

Rückblick auf 8 Jahre Projekteinsatz von deegree

16.11.2010, deegreeday 2010, Bonn

Wie alles begann...

- Bedarf nach einem WFS-Server
- Bedarf nach einem WFS-T-Server
- Kurze Anpassungszeit für projektspezifische Aufgaben
- deutsche Ansprechpartner

- => Partnerschaft zw. Intevation und lat/ion GmbH

From JaGo to deegree!

The open source project JaGo changes its name. During the last months, increasing problems existed with the project name "". Despite intensive efforts, the owner of the domain www.jago.org could not be prompted to vacate this domain for the project even though it is not used by himself. In addition, it emerged that there exists a small GIS project called JaGo in france since about five years.

For these reasons we regard it as appropriate to perform a change of the name. Therewith, the open source project being so far developed with the name JaGo is from now on available at www.deegree.org.

All features are inherited from JaGo. Only a few classes are removed which are not used and deprecated for a long time. At the same time we are working at a complete re-implementation staying abreast of changes of both the upgrading of requirements and the increased complexity of deegree. Presumably, in autumn or winter 2002 the first release of the re-implementation will be available.

Till then deegree will be definitely administered and further developed. Anyway, for those who already implements JaGo as the basis of webmapping and the management of geodata there will be further on support and bug-fixes. But we recommend to move to deegree as soon as possible which is not very complicated because there will be retained all class names. Merely, the package names have changed ([JaGo sources](#)).

Deegree is a Java framework for geospatially-enabled solutions. It is based on [common GI standards](#) and allows building applications with spatially referenced content.

Deegree components can be used to either develop a standalone desktop mapping solution to be locally installed on a user's machine, or to set up a highly distributed and service-based infrastructure.

The central concept of deegree is the realisation of the best possible interoperability at the structure of GI architectures. This is managed by the implementation of the standards which passed the open GIS consortium and the ISO. In the current release deegree implements the OGC WMS 1.0.0 (partly also the WMS 1.1.1) and the WFS specifications, the OGC stateless catalog service specifications, the OGS coordinate system transformation specifications (kindly being provided by Martin Desruisseaux and the SEAGIS project) as well as the OGS gridcoverage specifications (in extracts) and the GML 2.11 specifications. An implementation of the OGC WCS 0.7 specifications is in preparation and will be available over the autumn. As the basis of all spatial operations a geometry model based on the ISO19107 was implemented.

Moreover, classes for reading and writing ESRI shapefiles and OGC well known binaries (WKBs) as well as for reading oracle spatial, ODBC or rather JDBC databases are available.

