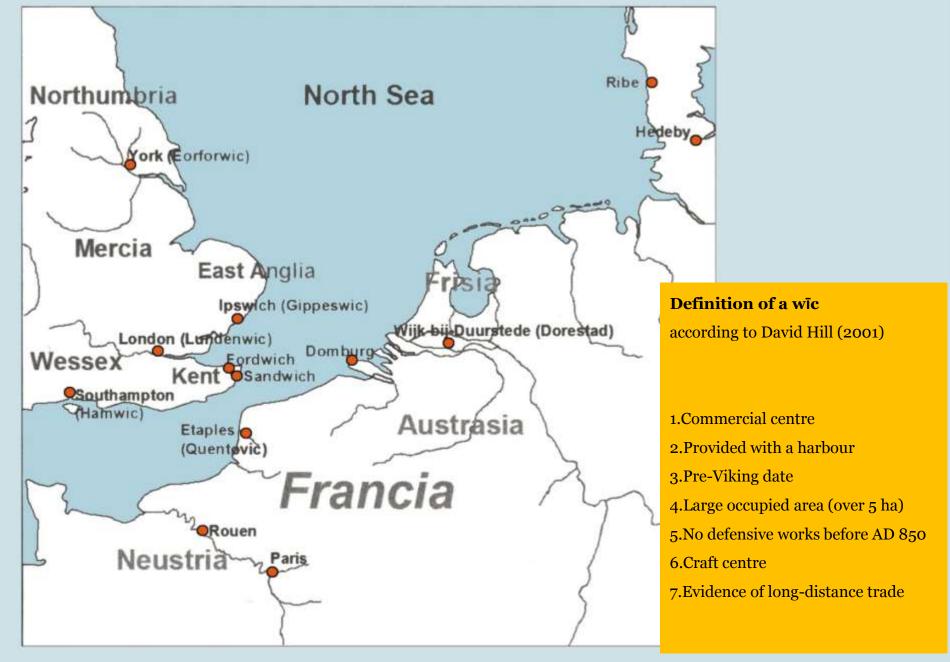
# Revealing the biographies of Europe's early medieval trading towns:

the case-study of Hedeby

Dr. Volker Hilberg

Archäologisches Landesmuseum Stiftung Schleswig-Holsteinische Landesmuseen Schloß Gottorf, Schleswig



Early medieval *emporia* / wīcs of the 7th-/8th centuries in the North Sea area (Middleton 2005 after Kalmring 2010)

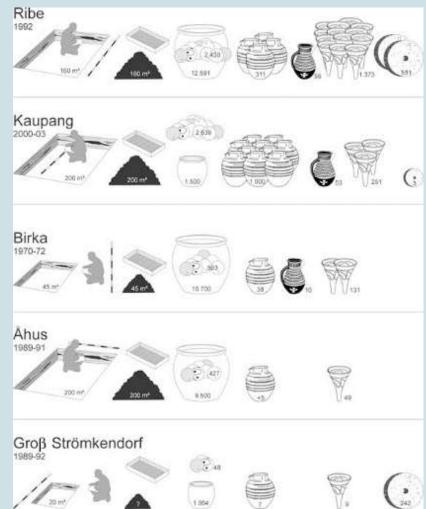


Badorf ware pottery in Scandinavia and the Baltic Sea area (Brorsson 2010, fig. 20)



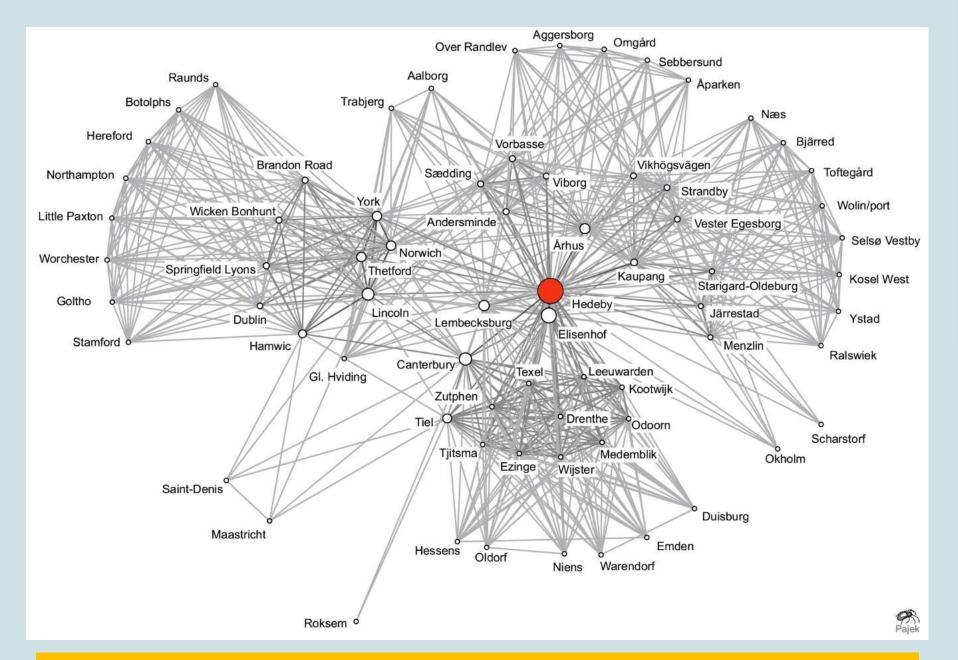
Hedeby: selection of imported Badorf ware vessel sherds





#### Søren Sindbæk's synoptic comparison of excavation sizes and selected imports (2008):

"1. Ceramic sherds (domestic & imported), 2. Glass beads, 3. Sherds of glass vessels, 4. Sherds of Badorf-ware, 5. Sherds of Tating-ware, 6 Fragments of Mayen-basalt quern-stones. The size of the symbol to the left corresponds to the volume of soil or finds. For the imports to the right, each repetition denotes 100 fragments, except for quernstone: 500 fragments. Small symbols indicate less than five finds in a site."

