

Vattenfall Offshore Wind Norfolk Vanguard PINs Update

13th April 2016

Meeting Agenda

- Introductions
- Project update
 - Short recap
 - High-level timetable
 - Stakeholder engagement to date
 - S42
 - S47
 - Team structure
- EPP update and outline EIA program
- Consultation approach
- Lessons Learnt
- AOB

Introductions

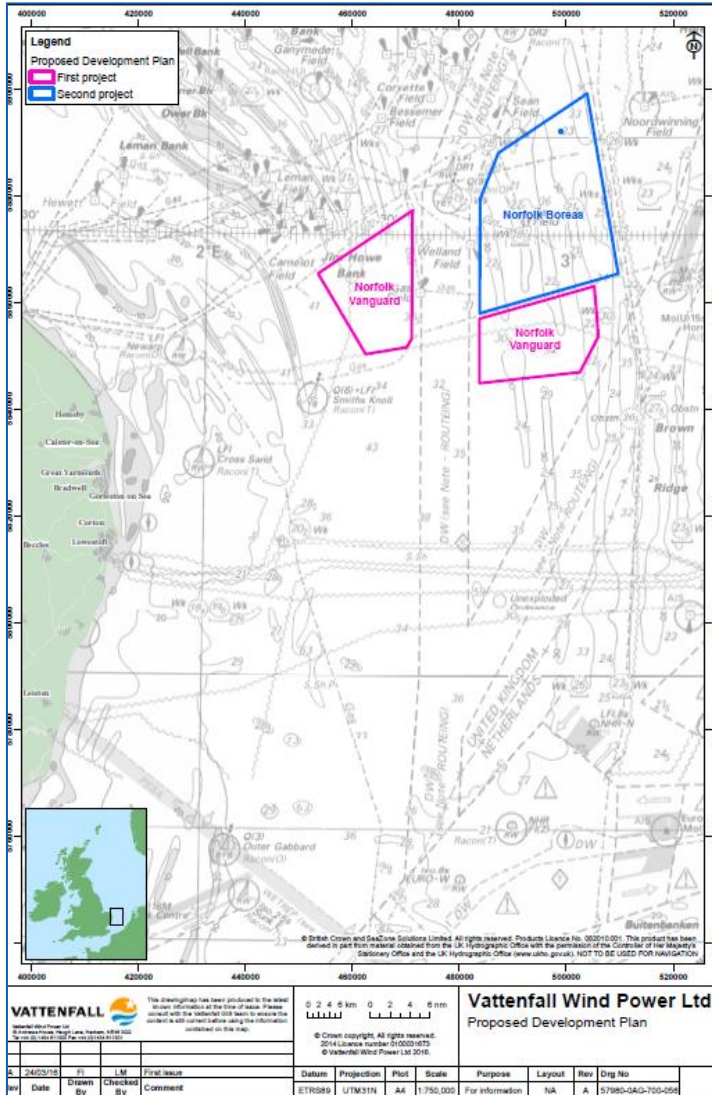
- **VWPL**
 - Ruari Lean – Project Manager
 - Kathy Wood – Consents Manager

- **RHDHV**
 - Alistair Davison – Sector Director - Renewable Energy Development

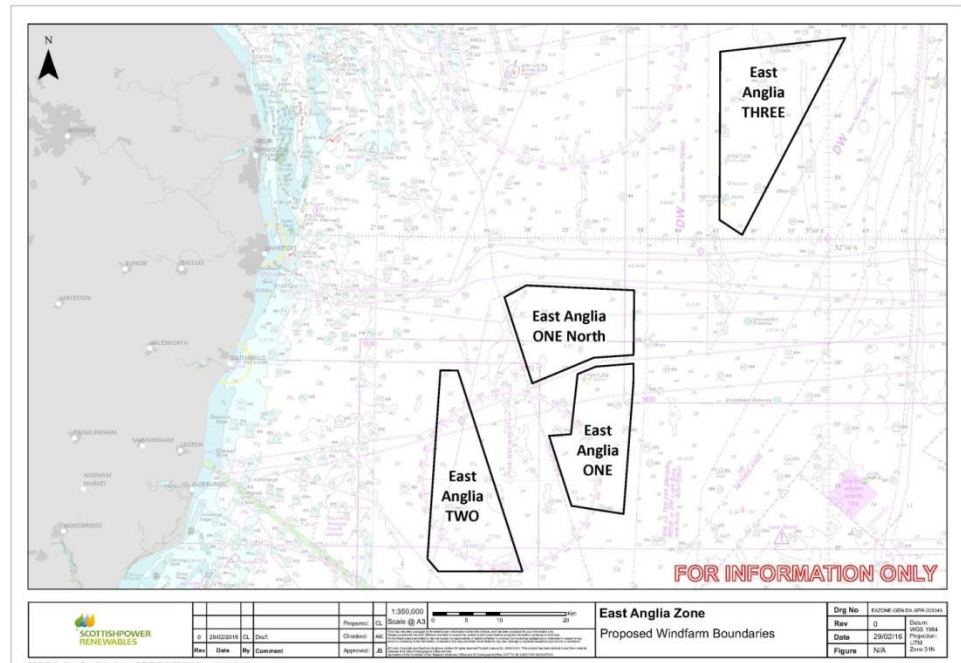
- **Bond Dickinson**
 - Victoria Redman – Partner
 - Claire Rees - Managing Associate

