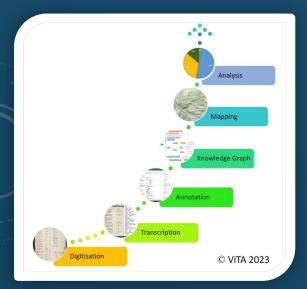


Insight into the ViTA-project — Mapping medieval property and agricultural levies in late medieval Tyrol — for application of CRMsoc/CRM++



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KEY FACTS

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- Project ViTA: Manorial (economic) Networks in the Medieval Tyrol: Mapping and Visualisation
- Feb. 2023 Feb. 2025
- Funding sponsor: Austrian Academy of Sciences
- Cooperation of the Department of Linguistics Department & the department of History at the University of Innsbruck, Austria

Project Team

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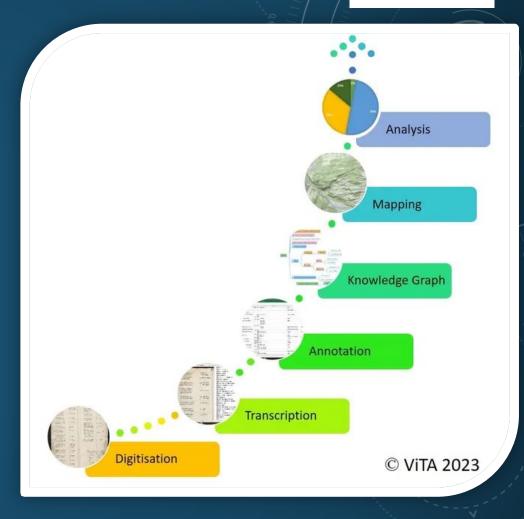
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Academia

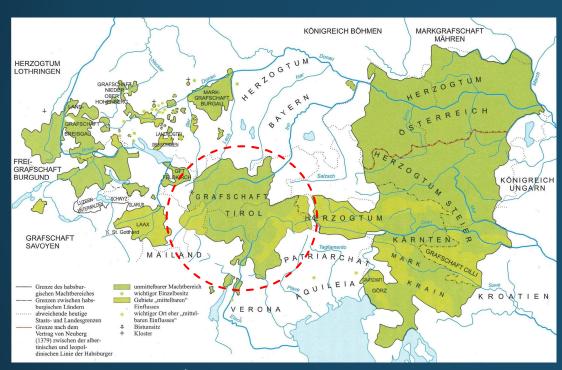


WEBSITE

https://www.uibk.ac.at/en/projects/vita/

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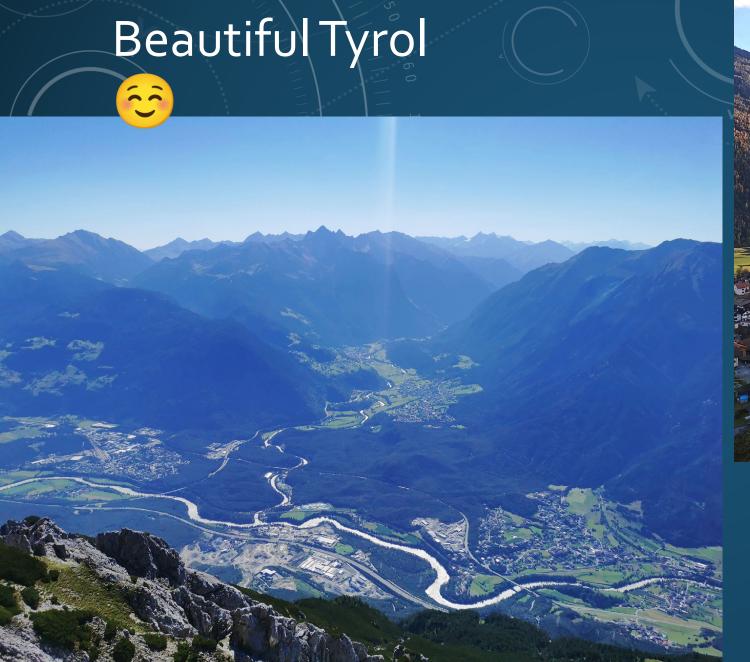
INVESTIGATION AREA