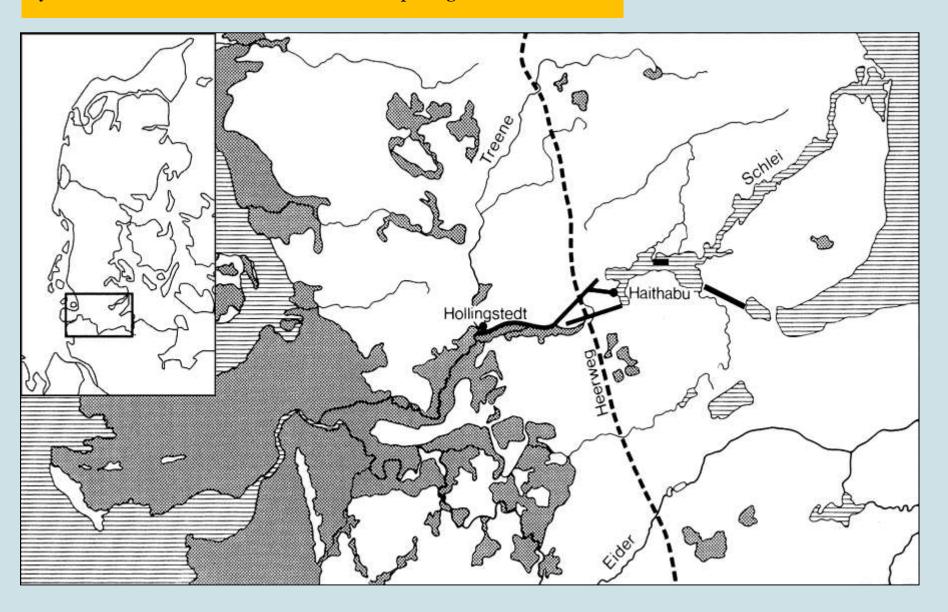


Network representation of the associations of ten different types of pottery vessels in 152 settlement-site Assemblages of the 10th c. in the North Sea and Baltic sea areas (Sindbæk 2012)



# The significance of the Danevirke

symbolic border – control of traffic – ease of passage between the seas

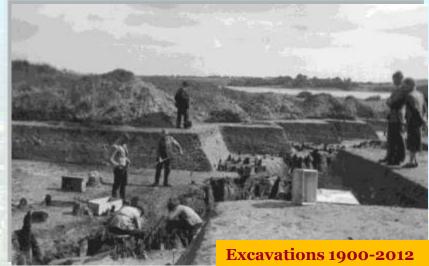


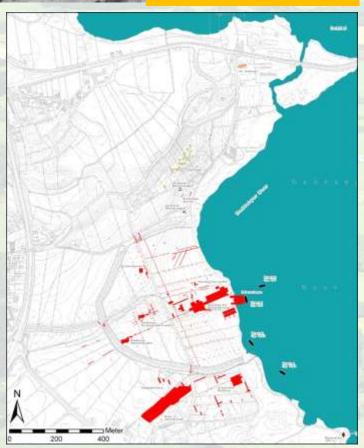


Attested early medieval names for *Hedeby* 













Hedeby with all excavation areas since 1900

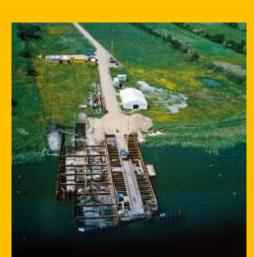
# 5 different phases of research strategies:

