

# e-Infrastructures Austria

## Impulsreferat: Open Access und Open Research Data

3. OANA-Gesamtveranstaltung, Palais Harrach  
1. Juni 2016



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# Das Projekt e-Infrastructures Austria

## Projektziele

- **Aufbau von Dokumentenservern** bei allen Partnereinrichtungen
- Erarbeitung eines **strategischen Konzepts für Forschungsdaten-management** in Österreich
- Aufbau eines **Wissensnetzwerks für den Umgang mit digitalen Ressourcen**

## Projektlaufzeit

- Jänner 2014 - Dezember 2016

# Warum Research Data Management?

## Forschungsgelder aus Europa:

- H2020 Policy: Open Research Data wird ab 2017 im gesamten H2020 Programm Default
- European Open Science Cloud

## Forschungsgelder aus Österreich:

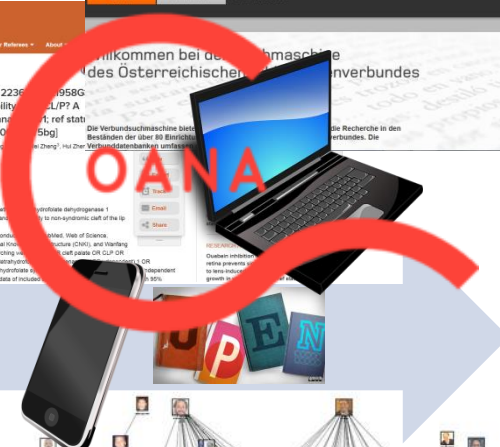
- FWF Policy: Open Research Data by Default
- FFG: Open Research Data Policy in Planung

# Wissenschaftskommunikation im Wandel

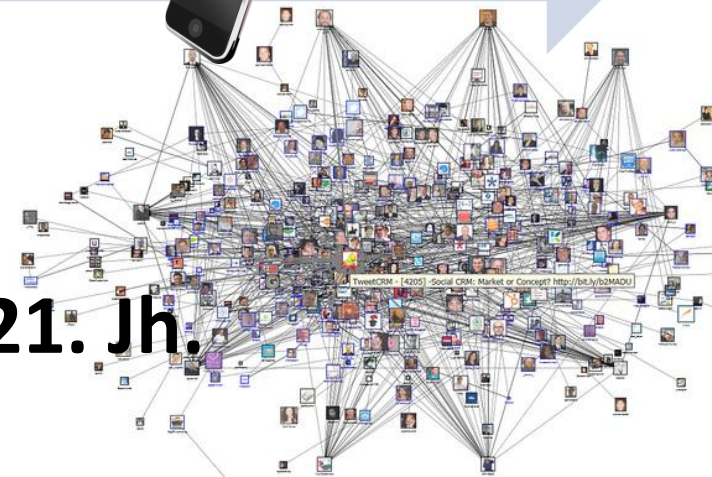
19./20.Jh.