14.-15.th Century: County of Tyrol

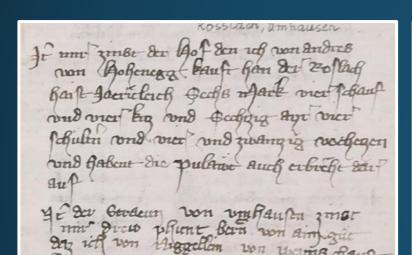


Today: Tyrol (Austria), South Tyrol (Italy)
EUREGIO (transnational co-operation between
Austria and Italy)

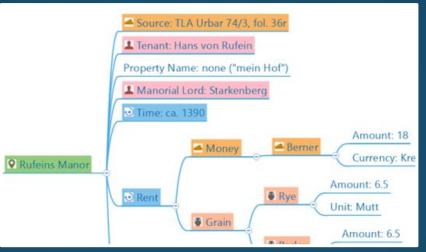




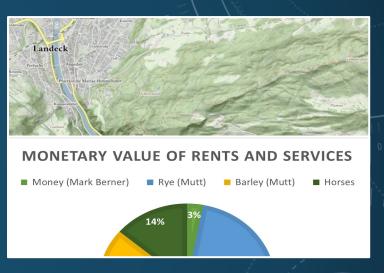
MAIN OBJECTIVES



Digitisation & transcription of medieval documents: two estate registers



Information extraction & semantic representation of the tyrolean manorial network



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Visualisation



I. DIGITISATION

- Digitisation made by the Tyrolean Regional Archives
- Some minor manual adjustments and corrections
- Transfer to Transkribus for the following transcription
- Layout analysis and structural corrections

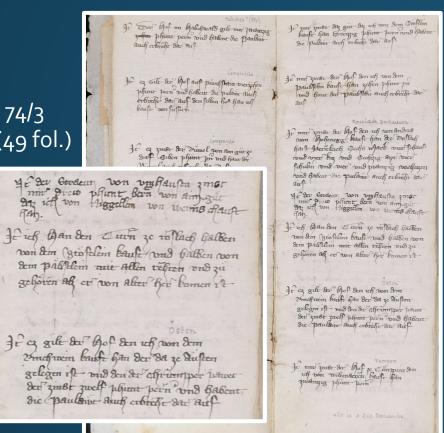






MAIN SOURCES

TLA, Urbar 74/3 approx. 1390 (49 fol.)





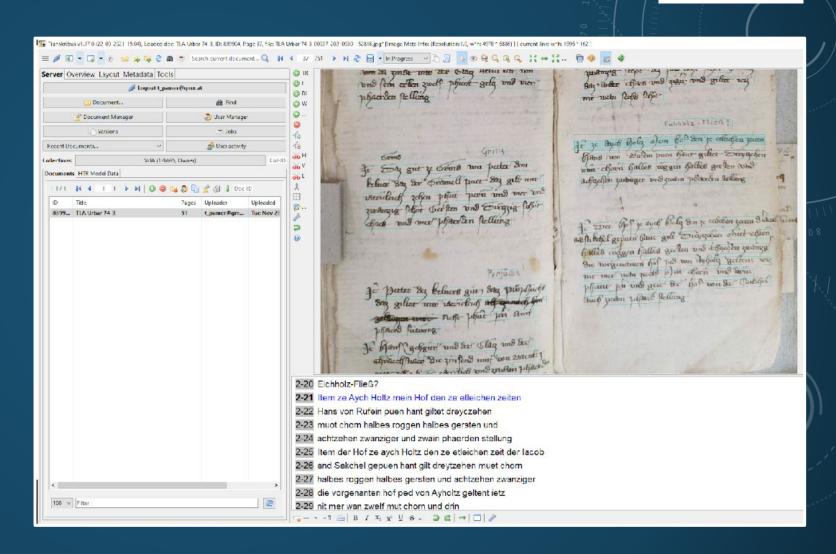
Estate registers represent records of the ownership of farms and estates, contain services and levies claimed by the landlords and give an insight into manorial structures and agricultural resources.