1900-21: concept of small trial trenches to verify the place's character

**1930-39**: large scale settlement excavations developed from a trial trench

1962-69: continuation of large scale settlement and cemetery excavations

1979-1980: harbour excavation and ship salvage







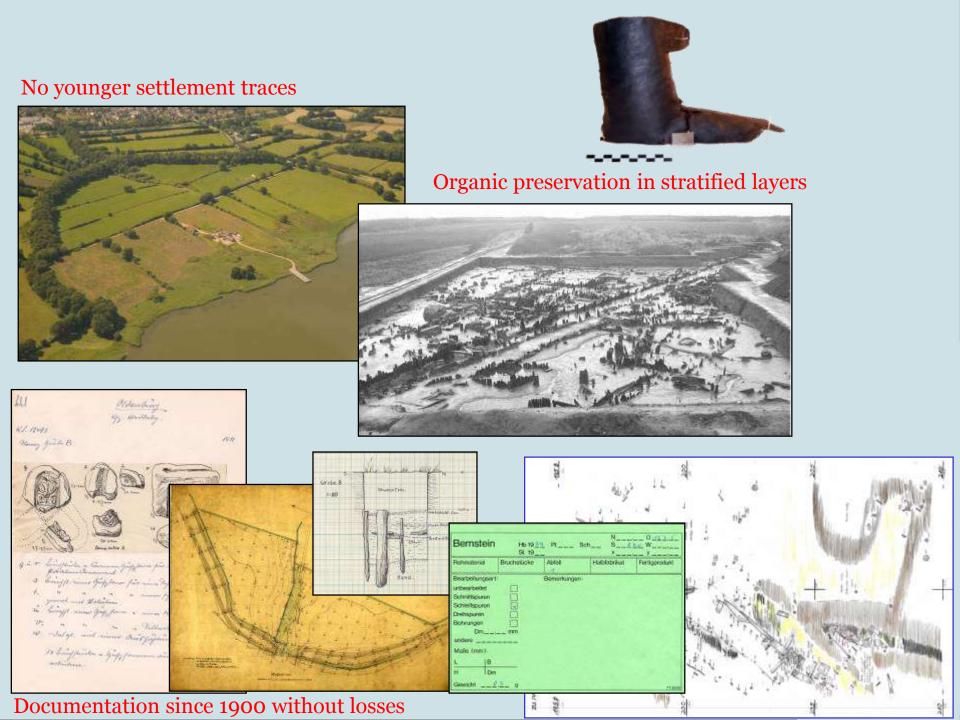


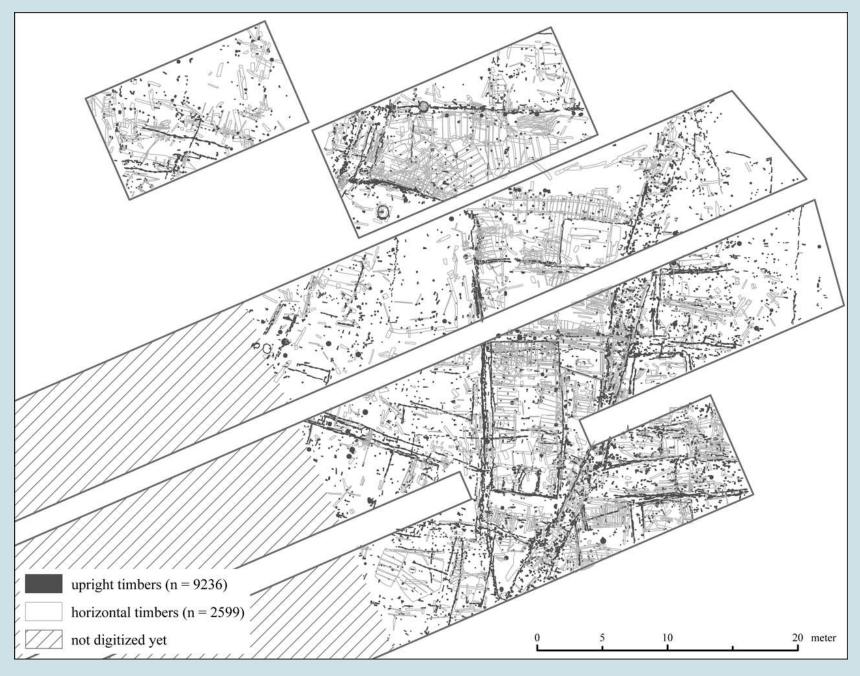


**2002 onwards:** systematic prospections with selective small scale excavations

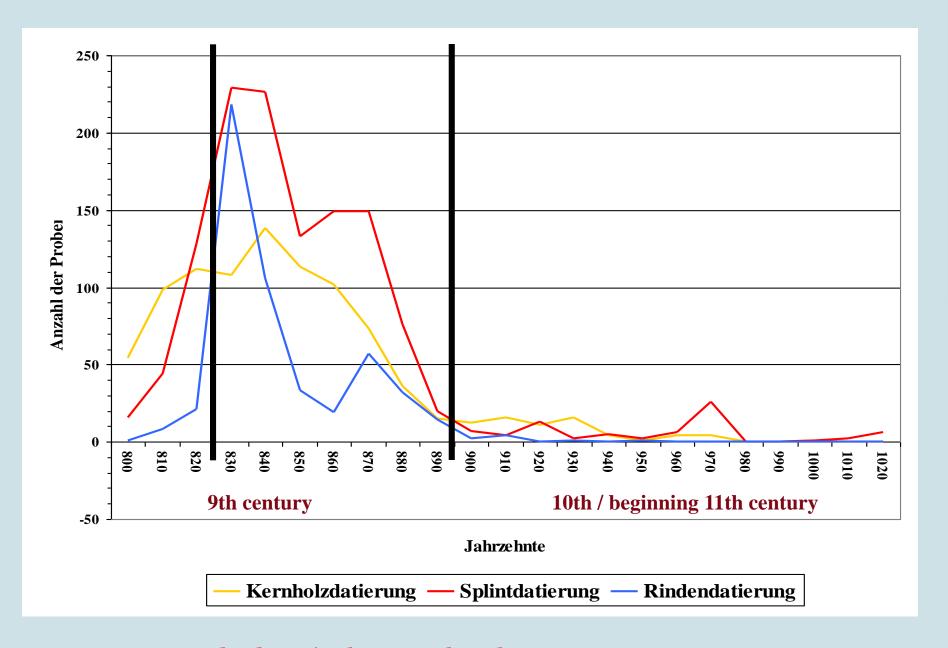
#### Facts and numbers from over a hundred years of Hedeby research

```
1.189 excavation areas (GIS)
32.831,6 sqm excavated areas (GIS)
1.297 burials, biritual (Arents/Eisenschmidt 2010)
44.000 constructive timbers from the settlement (Schultze 2008)
2.044 constructive timbers resp. 1.641 post holes from the harbour (Kalmring 2010)
c. 117.283 pottery sherds (only 1962–69: 2.160,104 kg) handmade and Baltic ware (Hahn
   1977)
6.401 sherds(171,7 kg) of imported pottery (Janssen 1987)
c. 1.500 pottery fragments (c. 200 kg) from the harbour (Lüdtke 2013)
3.428 objects (540 kg) of soapstone (Resi 1979)
5.948 fragments of mill stones (1.274 kg) (Schön 1995)
19.740 or c. 350 kg whetstones (Resi 1990)
3,4 tons of iron slags (Westphalen 1989)
12.576 metalobjects from systematic metaldetecting (Hilberg 2009)
8.849 glassobjects (Steppuhn 1998)
288.000 deer's antlers (Ulbricht 1978)
ca. 420.000 bones of domestic animals from the harbour (Heinrich 2006)
1.999 wild mammals from the settlement and the harbour (Reichstein 1991)
726 hand laid-up rests of fishes from the harbour (Heinrich 2006)
c. 17.000 sieved rests of fishes from one quadrant of the harbour (Schmölcke/Heinrich
   2006)
```

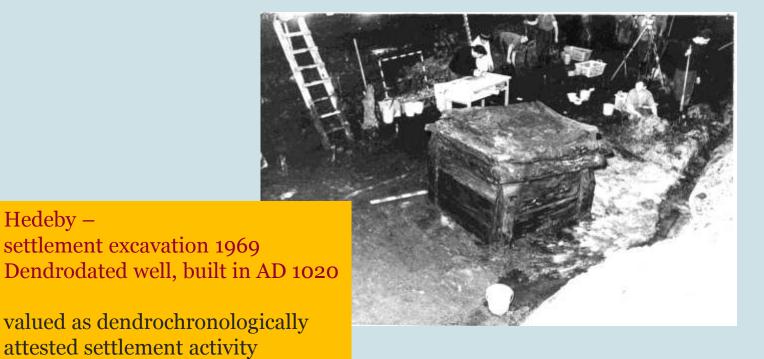


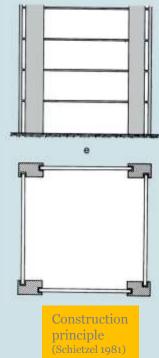


Development oft the central settlement area: 830ies AD (Schultze 2007)



Dendrodates in the central settlement area (Schultze 2007)

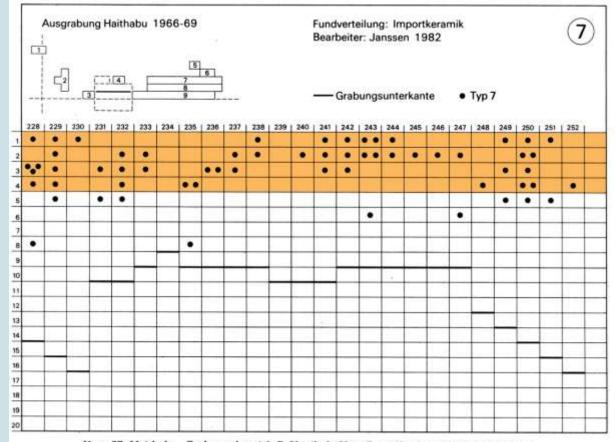






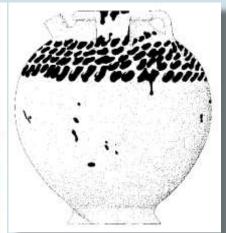
Hedeby -

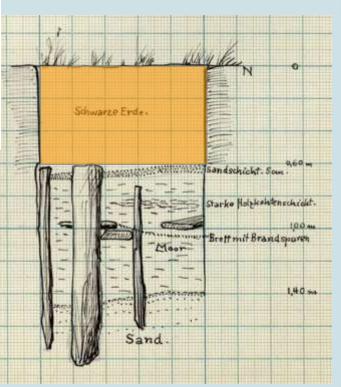
Stratigraphical situation, excavation 1969

