



ING NEXT 10 YEARS

2016 Feb 10

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ING overview

- A. Much changing at ING!
 - Usefulness of OPTICON programmes to be re-defined for us
- B. WHT survey instrument – WEAVE
- C. INT instruments – HARPS₃ + possibly other
- D. WHT TCS upgrade
- E. INT upgrade

Current model at ING

- PI science
 - 'the small customer'
 - High service standard – customer satisfaction
- Diverse instrumentation
- Visitor instruments
- WHT for technology demonstration
- Student programme @ INT
- 7(!) proposal entry points – including TNA CTAC
- **NTA fits easily in scheme**

Current instrumentation at ING

WHT

- ISIS
- LIRIS
- ACAM
- PFIP
- AF₂/WYFFOS
- Visitor instruments

INT

- WFC
- INT

Planned future model

WHT

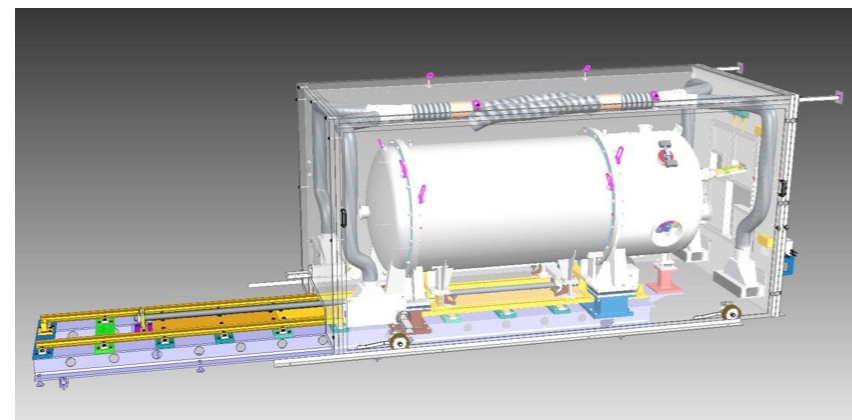
- 70% WEAVE surveys
- 30% Other
 - WEAVE
 - ISIS, LIRIS, ACAM
 - Visitor instruments

INT

- 50% HARPS₃ survey
- 50% Other
 - HARPS₃
 - ICAM (TBC)

INT new instrumentation

- HARPS-3 instrument
 - Didier Queloz, PI (Cambridge)
 - UK-NL-ES consortium
- 50% of INT time over 10 yr
- Rest for TAC allocation
- 2019 first light expected