- **Remarkable Pendragon**
 - Will Morgan – Account Director

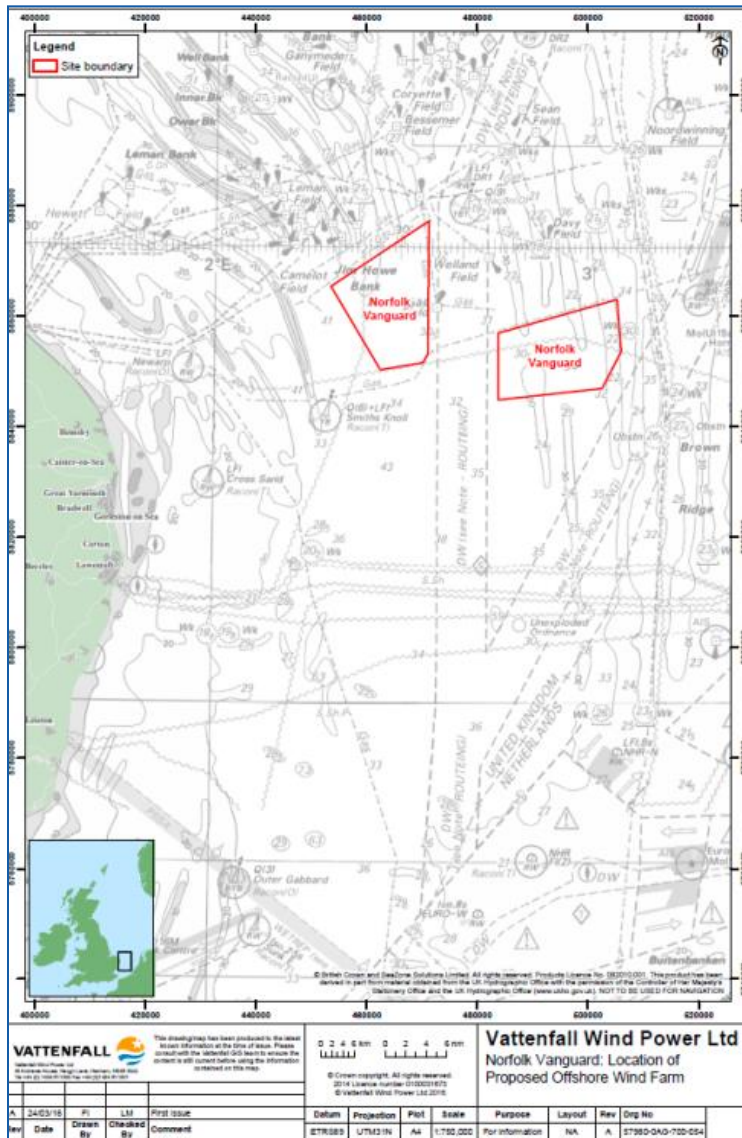
Background



- Northern part of what was East Anglia Zone 5 to be developed by Vattenfall
- Sites identified building on work undertaken to identify the lowest cost buildable projects
- Norfolk Vanguard is the first project to be developed
- Norfolk Boreas development will start 1 year later
- ScottishPower Renewables Projects (See below)