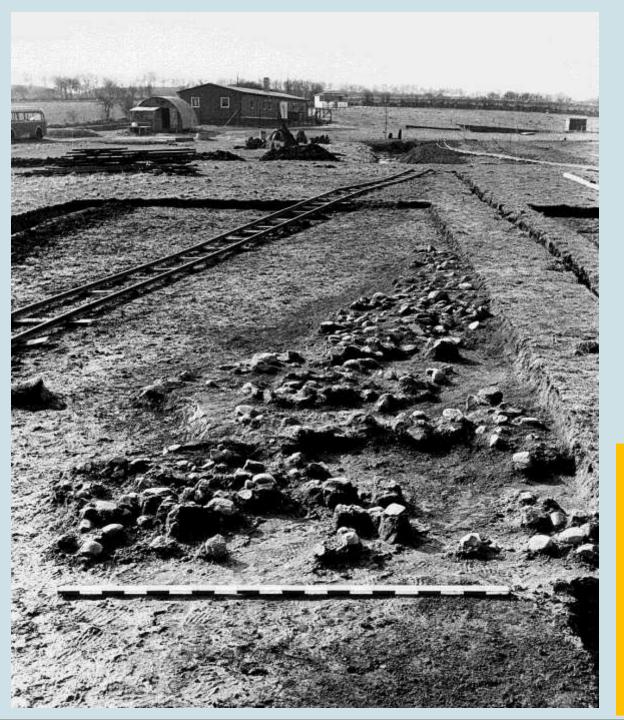


Kart. 27. Haithabu, Grabungsbereich 7. Vertikale Verteilung der Importkeramik. Typ 7.

Layers of the 10th and 11th centuries are not preserved in wood







Hedeby 1967, central excavation area

Irregular and apparently ploughed-up packages of stones immediately underneath the surface

Trade, craft-production and the hinterland

Bulk commodities from the continent:

Lava quernstones



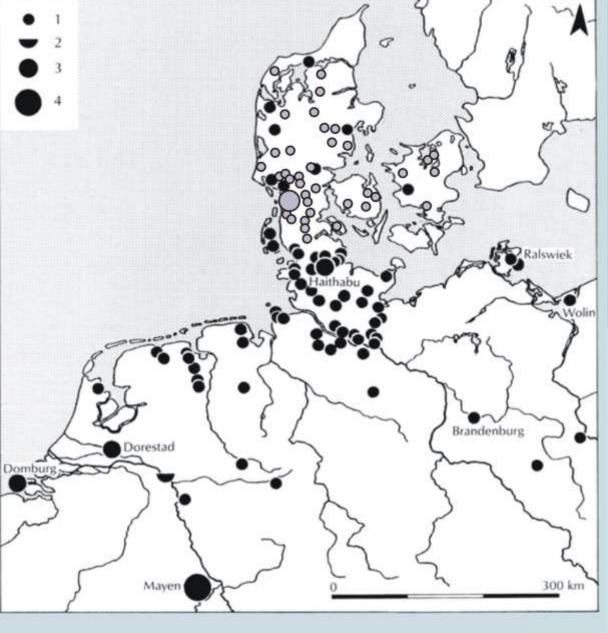


Abb. 18. Verbreitung von Mahlsteinen aus Mayener Basaltlava. 1 - Fundorte; 2 - Fund einer Schiffsladung; 3 - Fundort mit Halbfabrikaten; 4 - Materialvorkommen und Steinbruchbetrieb. Umgezeichnet nach Gabriel. 1991b, mit Ergänzungen.

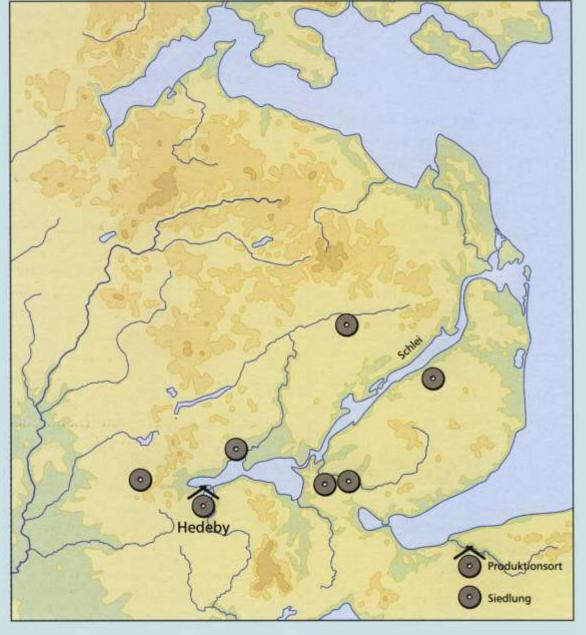


Abb. 18: Wikingerzeitliche Fundstellen von Mahlsteinen aus vulkanischem Tuff im Umland von Hedeby (nach HANSEN 1999). Vgl. Liste 2, S. 41.

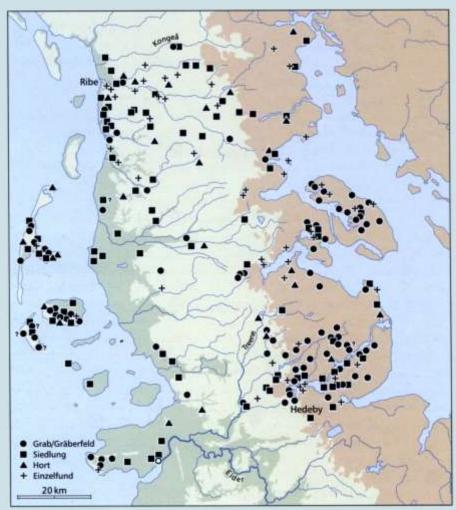
Interaction with the surrounding hinterland

#### Interaction with the *hinterland*

Diet of Hedeby 's inhabitants: dominance of fish and domestic animals







Viking period find spots between Kongeå and Eider (Eisenschmidt 1998)



Mid-11th c. civitates and their catchment territories (Randsborg 1980)