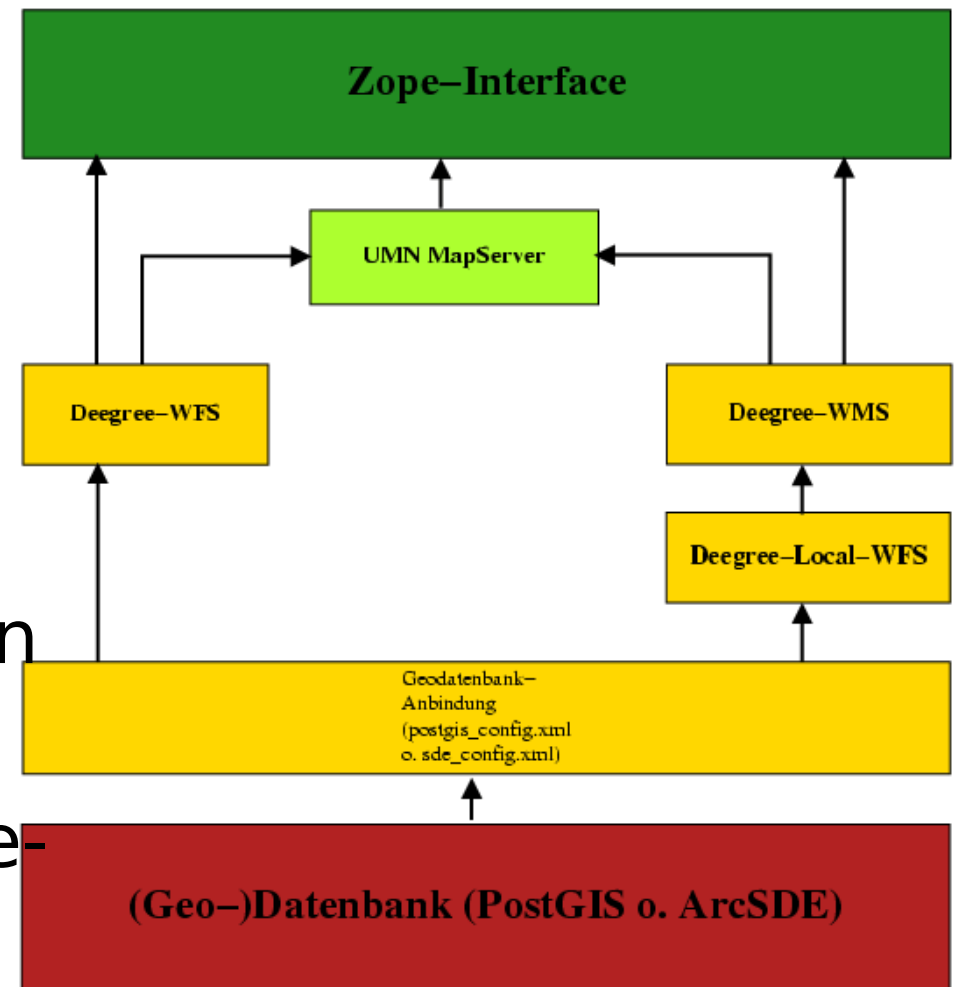
Under the terms of the conception of OGC, deegree is based on a service architecture by which the particular components are interacting with each other by well-defined interfaces. Whether the communication of the particular components takes place local, via intranet or internet is normally extraneous.

Deegree is a free software initiative founded by the [GIS and Remote Sensing unit](#) of the [Department of Geography](#), University of Bonn, and [lat/lon](#). We would gladly welcome any [contribution](#) to further development and implementation.

Deegree is free in the sense that it is protected by the [GNU Lesser General Public License](#).

WFS-(T) mit deegree 1

- 2003/2004
- WFS/WMS-Integration in Zope
- Erfassungskomponente für Geoobjekte
- Herausforderungen:
 - XML-Editierung,
 - Zusammenspiel mit anderen Komponenten
 - Versionsstabilität der einzelnen deegree-jars



deegree

Building blocks for spatial data infrastructures

The Free Software project deegree offers the substantial building blocks for the building of a Spatial Data Infrastructure by implementing the standards of the Open GIS Consortium (OGC) and ISO/TC 211. As the whole architecture of deegree is based on OGC specifications and concepts, there are no problems to integrate standardized products of other vendors (e.g. ArcIMS by ESRI(c)).

The following, OGC-based services are available:

Name	Functionality
Web Map Service (WMS)	Web-based creation of maps out of raster and vector datasets. The generated maps can be visualized by common web browsers.
Web Feature Service (WFS)	Web-based access to vector geo-data, that is delivered as GML 2.1.1 conformant XML-documents to clients, which can the further process this data (for example in a desktop GIS).
Web Coverage Service (WCS)	Web-based access to raster geo-data, that can be delivered in several image formats (e.g. TIFF, GIF, JPEG,BMP, PNM) and can then further be processed.
Web Catalog Service (WCAS) based on OGC Web Services Stateless Catalog Profile.	Web-based catalog service for administration and querying of metadata describing geo-data and geo-services. A catalog service allows retrieval of data and services based on spatial and textual search criteria.
Web Gazetteer Service (WFS-G)	Service allowing geo-referencing of geographic entities based on textual identifiers (e.g. place names)
Web Terrain Service (WTS)	Creation of views out of 3D-data like city models and digital elevation models. The generated views can be visualized by standard web browsers.
Web Coordinate Transformation Service (WCTS)	A WCTS allows the web-based transformation of geographic coordinates from one coordinate references system into another.

