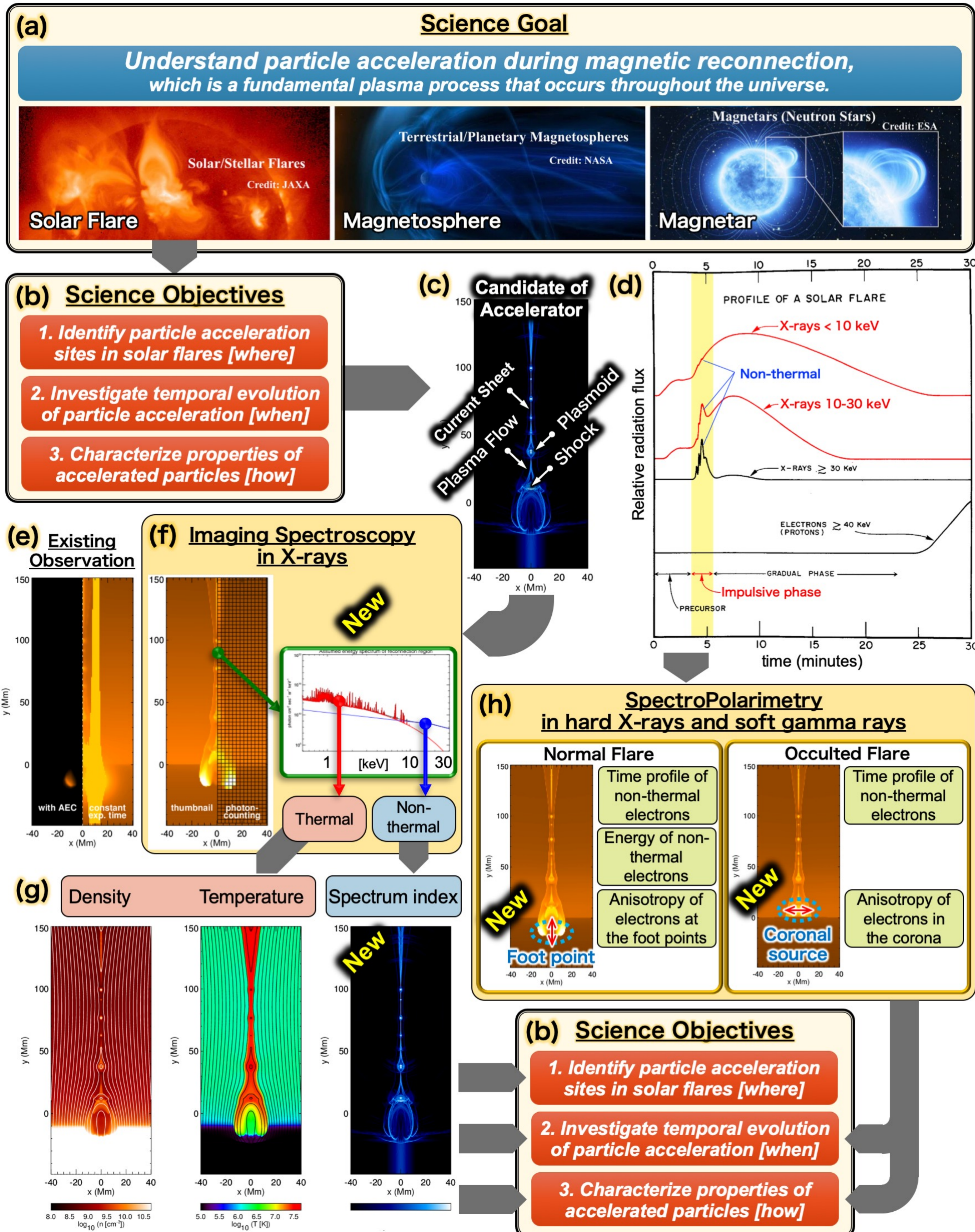


Satellite mission: PhoENiX (Physics of Energetic and Non-thermal plasmas in the X (= magnetic reconnection) region)