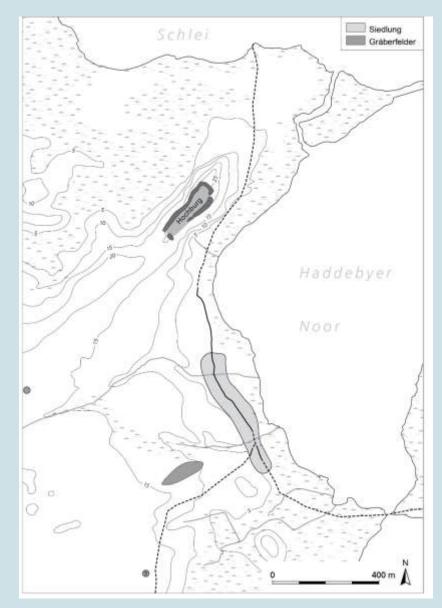
# 804 & 808:

The Danish king Godfrid gathered his retinue and fleet at *Sliesthorp*, after the destruction of the emporium Reric he took the merchants on his ships and sailed to *Sliesthorp* 



# 1050 & 1066:

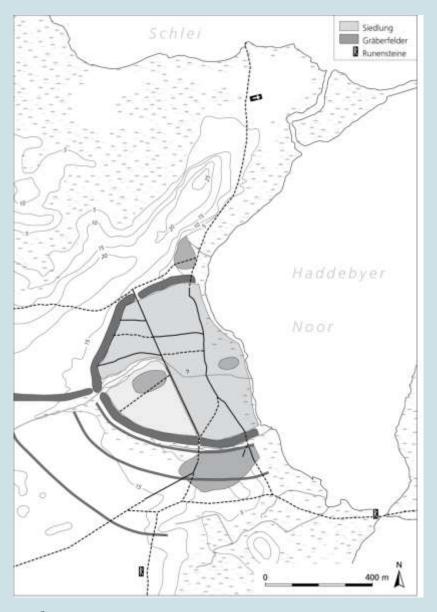
Sliaswig plundered by king Harald Hardråde and finally destroyed by pagan Abodrits and Wagrians



Siedlung Gräberfelder Noor 400 m N

8th century

9th century





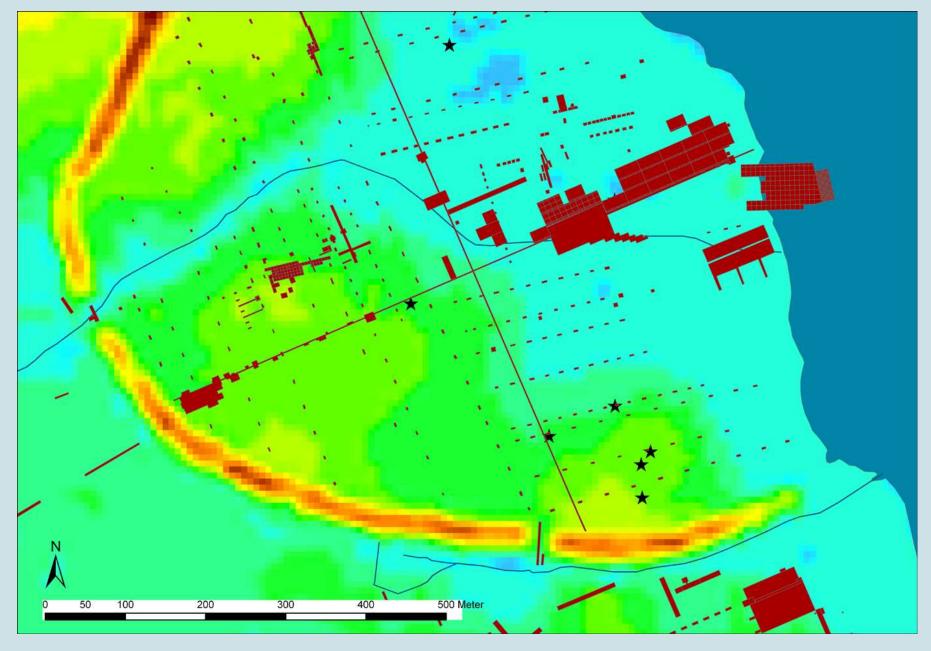
10th century

11th century

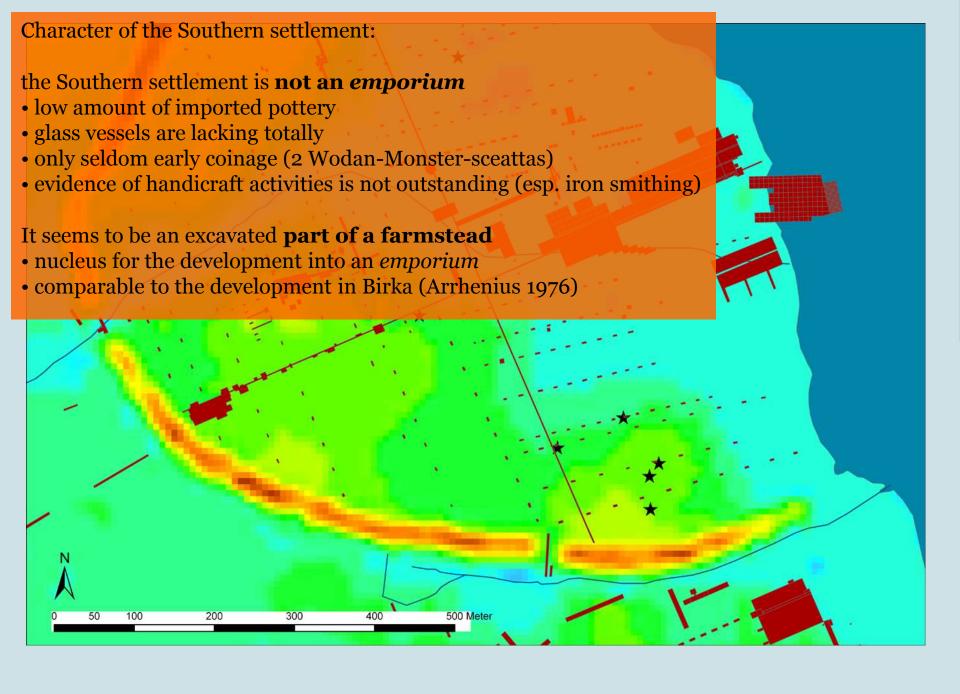
Hedeby's development: from farmstead to emporium?