News:

10.11.2003

The new [WMS-Demo v1.1.2](#) includes minor updates concerning the conformance tests of CITE.

Read more in the [News-section](#).

16.09.2003

The Linux demos of the [WMS](#) and the [WMS-Client](#) are available.

The [deegree WMS documentation](#) is now available online as HTML-doc.

[more...](#)

12.09.2003

New demos released: WMS, WFS, WCS and WMS-client. New Sources released.

[more...](#)

03.09.2003

A [daily snapshot](#) of the deegree-sources is available.

- Deegree2-Viewer:
Visualisierungskomponente für
Desktopanwendungen
- 2005-2006
- Integration in eine wasserwirtschaftl.
Analysesoftware namens FLYS
 - Komponentenbasiertes Informations- und
Analysewerkzeug für gewässerkundliche
Fragestellungen
 - Module WINFO, Überschwemmungskarte,
Diagramm, Fixierungsanalyse

- Deegree WCS- und WMS-Komponenten
- 2008:
 - deegree-Parser für WMS-Client-Zugriff
 - Style-Nutzung über deegree-libs
- On-the-fly-Erzeugung von WCS-Konfigurationen für unterschiedliche Datensätze
- Herausforderungen:
 - XML-Konfiguration
 - Versionsstabilität der einzelnen deegree-Versionen

