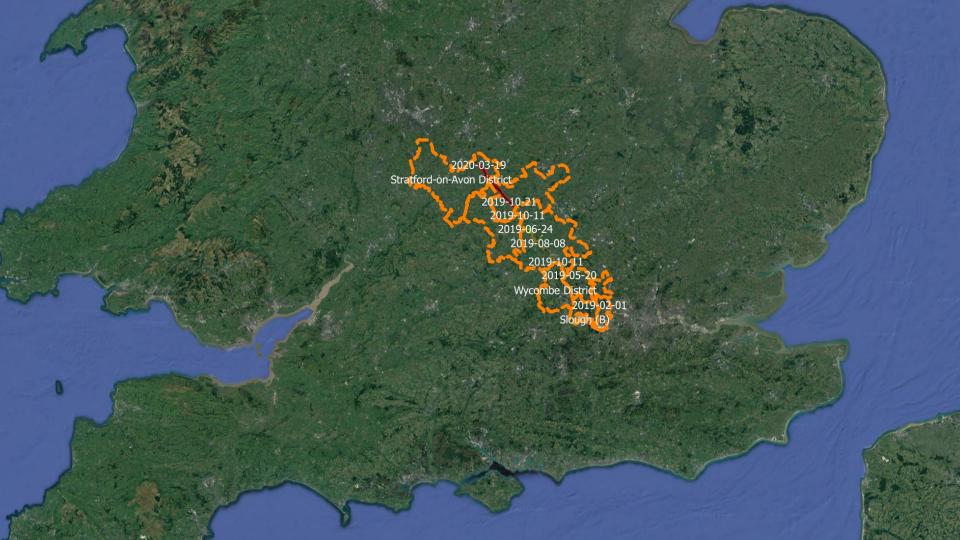
# JV Morgan Sindall Infrastructure BAM Nuttall Ltd and Ferrovial Agroman.

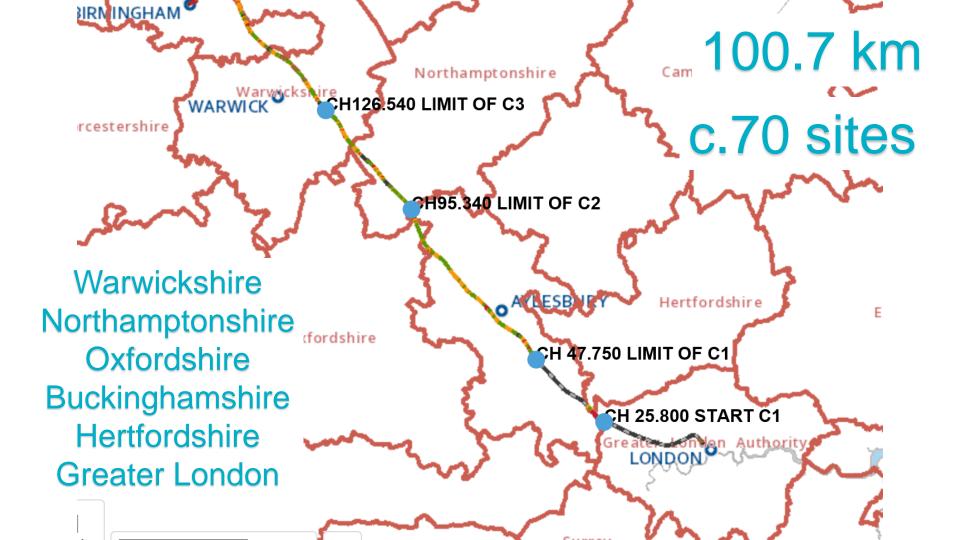


## **HS2 Phase 1 Central Section: Area** wide Historic Environment

The work package delivery plan – overview to Heritage Sub group

Fusion Historic Environment Team 26 Sep 2017





#### **CENTRAL AREA: Major sites - KNOWN**

- 1. Colne Valley
- 2. Grim's Ditch- prehistoric Scheduled Monument
- 3. Stoke Mandeville-St Mary's Church, burial ground and settlement
- 4. Fleet Marston Roman settlement, Akeman Street and Thame valley
- 5. Doddershall Deserted Medieval Settlement
- 6. Chetwode medieval settlement
- 7. Edgcote battlefield
- 8. Blackgrounds Roman Villa and Cherwell valley
- 9. Illets Farm- Roman Temple and settlement and Great Ouse valley
- 10. Radstone Deserted Medieval Settlement
- 11. Lower Radbourne Deserted Medieval Settlement
- 12. Heritage asset setting surveys
- 13. Built heritage recording listed and non listed local importance
- 14. Historic landscape recording and research