Ende 20. Jh.: das Internet



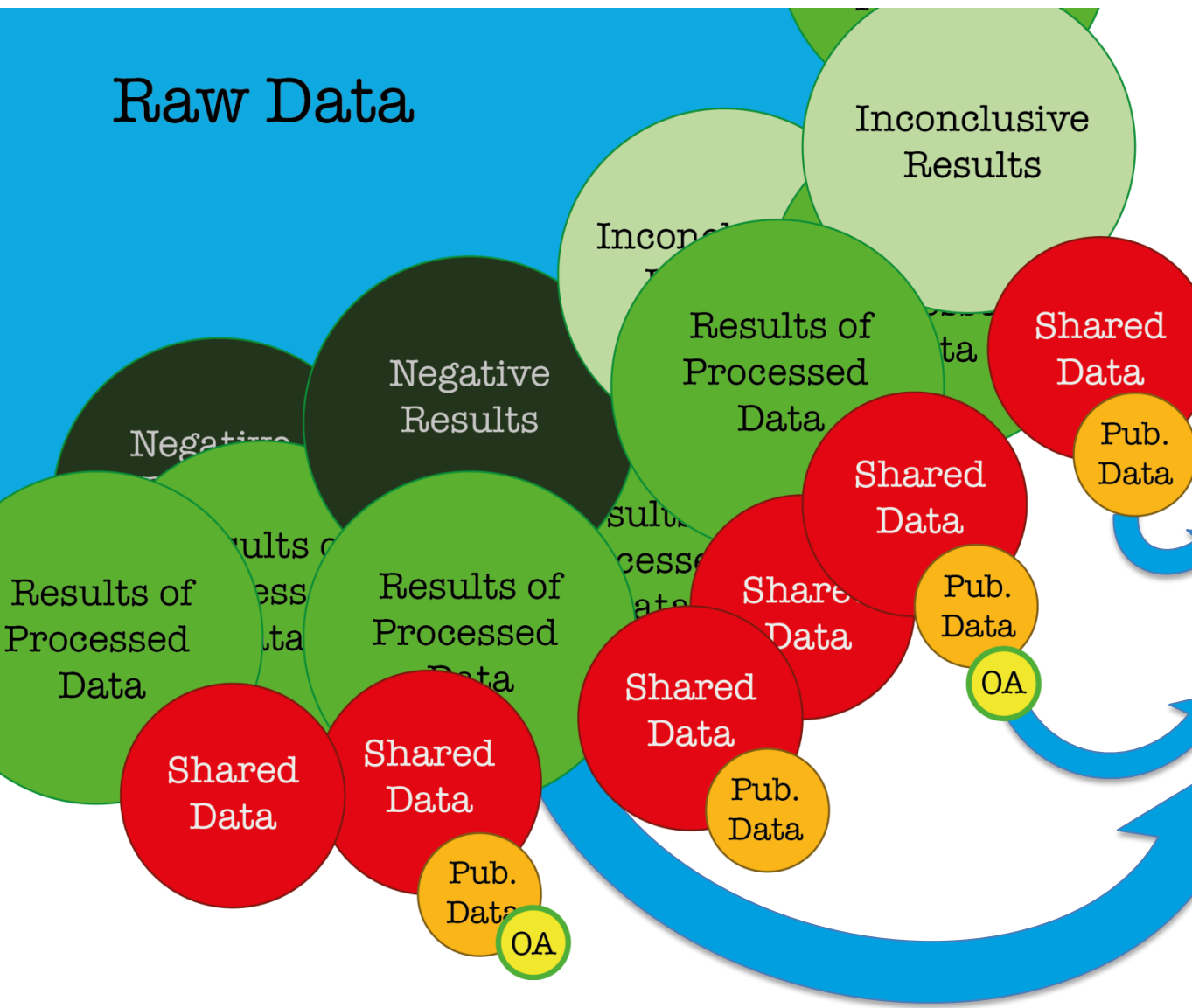
21. Jh.



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# Forschungsdaten



REVIEW

### Viscoelastic Properties of Hyaluronan in Physiological Conditions [version 1; referees: 2 approved]

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Author affiliations  
Grant information