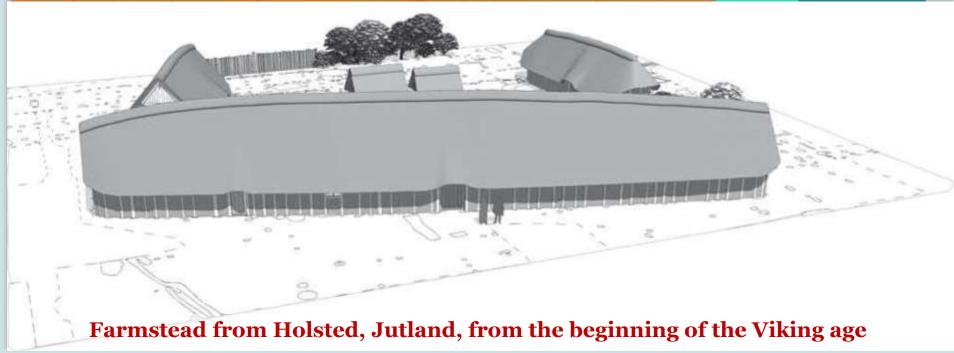
Oldest horizon from metaldetecting: Settlement start in the younger Germanic Iron-Age

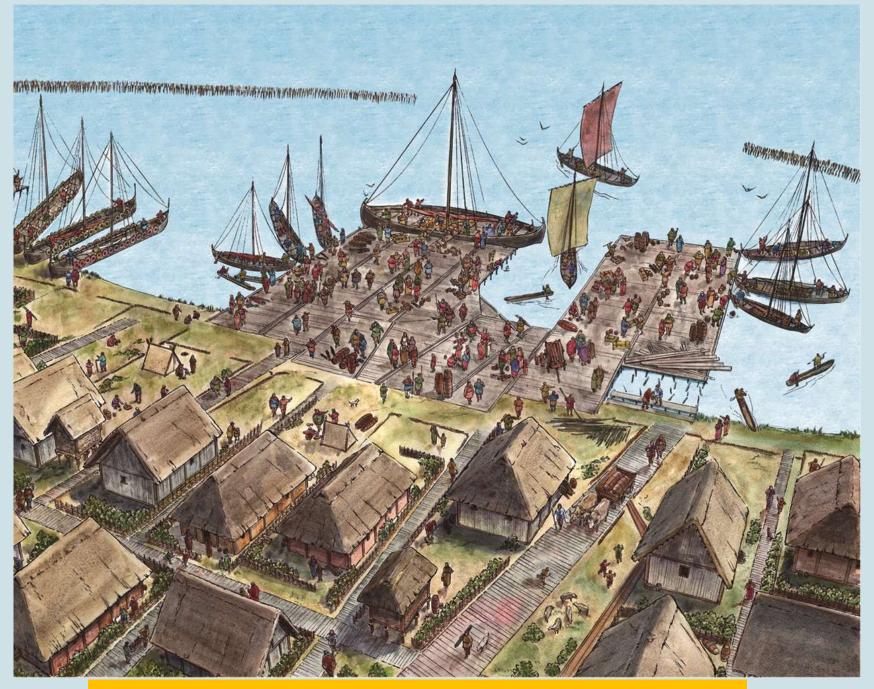


Early finds and topography









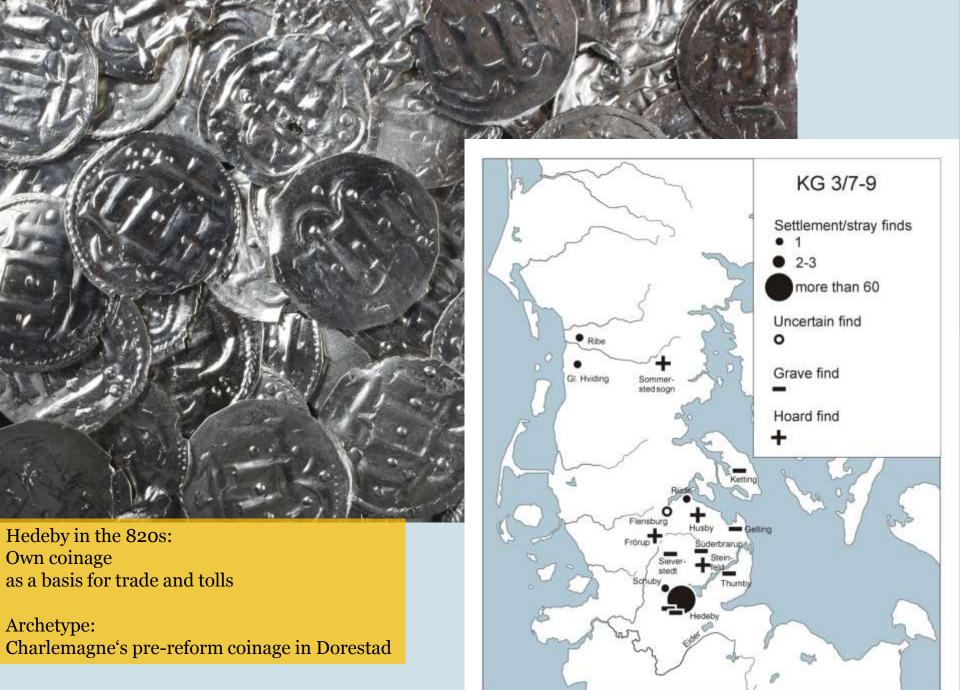
Hedeby's harbour as one of the most important structural elements

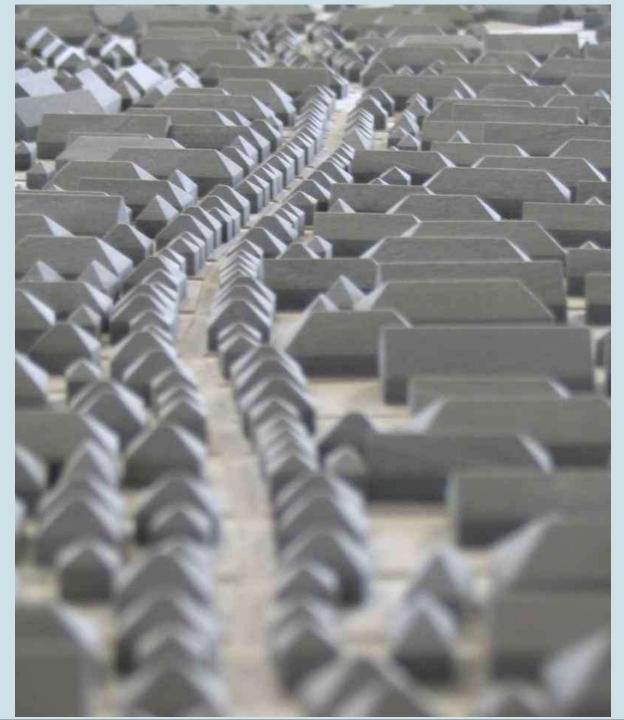


Hedeby: Reconstructed harbour jetty, built in the winter AD 885/6, space 385 sqm



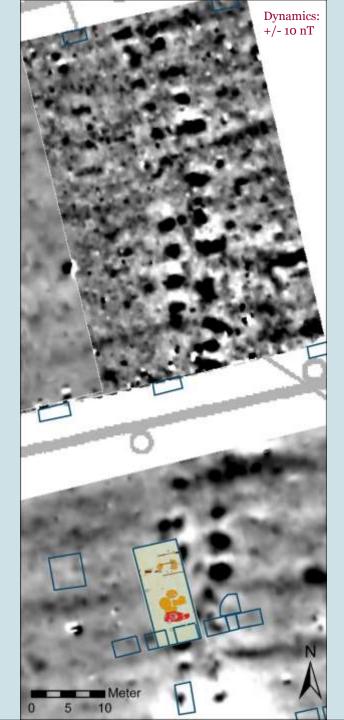
The Carolingian influence: 9th century continental pseudo-coinbrooches found in Hedeby