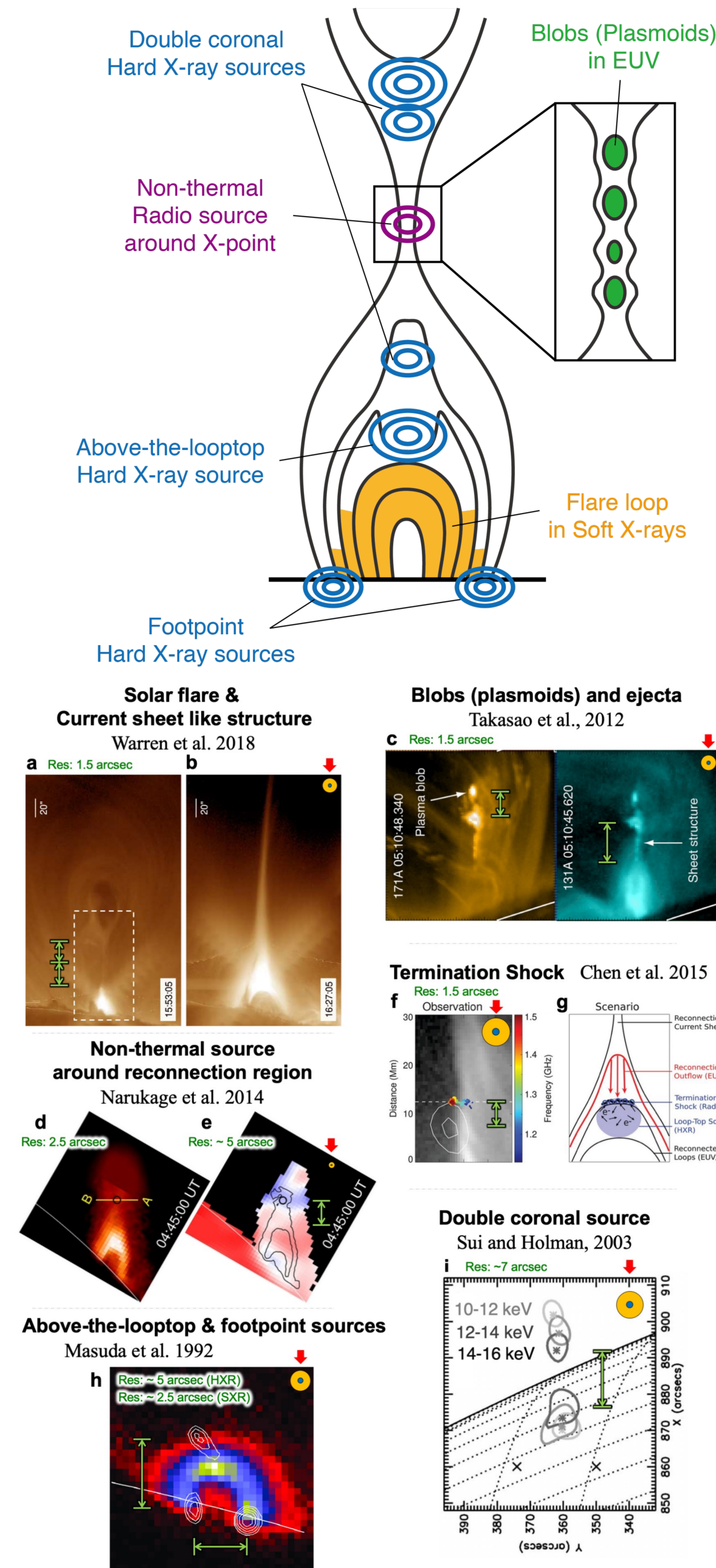
Noriyuki Narukage (National Astronomical Observatory of Japan), Mitsuo Oka, Yasushi Fukazawa, Keiichi Matsuzaki, Shin Watanabe, Taro Sakao, Kouichi Hagino, Ikuyuki Mitsuishi, Tsunefumi Mizuno, Iku Shinohara, Masumi Shimojo, Tomoko Kawate, Shinsuke Takasao, Hiroshi Tanabe, Munetaka Ueno, Tadayuki Takahashi, Takeshi Takashima, Masayuki Ohta, PhoENiX working group members