Norfolk Vanguard – Overview



Project	NV West	NV East
Average Wind Speed m/s @ 107m AMSL	9.81 m/s	9.89 m/s
Distance to Landfall (approx.)	Bacton: 73 km Gorleston: 62 km	Bacton: 89 km Gorleston: 79 km
Maximum Site Area (km ²)	295 km ²	297 km ²
Number & Size of Turbines	Up to 225 x 8MW	
Ground Conditions	Sand, Clay & Peat mobile sea bed	Sand, Clay & Peat mobile sea bed
Water Depth (below Chart Datum)	37.2 m	35.1 m
Nearest Operational Developments	Scroby Sands (45 km) Sheringham Shoal (75 km)	Scroby Sands (65 km) Princess Amalia (77 km) Egmond an Zee (87 km)
Nearest Developments in Planning	East Anglia THREE (15km)	East Anglia THREE (adjacent)
	East Anglia ONE (54km)	East Anglia ONE (50km)
	IJmuiden Wind Farm Zone (46 km)	IJmuiden Wind Farm Zone (14 km)
	Dudgeon (67 km) North Holland Coast (69 km)	North Holland Coast (36 km) Hornsea (88 km)
	Hornsea (73 km) Race Bank (99 km)	Dudgeon (97 km)
OFTO	HVAC / HVDC export to shore	

Norfolk Vanguard & Norfolk Boreas Outline Programmes

	Norfolk Vanguard	Norfolk Boreas
Consented Size (MW)	1800	1800
Scoping (proposed)	Oct-16	Oct-17
Prelim Environmental Info (Section 42 consultation)	Dec-17	Dec-18
Consent Application	Jun-18	Jun-19
Consent Granted	Dec-19	Dec-20

- Post consent timetable will be dependent upon :
 - I. Regulatory Regime
 - II. Grid Connection dates
- Vattenfall is currently working with National Grid to understand the most economic, efficient and co-ordinated way of connecting these projects to the grid. How the connection will be made has not yet been decided. Once this is known, we will consult local stakeholders on the proposed grid connection point and possible routes to the shore

Norfolk Vanguard – Stakeholder Engagement To Date

- **Engagement with S.42 Stakeholders**

- MCA and TH
- MMO
- Natural England
- Historic England
- Norfolk County Council (NCC), Great Yarmouth Borough Council, North Norfolk District Council
- RSPB
- Visits to Norfolk / Suffolk planned: NCC, Suffolk County Council (SCC), Environment Agency, Norfolk Wildlife Trust