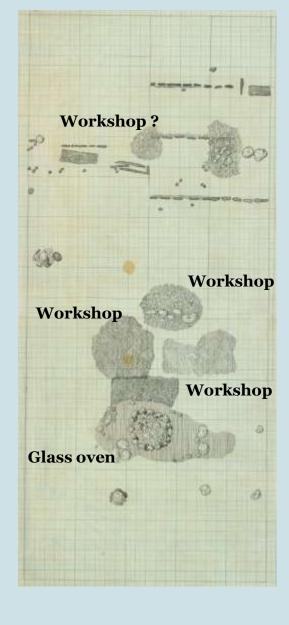






Reconstruction of one of the main streets through the settlement (seen from the south)





Relation between the excavation from 1913 and the geophysician survey from 2002





Volgabulgarian Imitation Samanids, Ismaʻil ibn Ahmad 1. quarter 10. cent. AD









871-872 AD Abbasids al-Mu'tamid Samarra

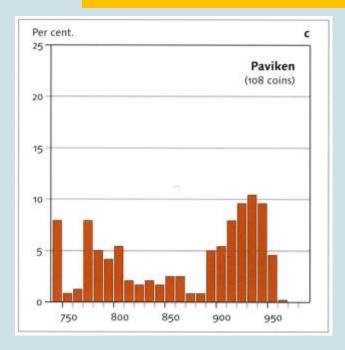
900-901 AD Samanids Ismaʻil ibn Ahmad ash-Shâsh

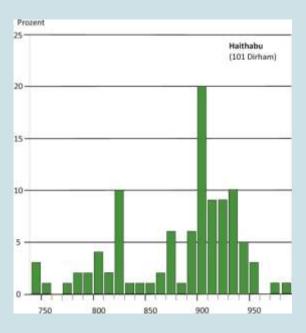
938-939 AD Samanids Nasr ibn Ahmad Samarqand

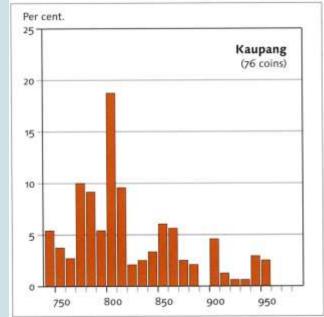
907-908 AD Samanids Ahmad ibn Ismaʻil ash-Shâsh

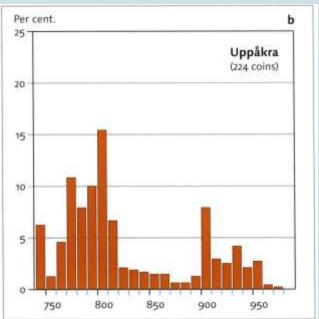
Hedeby, metaldetector prospections: high increase of Islamic dirhams

# Islamic dirham from four Scandinavian find places



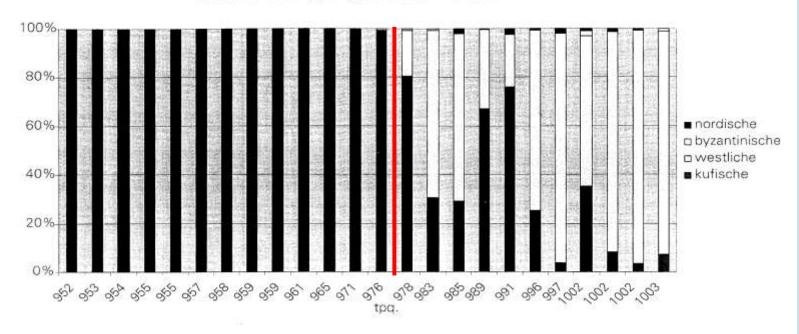






(Blackburn 2007)