II. TRANSCRIPTION

- Manual transcription of the documents using
 Transkribus
- Besides: generating ground truth for a HTR-Model

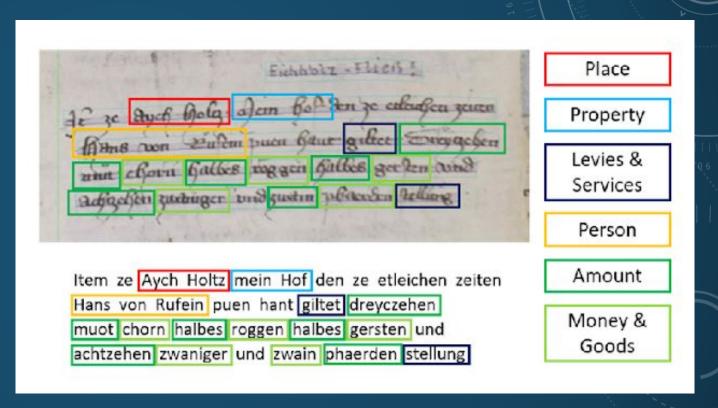






III. SEMANTIC ANNOTATION & INFORMATION EXTRACTION

- Annotation of specific entities within the historical text to extract the annotated entities
- Chosen entities for the estate registers are place, person, date (if existing), amount, service and levy
- Extracted data will be structured and imported into a database



Current tagset: place, possession, person, transaction, social_status, granted_rights*, levies_type, amount, measuring, goods, currency, animals, services, date, etc.

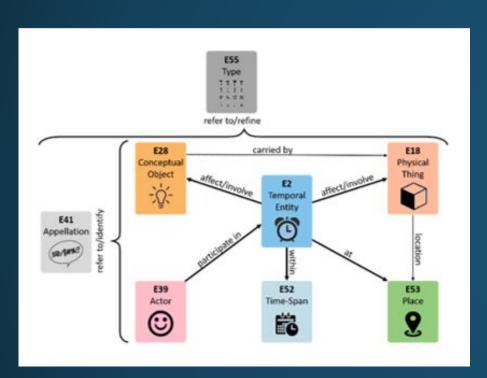
Obersant	vita_poss_000002	Hof	pulåwt	vita_pers_000015		erbreht	gilt	zway drizzig phunt perner	zway drizzig	phunt perner
Nider Sant	vita_poss_000003	Hof	pulāwt	vita_pers_000016		erbreht	zinst	funifzig phunt	funifzig	phunt
Nider Sant	vita_poss_000003	Hof					zinst	ain phunt für geding	ain	phunt
Nider Sant	vita_poss_000003	Hof					zinst	ain und zwainzg crauczer für smalcz	ain und zwainzg	cråuczer
Nider Sant	vita_poss_000003	Hof					zinst	ain schaaf	ain	schaaf
Perchhof	vita_poss_000005	Hof	Perchtold von Hohenegg	vita_pers_000017	kauf					
Perchhof	vita_poss_000005	Hof	pulawt	vita_pers_000101		erbreht	gilt	drizzig phunt	drizzig	phunt
			Perchtold von Hohenegg	vita_pers_000101			aus rihten	zehen phunt	zehen	phunt
hof im Neslach	vita_poss_000006	Hof	Maerclin	vita_pers_000018	kauft				ains und zwainzg	phunt perner
hof im Neslach	vita_poss_000006	Hof	pulåwt	vita_pers_000152		erbreht	gilt	ains und zwainzg phunt perner	ains und zwainzg	phunt perner
Mitterhof	vita_poss_000007	Hof	pulāwt	vita_pers_000019		erbreht	gilt	vierczig phunt perner	vierczig	phunt perner
Mitterhof	vita_poss_000007	Hof	Rudigeren von Zwiselstair	vita_pers_000361	kauft					
hof im Habchwald	vita_poss_000008	Hof	paulawt	vita_pers_000020		erbreht	gilt	zwainzig zehen phunt perner	zwainzig zehen	phunt perner
hof auf Pürchstain	vita_poss_000009	Hof	pulāwt	vita_pers_000021		erbreht	gilt	vierzehen phunt perner	vierzehen	phunt perner
hof auf Pürchstain	vita_poss_000009	Hof	Fűssern	vita_pers_000060	kauft					
gut ze dorf	vita_poss_000010	Hof	Růmel	vita_pers_000225		erbreht	zinst	siben phunt perner	siben	phunt perner
hof ze Winkel	vita_poss_000011	Hof	pulåwt	vita_pers_000022		erbreht	zinst	sechs mark	sechs	mark
hof ze Winkel	vita_poss_000011	Hof					zinst	zwen kastran	zwen	kastran

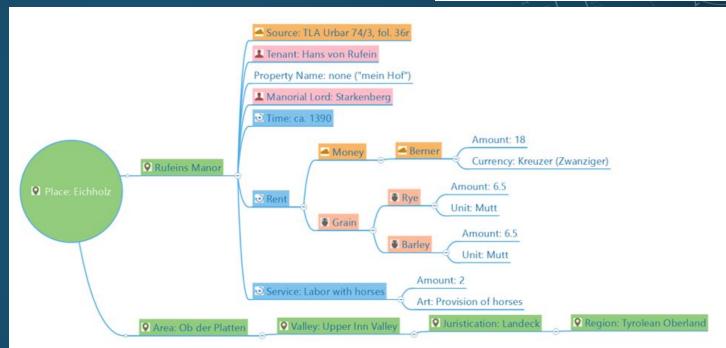
Screenshot of the current table used for manual annotation (TLA Urb. 74/3).