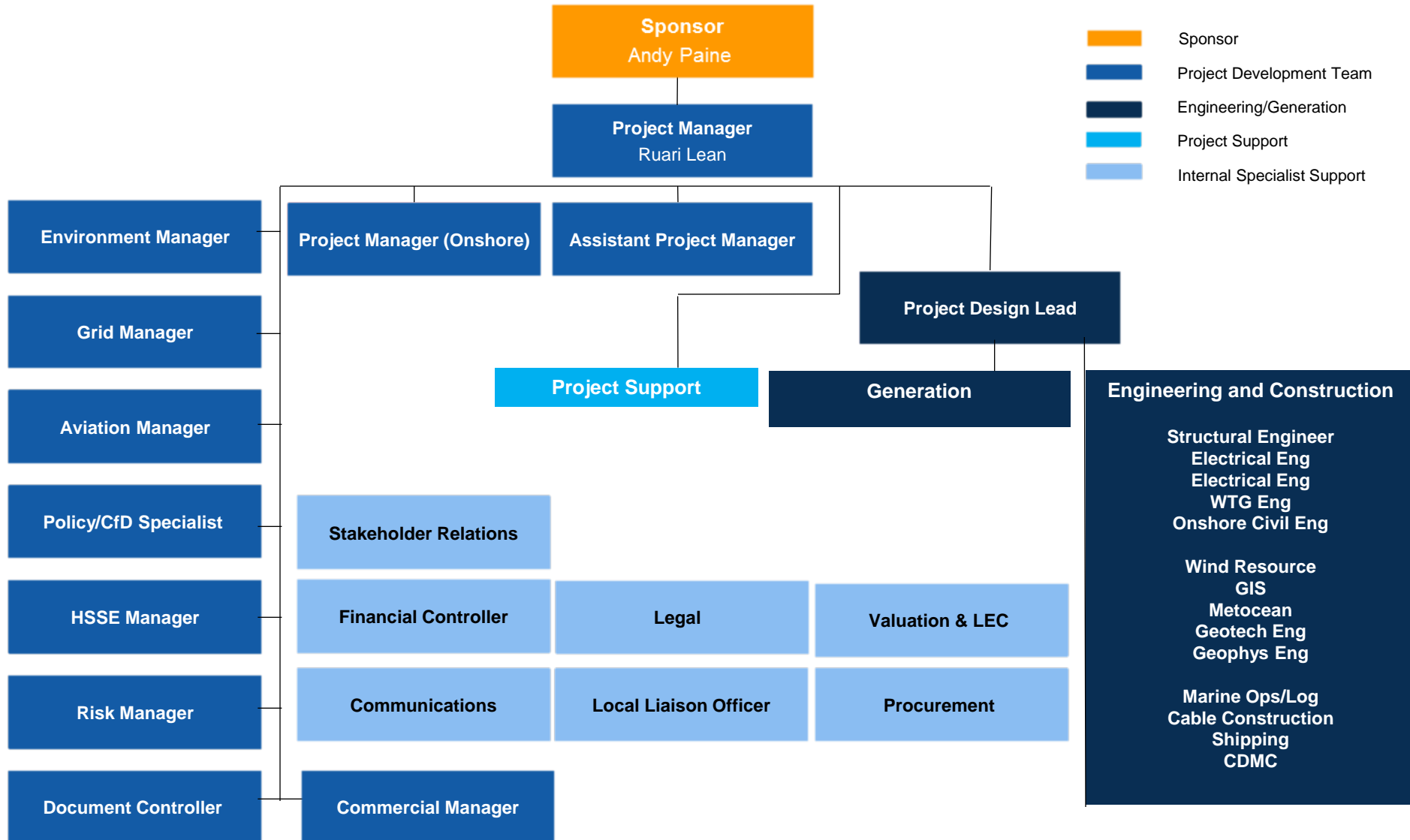
- **Engagement with S.47 Stakeholders**

- Engagement with local onshore community prior to Scoping
- Engagement with fishermen prior to geophysical survey