Mission concept of PhoENiX

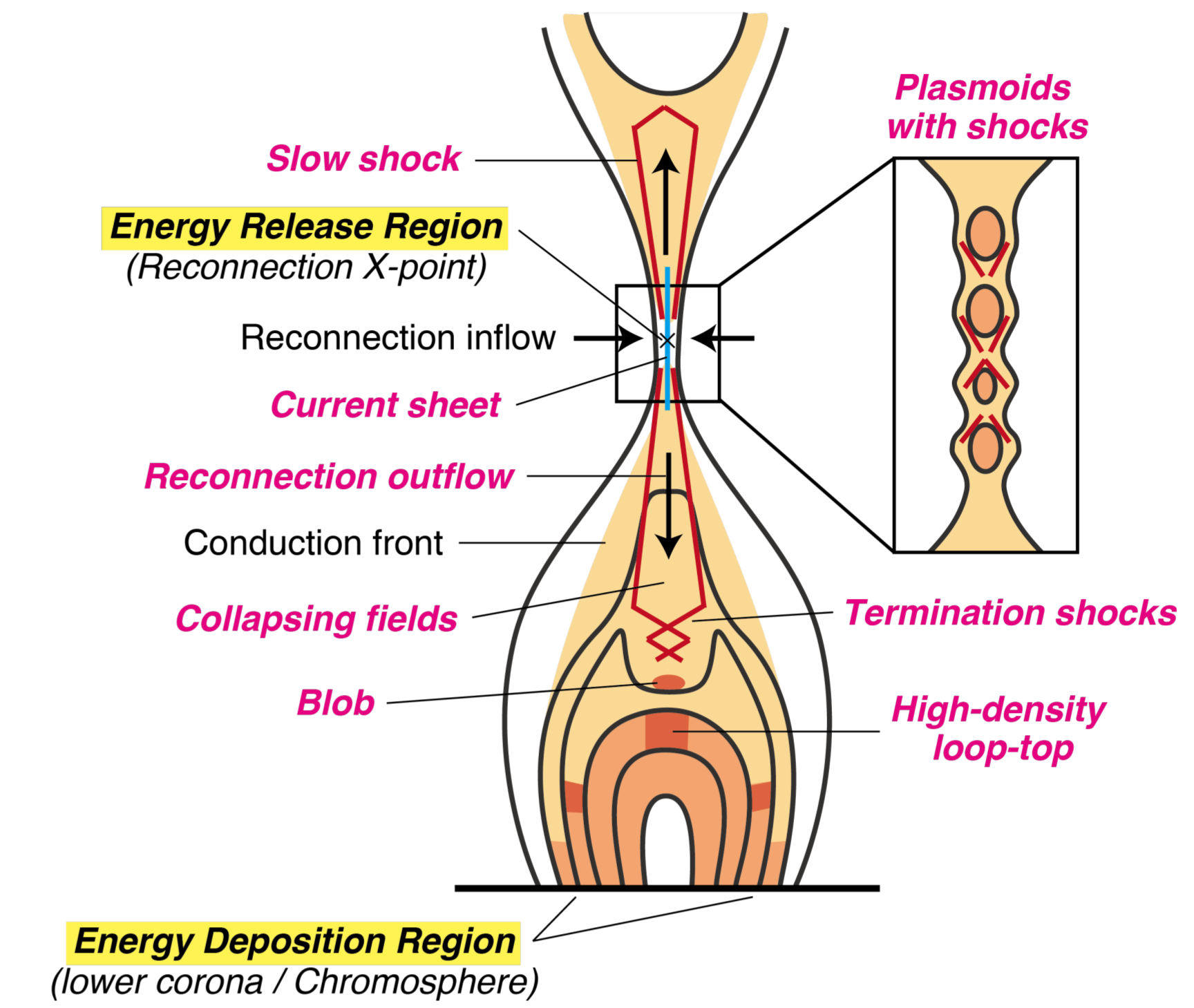


Previous observations vs New observations by PhoENiX

(a) The current picture (observations)