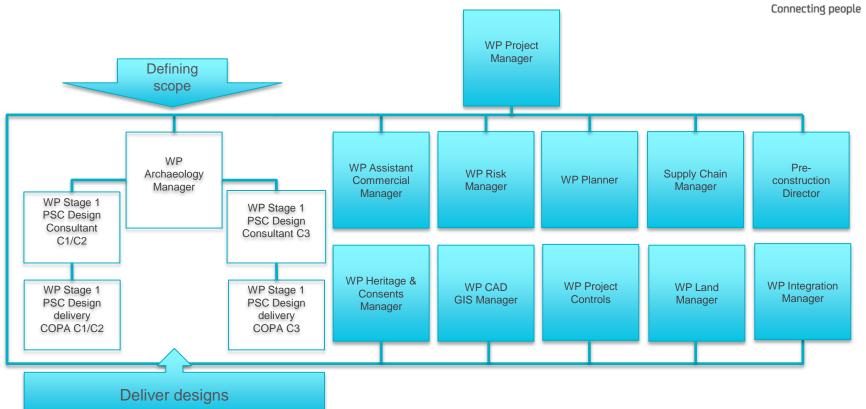
#### Up to 50 further locations may be investigated....

#### **Community Forum Areas**

- Colne Valley: CFA07
- The Chalfonts and Amersham: CFA08
- Central Chilterns: CFA09
- Dunsmore, Wendover and Halton: CFA10
- Stoke Mandeville and Aylesbury: CFA11
- Waddesdon and Quainton: CFA12
- Calvert, Steeple Claydon, Twyford and Chetwode: CFA13
- Newton Purcell to Brackley: CFA14
- Greatworth to Lower Boddington: CFA15
- Ladbroke and Southam: CFA16

#### **Fusion Organisation**



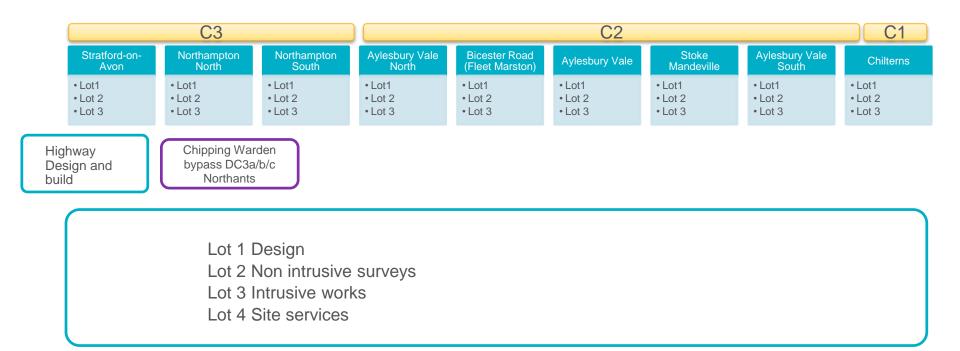


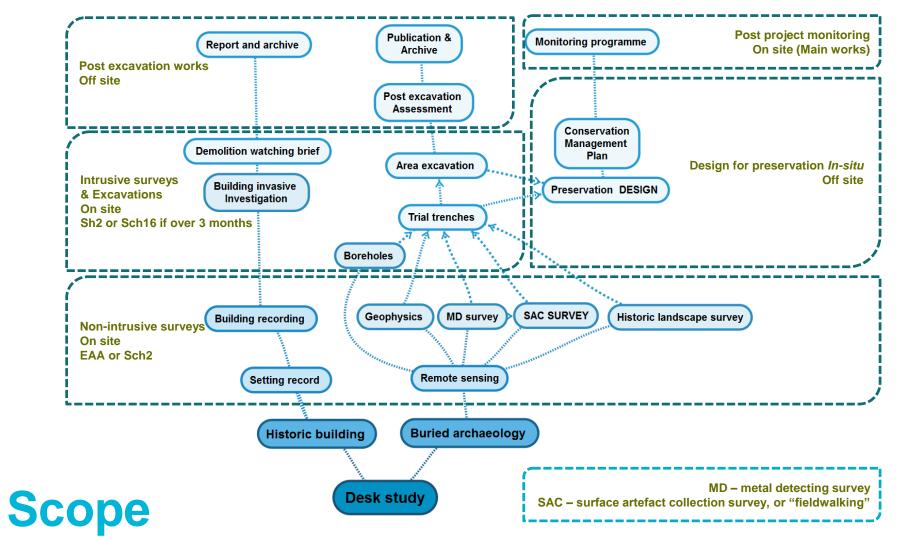
### **Fusion Archaeology framework - packages**