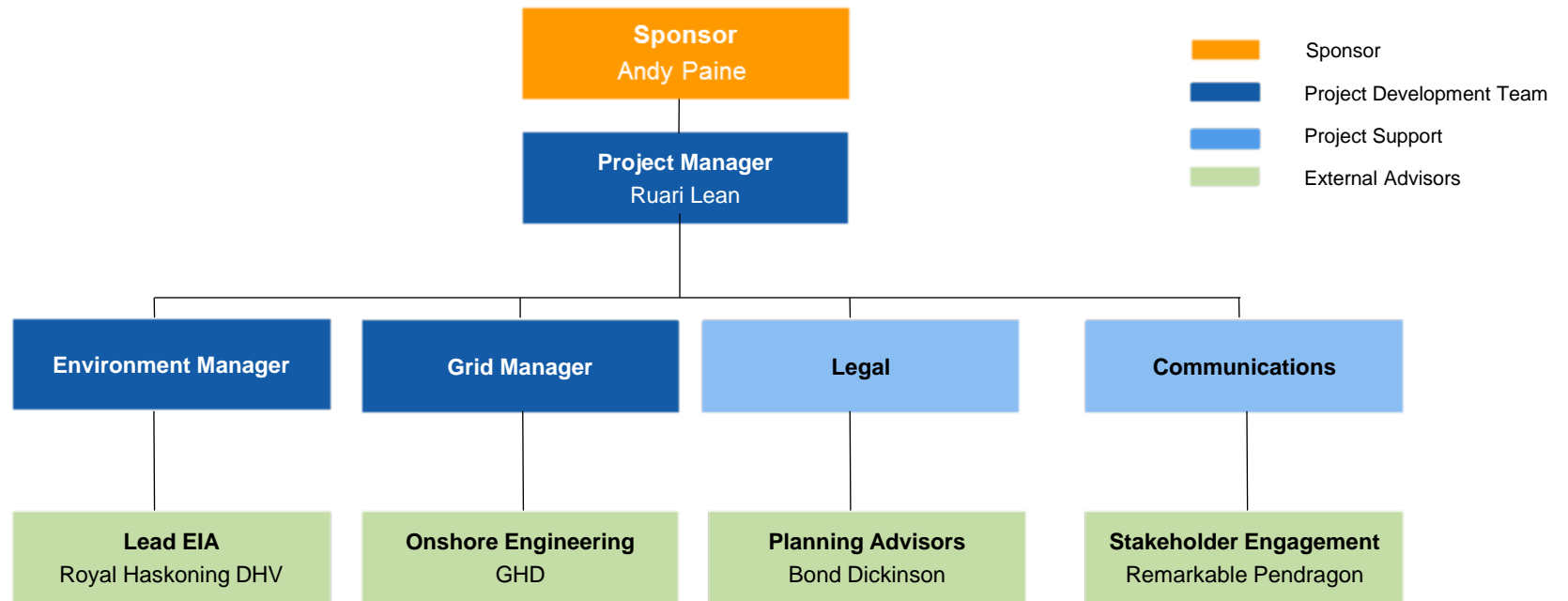
- **Stakeholder Management**

- Remarkable Group
- Evidence Plan Process

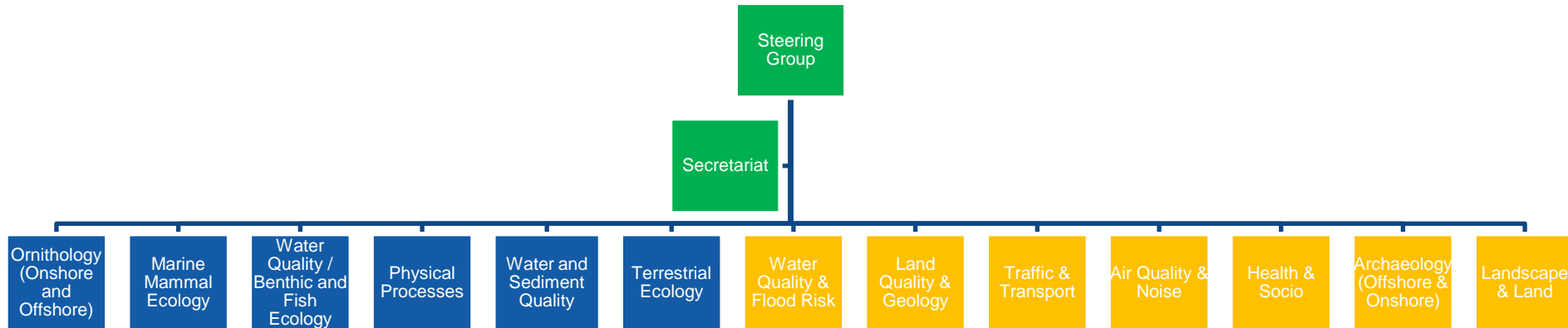
Norfolk Vanguard Team Structure



Norfolk Vanguard Lead Subcontractors



Evidence Plan Process



- Kick off meeting 21st March 2016
- Terms of reference
- Minutes
- EPP – next steps

Norfolk Vanguard - Outline EIA Program

- **Key target dates**
 - Scoping : October 2016
 - 1st phase of Project Information Days : October 2016
 - PEIR : December 2017
 - DCO Consent submission : June 2018
 - Target consent award : December 2019
- Phasing of works
- New EIA Regulations

Norfolk Vanguard - Approach to Consultation

Consultation key elements :

- Informal (non-statutory) consultation – 2016
- Feedback (Interim Consultation Report) and development of Draft SoCC – Winter 2016 / Spring 2017
- Development and consultation on draft SoCC – 2017
- Statutory consultation – Winter 2017 / Spring 2018
- Final Consultation Report finalised for DCO consent submission – June 2018

Above processes to be defined in detail further to discussions with Norfolk County Council and other stakeholders

Lesson Learned – from other EPPs

- For discussion:
 - No surprises approach
 - Sequential, evidence based decision making
 - Early meeting - EIA issues, survey scopes and analysis
 - Key discussions - HRA, EIA management measures
 - Review and agreement of key outputs
 - Joint discussion aids confident decision making
 - Direct outputs - Meeting minutes
 - Indirect outputs and influence - HRA, EIA, DCO
 - Clear remit for Steering Group and Topic Groups
 - Inclusive and flexible

Any other business?

- Next meeting
- Lines of communication between Vattenfall and PINs