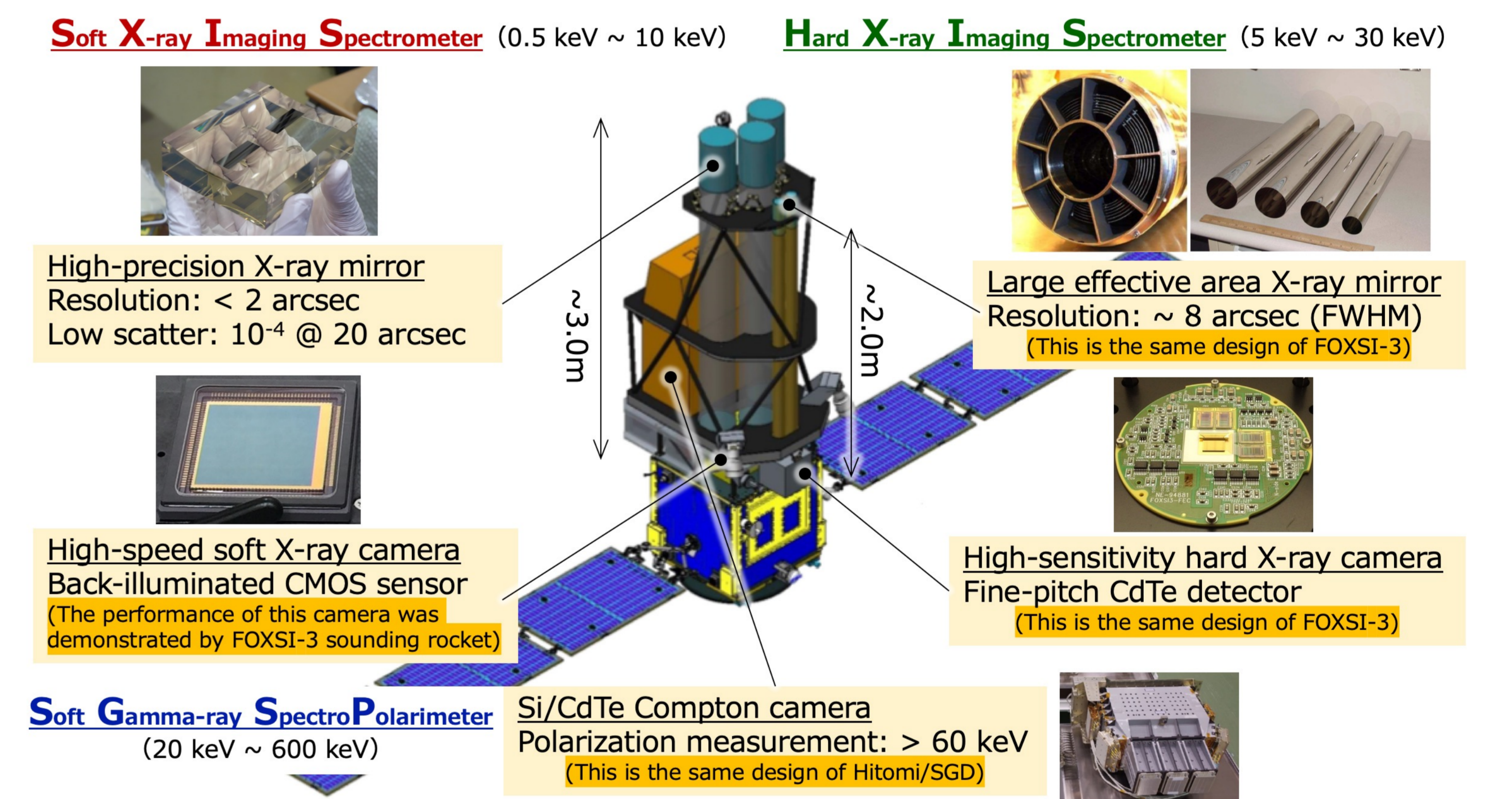
(b) Key observational targets of this mission



Schedule

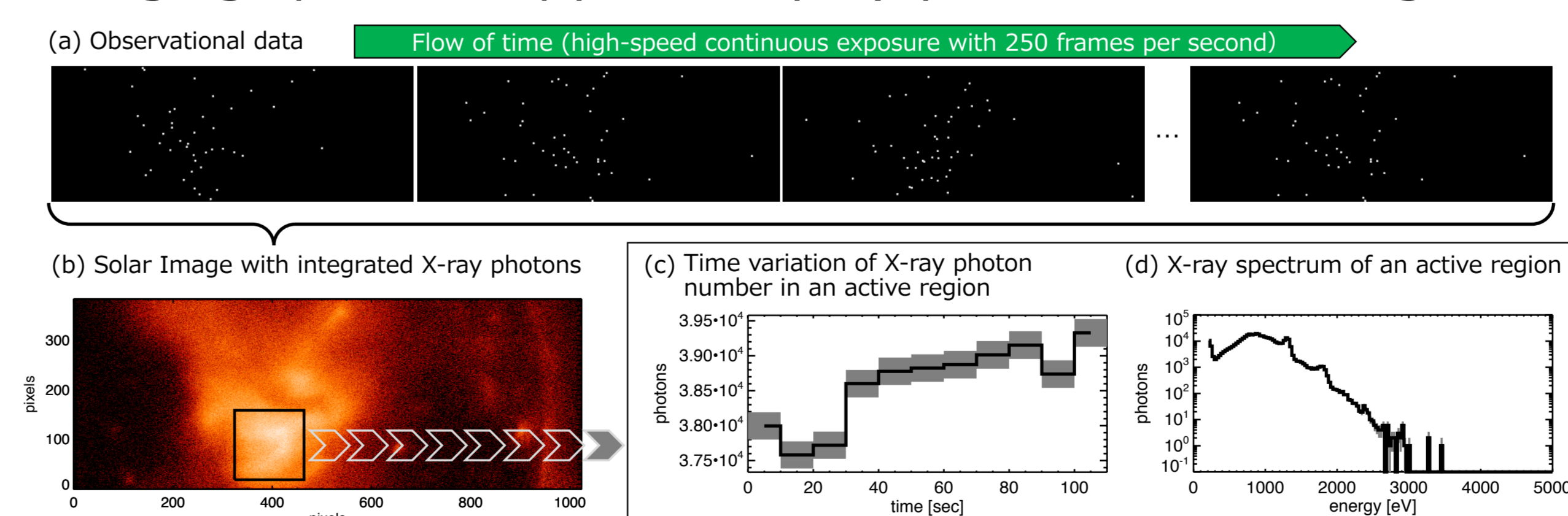
Around 2022 Submission of proposal to ISAS/JAXA
 Spring in 2024 Launch of sounding rocket FOXSI-4 for solar flare observation
 2023 - 2025 Review process
 2026 - 2032 Design, Fabrication, Integration, Test
 Around 2033 PhoENiX is expected to be launched