Gewässer:
 Demo

Digitales Geländemodell:
 io/Geodasie/Hoehenmodelle/raster_10x10.grd

Wasserstände:
 serstand-20070117105219.wst Q=9,1

Begrenzung der Berechnungsstrecke:
 von [km]: 75 bis [km]: 77

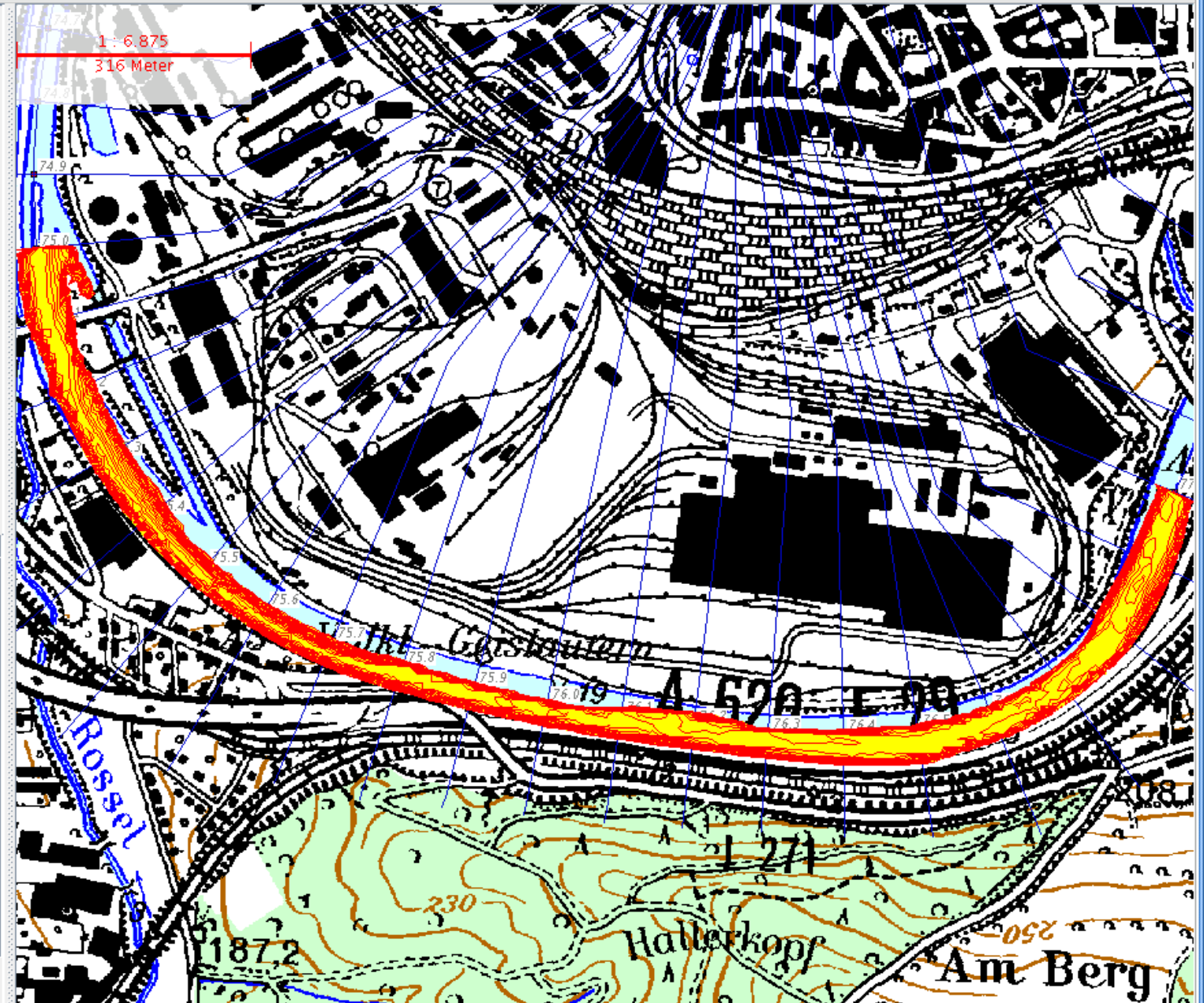
Differenzen zwischen Wasserspiegel und Gelände:
 von [m]: 0 bis [m]: 5 Diff [m]: 0,25

Überschwemmungsgebiet/Szenario:
 Aktuell Potentiell Szenario

Dämme, Gräben und Rohre:

Berechnung starten

	Stil	Name
<input checked="" type="checkbox"/>		Ueberschwemmungskart...
<input checked="" type="checkbox"/>		qps
<input checked="" type="checkbox"/>		achse
<input checked="" type="checkbox"/>		km
<input type="checkbox"/>		bauwerke
<input type="checkbox"/>		hws
<input checked="" type="checkbox"/>		wcs_tk25_configuration



- 2007
- Umzug des CVS-Repositories von Sourceforge auf wald.intevation.org
- Intevation stellt das Hosting des SCM zuverlässig sicher
- In mehrere Module separiert

deegree - Free Software for Spatial Data Infrastructures

Release-Candidates of WMS, WFS, WCS, CSW, WPVS and iGeoPortal are published. - [Read more](#)

- deegree is a Java Framework offering the main building blocks for Spatial Data Infrastructures. Its entire architecture is developed using standards of the [Open Geospatial Consortium \(OGC\)](#) and [ISO/TC 211 \(ISO Technical Committee 211 -- Geographic Information/Geomatics\)](#).
- deegree encompasses [OGC Web Services](#) as well as [Clients](#) and [security components](#).
- deegree is built by a number of participants. [lat/lon](#) and the [GIS Research Group](#) of the [Department of Geography of University of Bonn](#) are responsible for project coordination.
- deegree is Free Software protected by the [GNU Lesser General Public License \(GNU LGPL\)](#).
- An overview of all components implemented by deegree can be found at [lat/lon](#).
- A number of services and clients are available as packaged downloads. These can be found [here](#).

The old webpages will remain for a while at this place.

