

# deegree

## deegree on Docker



deegree

<http://www.lat-lon.de>  
<http://www.deegree.org>

# Agenda

- Why should I use deegree on Docker?
- Existing Docker templates for deegree
- Create deegree Container with Maven
- Exercise: Starting up of deegree and database

Exercise: Working with your application running on a Docker-based infrastructure

# Why should I use deegree on Docker?

- Most appropriate Java and Tomcat version is used
- Easy to run, easy to deploy in different environments
- Easy to update

# Existing Docker templates for deegree

- There are already Dockerfiles for deegree on Github:
  - <https://github.com/tfr42/deegree-docker/>
- Docker Images on DockerHub:
  - <https://hub.docker.com/r/martinvi/deegree/>
  - <https://hub.docker.com/r/dolite/deegree/>
  - <https://hub.docker.com/r/stempler/deegree/>
  - <https://hub.docker.com/r/segoerke/deegree/>
  - <https://hub.docker.com/r/tfr42/deegree/>

# Create docker image with Maven

- The Spotify Docker Maven Plugin is configured in project „degree3\_workshop“.

- Create the Docker Image with Maven:

```
mvn clean package docker:build
```

- Start the Docker Container:

```
docker run -p 8080:8080 --rm tfr42/degree
```

- Use degree on Docker:

<http://localhost:8080/degree-webservices/>

# PostgreSQL with PostGIS on Docker

- There is an existing Image on Docker Hub.
  - <https://hub.docker.com/r/mdillon/postgis/>
- Image can be used to create Docker container.

## Exercise: Starting up of deegree and database

- Start database:

```
docker run --name postgres -p 5432:5432  
-d mdillon/postgis
```

- Start deegree:

```
docker run --name deegree -p 8080:8080  
--link postgres:db -d tfr42/deegree
```

- Alternatively, you can connect to shell during start up:

```
docker run --name deegree -p 8080:8080  
--link postgres:db -it tfr42/deegree
```

## Exercise: Working with your application running on a Docker-based infrastructure

- Access the deegree console:

<http://localhost:8080/deegree-webservices/>



## What we have learned

- You are able to set up a deegree webservice on a Docker-based infrastructure.

# Contact & Licence



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