IV. SEMANTIC REPRESENTATION







CIDOC CRM and necessary concepts of CIDOC CRM extensions (https://cidoc-crm.org/crmsoc/) are used to model the information extracted from the sources

As tabular data or directly embedded through a SPARQL-Endpoint, this data will be integrated into a GIS and for public visualisation into a WebGIS

TAGS AND ATTRIBUTES MAPPING: CHALLENGES AND POSSIBILITIES

E21_Person

- Name (E41_appelation): first name, last name (unstable, unclear boundaries)
- **Gender** (E55_type(?)): m, f
- Origin (E₅₃_place): impossible to pin down whether the information refers to residence, family origin or something else. It forms part of a person's name for specification. E.g. *Hans der smit ab der Mills* (Hanns the smith from Mils), *Haincz von Faflaer* (Heinz von Pfafflar)
- Occupation: profession or function. Smid ab der Milles (smith from Mils), Phrarrer von Maerlingen (Priest from Merling), Peter der kelner (Peter the cellarer). The profession is rather bound to the person while the function of a person may depend on the context within a person is mentioned.
- Social status: in Urb. 74/3 only "serf" is explicit mentioned, but nobleman, clergy, burgess, and similar are also possible.
- Family relations: sometimes a person is not mentioned by its own proper name (indirectly), but in his/her relation to someone else. E.g. Hainczen aiden pei dem pach (male relative by marriage from Heinz who lives near the stream). Further, family relations are expressed using generational difference: Hans der alt Aøster von Umbst (Hans the Old Auster from Imst), Hanslin der jøng Aøster (Hans the young/younger Auster)

Possessions (E72_legal object, E70_thing (?))

The estate register TLA Urb. 74/3 mentions landed property and other types of possessions in the regions, districts and settlements ruled by the lords of Starkenberg.

In addition, the text provides information regarding the claimed levies and specific rights granted by the landlord (e.g. law of succession)

These could be defined as... or E55_type:

- Land and agricultural parcels: field, apline pasture, garden, plot of land, meadow, farm and vineyard E27_site, E26_physical feature?
- Buildings: Farm, House, Mill, Tower E26_physical feature?
- Services: transport, journey E9_move, E7_activity, E89_propositional object?
- Money: tithe, or other types of (debth) payment E3o_Right, E89_propositional object?
- Person(s): serf E21_person?
- Rights: free passage, grazing rights (to let his life stock feed in a specific field), and so on—E3o_right?

Transactions (E7_Activity, E5_Event (?))

Events related to the possessions that happened previous to the E65_creation of the E31_document estate register.

- Purchase: the landlord has bought a possession E96_purchase
- Transfer of custody/ownership: the person in charge of a possession dies or was unable to fulfil the obligation so the possession returns to the land lord. Exchange of possessions, granting a possession to someone E1o_transfer of custody?

Granted rights (E3o_right (?))

These are separeted in two categories:

- possession_granted_rights: strictly bound to the landed property, and refer to the kind of use permissions the beneficiary/vassal has. E.g. Hereditary fief, loan, lease, or similar.
- granted_rights: other benefits that the landlord grants. Such as permission to pay less or some kind
 of tax reduction, grain, money given to a monastery or church, etc.

Levies_type (E28_conceptual object (?))

This class comprises the different payments/taxes types. Eventhough they are usually related to the type of possession, there are also "personal taxes" not related to any possession al all.

E55_type (?)

- Levies to the lord of the manor
- Loan
- Alms
- Tithe
- Laudemium

Levies (E70_thing, E28_conceptual object, E72_legal object, E7_activity (?))

All the payments listed in the estate register. Appart from annotating the amount, they are classified in E55_type

- Money
- Service: working days, transport, horse stabling
- Lifestock
- Goods: grain, meat, food, wine



WEBSITE

https://www.uibk.ac.at/en/projects/vita/

THANK YOU FOR YOUR ATTENTION