News

- [15th August 2007, The OGC Announces Styled Layer Descriptor & Symbol Encoding Specifications](#)
- [11th June 2007, Release Candidates for five services and our client iGeoPortal are ready for download](#)
- [22nd May 2007, Pre-release for WMS, WFS and WCS are ready for testing](#)

Contact

deegree Community

[User's Mailing List](#)
[Developer's Mailing List](#)
[Announce Mailing List](#)
[Business Contact](#)

OpenJUMP-Plugin

- 2008
- OpenJUMP WFS-Plugin auf Basis von deegree2
- Ziel: WFS/WFS-T mit OpenJUMP
- Herausforderungen
 - Anbindung des deegree Featuremodells an OJ
 - Untersch. Impl. Von WFS-Servern (nur Geoserver und deegree)

<stephan.holl@intevation.de>

The screenshot displays the 'DescribeFeatureType' dialog box within the OpenJUMP WFS-Plugin. At the top, the 'WFS Service' is set to 'http://demo.deegree.org:80/deegree-wfs/services'. The version is set to '1.1.0'. Below this are buttons for 'Verbinden', 'Capabilities...', and 'Einloggen'. The 'Feature type' is set to 'Country'. The dialog has tabs for 'Suche', 'Properties', 'Spatial', 'Anfrage', and 'Antwort', with 'Suche' selected. The main area is titled 'DescribeFeatureType' and contains a section for 'Attributbasierte Kriterien'. This section has a table with columns for 'Attribut', 'Operator', and 'Vergleichswert'. Two criteria are listed: 'upperName' and 'name', both with an equals operator and a 'value' comparison. Below the table are buttons for 'Kriterium einfügen' and 'Kriterium entfernen'. There are also sections for 'Verknüpfung' (with radio buttons for 'und' and 'oder', where 'oder' is selected) and 'Räumliche Kriterien' (with radio buttons for 'keins', 'Bounding box', and 'Selektierte Geom...', where 'keins' is selected). At the bottom of the dialog are buttons for 'tionen', 'Erw. Einst. verbergen', 'GetFeature ausführen', and 'Beend'.

WMS-Absicherung mit OWSPProxy

- 2006 - heute
- Absicherung der GDI-NI (LGN)
- Deegree2 mit U3R und OWSPProxy
- Herausforderungen:
 - XML-Konfiguration
 - Ausrollen der Software
 - Verlässliche Versionierungen
 - Skalierbarkeit

WMS-Absicherung mit OWSProxy

Services Benutzer Gruppen Rollen Logout (SEC_ADMIN)

Services-Editor

Typ: WMS WFS

Eingabe:

Nr.	Titel <>	Adresse <>	Typ <>	Aktion
Aktualisieren Bearbeiten				

Services Benutzer Gruppen Rollen Logout (SEC_ADMIN)

Rollen-Editor

Rollen

- SEC_ADMIN
- meier
- schmidt**

zugewiesene Gruppen

- schmidt

verfügbare Gruppen

- SEC_ADMIN
- meier

neue Rolle

[Rolle löschen](#) [Rechte editieren](#)

Services Benutzer Gruppen Rollen Logout (SEC_ADMIN)

Rechte-Editor

Definieren Sie hier, welche Informationsebenen für die Rolle 'schmidt' freigeschaltet sein sollen

Service: Frida Osnabrück DemoServer (WMS)

Freigeschaltete Layer

Nr.	Name <>	Titel <>
1	gruenflaechen	Grünflächen
2	gewaesser	gewaesser
3	gewaesserpolyl	Gewässerflächen
4	gewaesserlinien	Gewässer
5	sehenswuerdigkeiten	Sehenswürdigkeiten