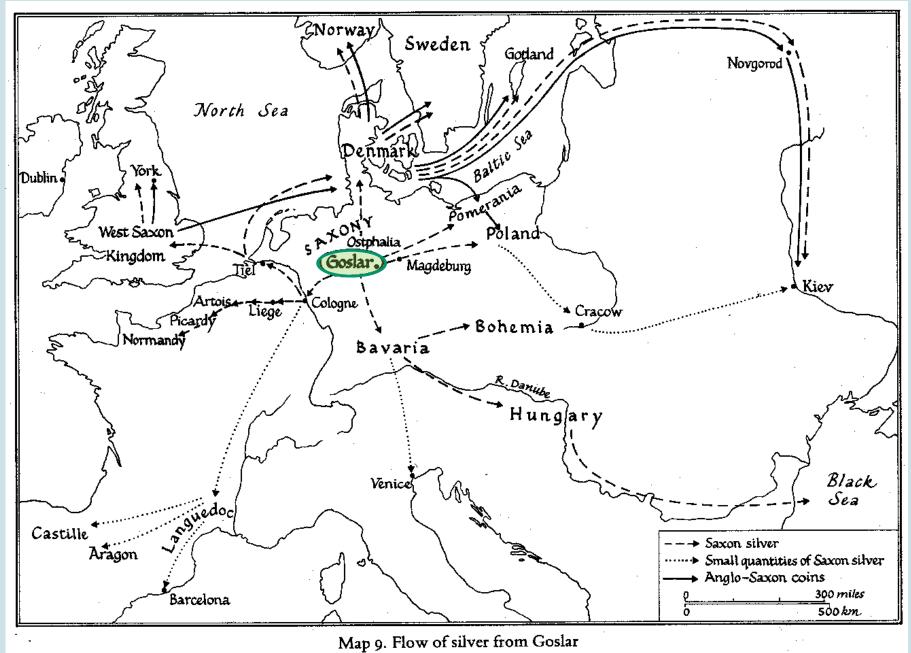




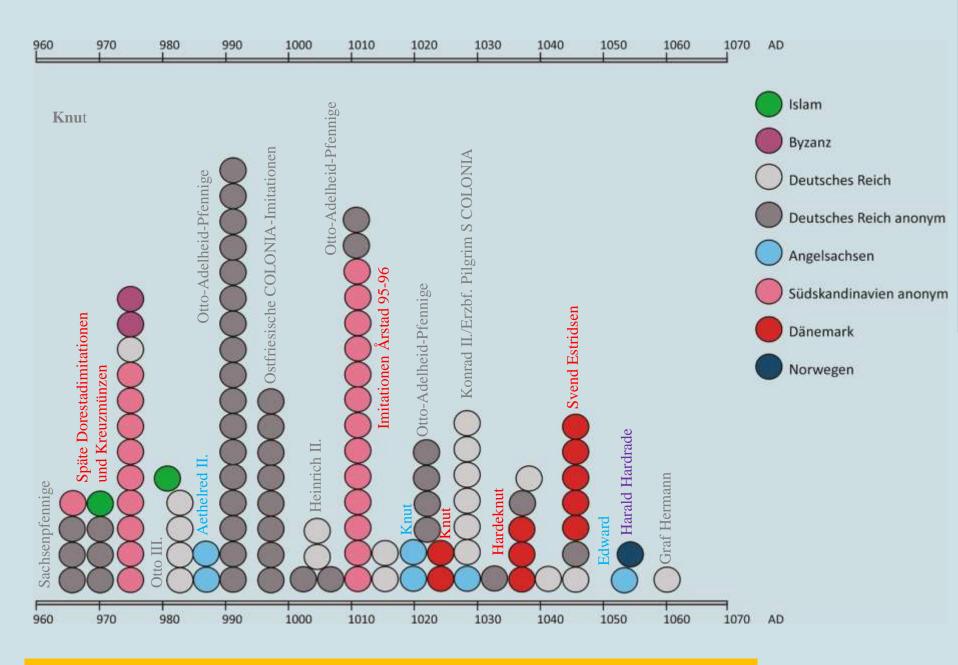


# The disappearance of the Samanid dirham

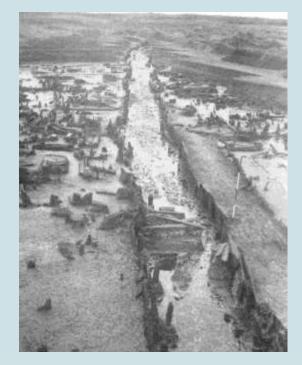
Hoard from Ocksarve, Gotland, more than 5 kg of silver, deposited after 999 AD (416 coins: 393 Ottonian deniers, 5 Islamic dirham)



Hedeby: Frisian copies of Cologne pennies (Häv. 29), unknown mint, end of 10th cent. AD

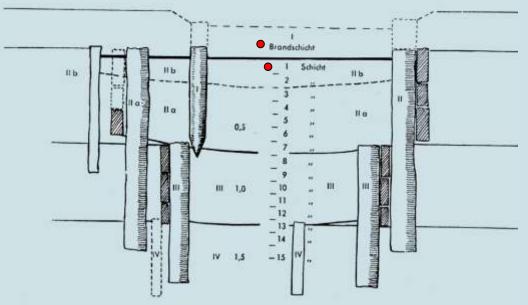


Hedeby: late coin finds from metaldetecting and the excavation 2005-10 (= 105 coins)





Unfinished casting of a sword scabbard sheath of brass, Ringerike style (990/1000-1050/75)

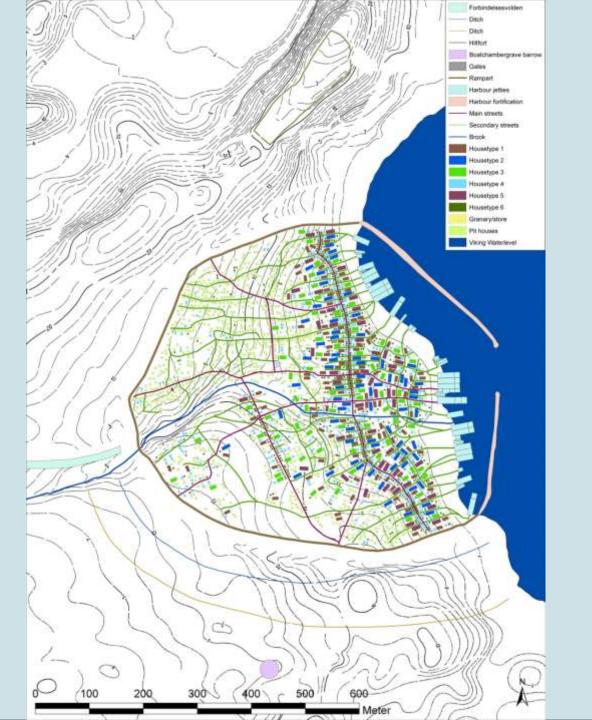




Denar, Lower Lotharingia/Frisia, mint Dokkum Bruno III., c. 1050

Late Viking period single finds from the old excavations in Hedeby

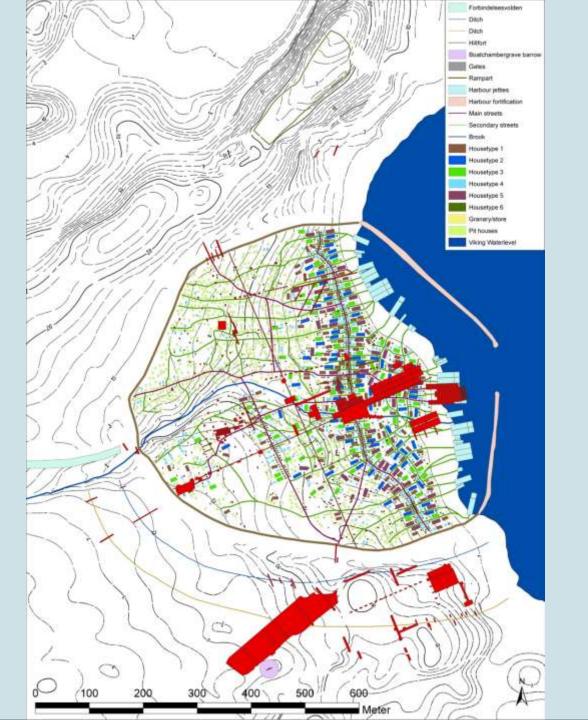
Abbildung 19. Schematischer Schnitt durch das Bachbett in den Flächen M und N 1 und 2.



GIS-based model of all excavated and assumed settlement features

# Hedeby's biography:

Revealing its development with distinct phases and different interferences during its existence from the 7th to the middle oft the 11th century AD



GIS-based model of all excavated and assumed settlement features

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# Forschungsprojekt HAITHABU