Contract

Area	Package	Package Name	Start Element	Finish Element	Start CH	End CH	Length
C1	AC100	Chilterns	Colne Valley	Wendover Dean South Embankment	25800	50525	24.7 km
C2	AC210	Aylesbury Vale South	Wendover Dean Viaduct	Wendover North Cutting	50525	56550	6.02 km
C2	AC220	Stoke Mandeville	Stoke Mandeville South Embankment	Stoke Mandeville South Embankment	56550	58400	1.85 km
C2	AC230	Aylesbury Vale	Aylesbury South Cutting	Whaddon Hill Cutting	58400	64300	5.9 km
C2	AC240	Bicester Road (Fleet Marston)	Thame Valley Viaduct	Waddesdon North Cutting	64300	70650	6.35km
C2	AC250	Aylesbury Vale North	Quainton South Embankment	Turweston Embankment	70650	95570	24.9 km
C3	AC300	Northampton South	Turweston Viaduct	Greatworth Green Tunnel	95570	104050	8.4 km
C3	AC310	Northampton North	Thorpe Mandeville Cutting	Edgcote Cutting	104050	109830	5.8 km
C3	AC320	Stratford-on-Avon	Chipping Warden Green Tunnel	Leamington Road Embankment	109830	126540	16.7 km

#### Fusion Archaeology framework - packages





Typical programme lead in times to MWC handover

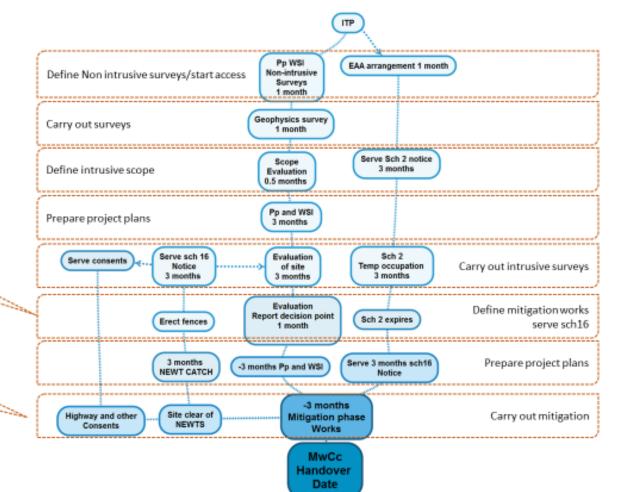
If newt fences needed Sch

16 needs serving 3

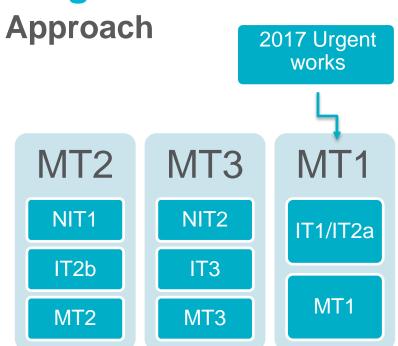
Highway consents allow 4

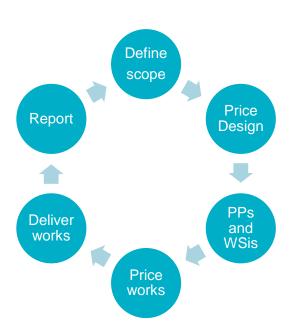
month lead in

months before



#### **Programme**





#### **HERDS** response – new scheme elements

Design Element	Describe	Response	
Permanent earthworks			
Structural earthworks and			
utilities	Full impact	HERDS	
Sustainable placement	Topsoil strip and excavate - or topsoil strip only	Review	
Temporary material stockpile			
Topsoil on topsoil	No topsoil strip, use backtipping	Preserve in situ	
	If feasible preserve in situ – careful topsoil strip, no		
Subsoil	plant tracking, place fill by back tipping	Review	
New landscaping features			
Hedgerows	Non significant impact	None	
Woodland habitat	Depends of status of area	Review	
Ecology pond	Partial impact	Review	
Wetland habitat	Probable full impact	HERDS	
Grassland habitat	Partial impact (subsoil ripping maybe required)	Review	
Woodland planting	Depends of status of area	Review	

## Options Preservation in situ (PIS) – where significant finds made – reduce impact to conserve assets

Construction activity	PIS options
Sustainable placement/Temporary material stockpile	Leave Topsoil in situ and back-tip materials
	Provide geotextile membrane and back- tip material
Grassland habitat	Avoid subsoil ripping if feasible and adopt alternative methods for lowering fertility On highly sensitive locations - provide additional soil layer to protect remains
Woodland planting/habitat	from future root disturbance
	Choose low impact species

- Robust baseline
- Target maximum magnetometry coverage
- Select sites for intrusive evaluation various resolution/sample size depending on targets
- Select sites for investigation
- Develop decision making model
- Develop process for "blank area" testing