Gesperrte Layer

Nr.	Name <>	Titel <>
1	Osnabrueck	Frida Osnabrück DemoServer
2	strassenall	strassen
3	sonststrassenhinten	Sonstige Straßen (Hintergrund)
4	nebenstrassenhinten	Nebenstraßen (Hintergrund)
5	hauptstrassenhinten	Hauptstraßen (Hintergrund)
6	bundesstrassenhinten	Bundesstraßen (Hintergrund)
7	autobahnhinten	Autobahnen (Hintergrund)
8	sonststrassen	Sonstige Straßen
9	nebenstrassen	Nebenstraßen
10	hauptstrassen	Hauptstraßen
11	bundesstrassen	Bundesstraßen
12	autobahn	Autobahn

deegree - Free Software for Spatial Data Infrastructures

deegree is a comprehensive geospatial software package with implementations of OGC Web Services like WMS and WFS, a geoportal, a desktop application, security mechanisms, and various tools for geospatial data processing and management. It is open source (LGPL), Java, standards-compliant (OGC, ISO) and an OSGeo project.



deegree day 2010

deegree day 2010 will be the fifth deegree day in a row and provide interesting talks and workshops. Please visit our dedicated deegree day 2010 website to get the latest news. Feel free to twitter about deegree day 2010. Tweets using the hashtag #deegreeday will be published on the conference homepage automatically.

Visit <http://deegreeday.deegree.org>



deegree 3: The perfect match for INSPIRE

Due to its advanced support for GML application schemas, the upcoming generation of deegree is the natural choice for implementing INSPIRE Data Themes.

deegree 3 (in development)

deegree 3 is the upcoming generation of deegree. In a nutshell, it offers

- state-of-the-art OGC web service implementations (WMS, WFS, WPS, WCS, CSW, SOS, WPVS)
- a completely modular and pluggable data access layer
- an advanced geospatial core library

More information on deegree 3 can be found in the [deegree wiki](#).

iGeoDesktop


iGeoDesktop is a modular and platform independent desktop GIS. It is implemented in Java and licensed under GNU Lesser General Public License (LGPL).

iGeoDesktop may be used as stand-alone desktop application or in a network environment with multi-user support via Java WebStart. The

News

- 9th April 2010, [deegree2.3 stable release available](#)
- 30th March 2010, [deegree day 2010 - Call for Abstracts](#)
- 22nd February 2010, [deegree2.3 Release Candidate 3 available](#)


Twitter

 [deegree](#)
[deegree_org](#)

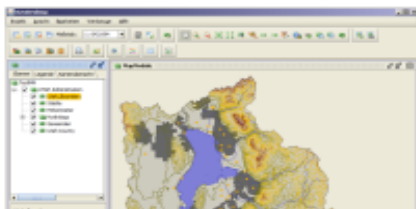
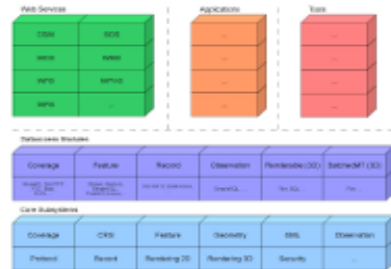
News - 2009 Annual Report Available - OSGeo Journal Volume 7 <http://bit.ly/a8UXyY>
7 days ago

Check out the latest news from the [#deegree3](#) development team. Developer meeting protocol: <http://bit.ly/cD3pEW>
2 days ago

New deegree release candidate available! Check out v2.4-rc4 at <http://demo.deegree.org> and visit our download pages at <http://deegree.org>
8 days ago

 Join the conversation

Contact



- 3A-Absicherung im Rahmen der GDI-NI
- Basis ist deegree3
- Herausforderungen:
 - XML-Konfiguration
 - d3 ist Work-in-progress
 - Funktionsumfang ist noch nicht komplett

- Deploy-Prozess über Software-Pakete (Debian/SuSE)
- Integration eines Accounting-Werkzeugs zur (AdV-konformen) Abrechnung (OSAAS)
- 'Vertrieb des OWSProxy' im Produkt GISpatcher

- Was wir deegree wünschen
 - Häufigere Releases
 - Release-Notes
 - Verlässliche Versionen
 - Modulare Zusammensteckbarkeit der Komponenten
 - Weitere 10 Jahre Erfolg!

Vielen Dank!

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