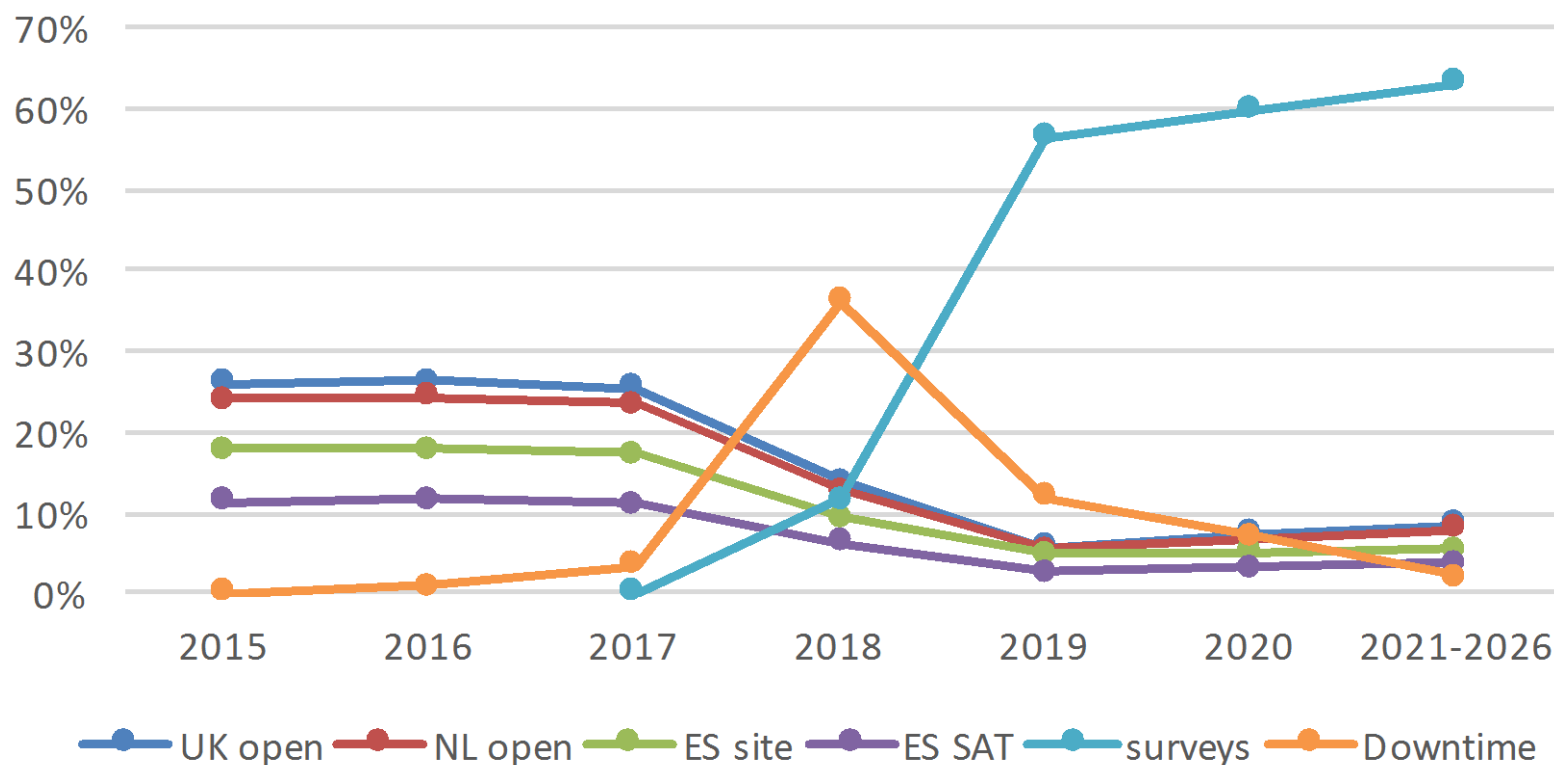


Organisational, funding

- WHT, INT ownership transferred from STFC to IAC
 - January 2016
 - STFC remains **Managing Agency**
- **Operation Agreement:** 5+5 years to 2026
 - Being signed as of now
- **Financial stability**

Transitioning to survey mode

WHT night distribution





ING timeline sketch



Year	WHT	INT
2017	Classical	Classical
2018	35% downtime Q1: new TCS Q3 WEAVE integration	Classical
2019	70% WEAVE surveys 30% PI, Service, Visitor, Technology dem.	50% downtime INT upgrade?
2020	Same	HARPS ₃ deployment
2021-2026	Same	
2021-2030		50% THE survey 50% other
2023?		Deploy INT second instrument?

TNA

- WHT, INT in TNA to 2017
- 2018 depends on developments, WEAVE, INT
- 2019 onwards: need to re-evaluate
 - TNA on WEAVE? Should be feasible when surveys running smoothly
 - TNA with HARPS₃? Needs negotiation with HARPS₃ PI.



WHY TNA at ING



Science & Technology
Facilities Council



- Low TNA demand for ING telescopes
- Sense of community
- Financial help
- But far from overall goal of EC funding of 'European mid-size observatories'
- TDA –not the biggest players
 - But can do – even with WEAVE and certainly INT
 - Response time hours

Why ING at TNA

- Quality? We feel we are far from being able to exert control over quality of proposals
 - Would not be comfortable with scheme if it took many more nights

ING and FPg

- Survey technologies
 - Schedulers etc
 - Pipelines – the next generation
- Fibres
 - Developing the European industrial base
- Emerging instrument technologies
 - Photonic spectrographs
 - Matching focal planes