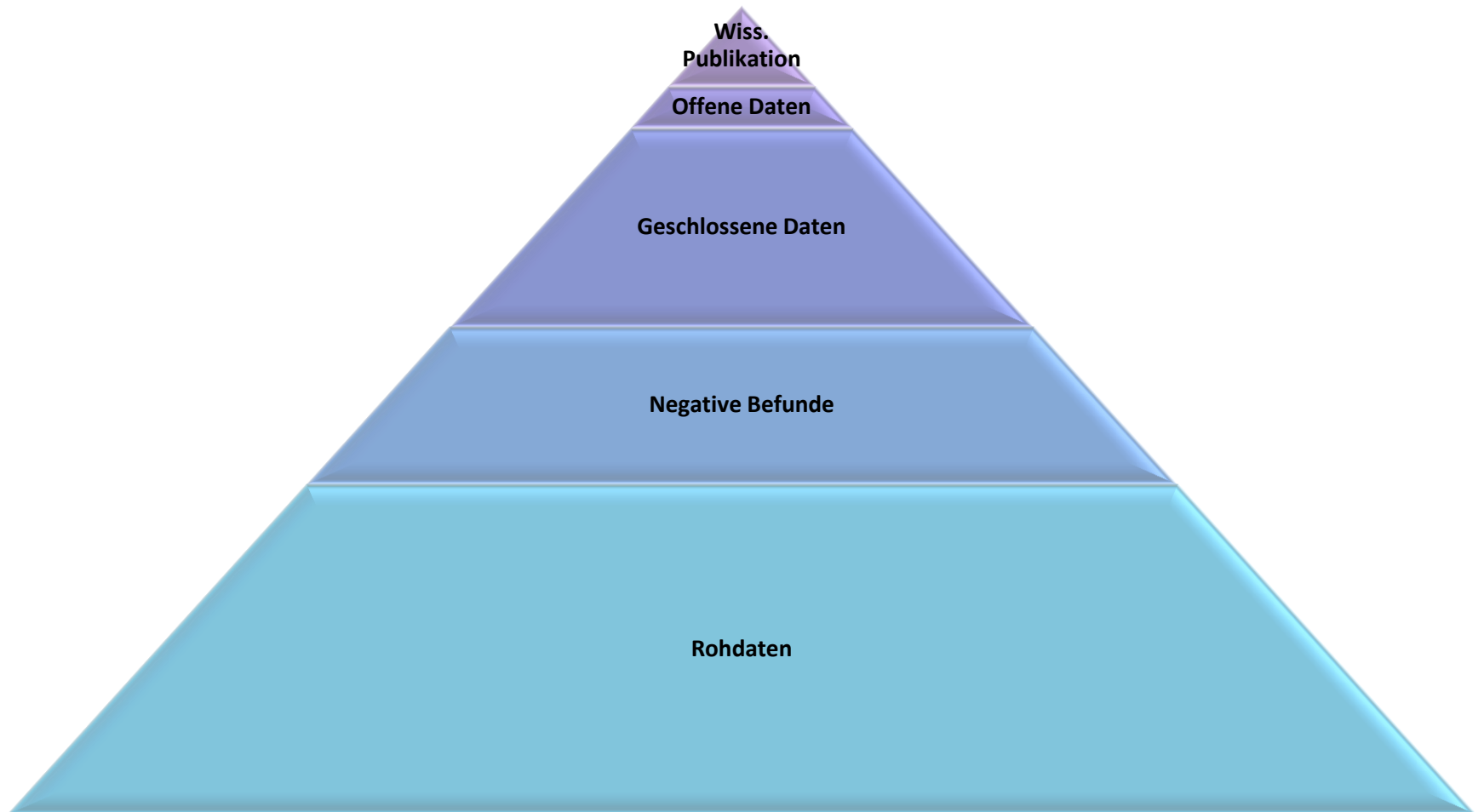
This article is included in the **Fascia** research channel.

#### Abstract

Hyaluronan (HA) is a high **molecular** weight glycosaminoglycan of the extracellular matrix which is particularly abundant in soft connective tissues. Solutions of HA can be non-Newtonian flow properties. These properties affect the movement of HA-containing fluids within and underlying the deep fascia. Changes in the concentration, **molecular** weight, and covalent modification of HA in inflammatory conditions, as well as changes in binding with other macromolecules, can have dramatic effects on the sliding movement of **molecular** weight and the semi-flexible chain of HA are key factors leading to the formation of dilute solutions, and real HA solutions show additional nonideality and greatly increase due to mutual macromolecular crowding. The shear rate dependence of the viscoelastic properties of HA solutions, depend on the relaxation time of the molecule, which in turn depends on molecular weight. Temperature can also have an effect on these properties. High viscosity of HA solutions, function of HA solutions. Immobility can increase the concentration of HA, increase the sliding and gliding of the layers of connective tissue and muscle. Over time, these changes can lead to inflammation. Inflammation can further increase the viscosity of HA-containing fluids if attachment of heavy chains derived from Inter- $\alpha$ -inhibitor. Hyaluronidase hydrolyzes HA, lowering the viscosity of the extracellular matrix fluid and making outflow of aggregates or gel-like structures that result from HA being modified. Hyaluronidase is a dispersion agent, but may also be useful in conditions where altered viscosity of HA is a component of muscle stiffness.

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# Forschungsooutput



# Neue OANA Arbeitsgruppe

Empfehlungen zur Erweiterung  
der OA-Strategie mit Open  
Research Data (und Software)

- Antwort auf die EU Forderungen und federführenden Entwicklungen in [GB](#) und [USA](#)

Fortführung der e-  
Infrastructures AT Task Force  
*Strategie für Umgang mit  
Forschungsdaten in Österreich*

- Synergetischer und koordinierter Ansatz: Österreich als Open Research Data Vorreiter positionieren



# e-Infrastructures Austria

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DANKE FÜR IHRE AUFMERKSAMKEIT!

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# Abbildungsverzeichnis

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