Instruments of PhoENiX

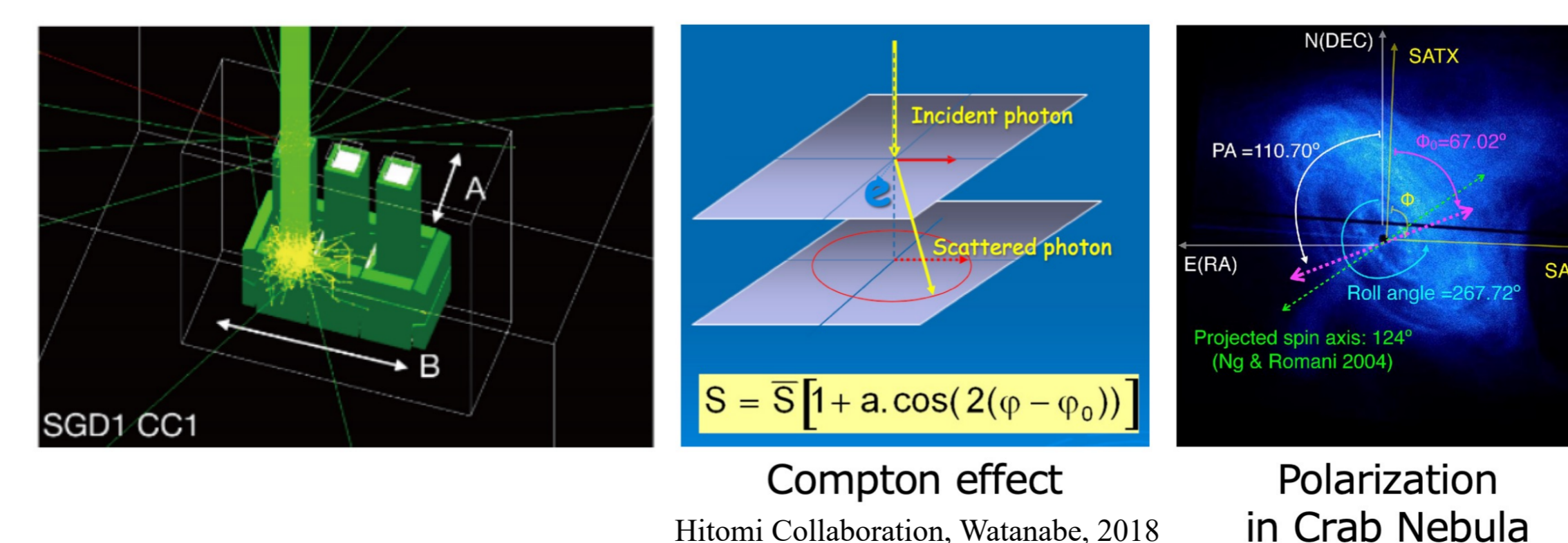


Demonstration of PhoENiX observations

Imaging spectroscopy in X-rays (by FOXSI-3 sounding rocket)



Spectropolarimetry in soft Gamma-rays (by Hitomi satellite)



Uniqueness of PhoENiX

