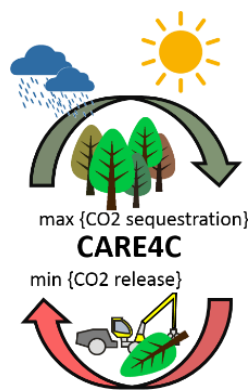


# *CARE4C in Forests: carbon balance, exchange, networking, linking disciplines – shaping research ideas*



## CARE4C

Carbon smart forestry under climate change

## Final Conference

14th-16th June 2023

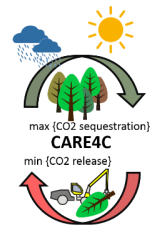
FBZ - Arnsberg, Germany

### Agenda and Venue

14.06: online: <https://app.bbbserver.de/de/join/d49d788a-4bbe-4861-85fc-9086eb76a756>

15.06: online: <https://app.bbbserver.de/de/join/62543cb6-5c63-4e0e-942f-ea7e8156bd6d>

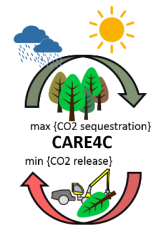
16.06: online: <https://app.bbbserver.de/de/join/c094454d-2cb2-48f3-a6bf-ca09bf6ec00f>



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The agenda might be subject to up-dates.



## Objectives & Expected Outcomes

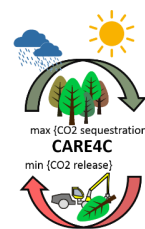
The event aims at summarising the main outcomes of CARE4C, presenting the results to a broader audience and at developing strategies for future research. It will be comprised by separate meetings for specific audiences.

## Participants

CARE4C-members, S4A-members, AB-members, Representatives from Eu and EU-Forests, invited scientists/practitioners

## Local organizing committee

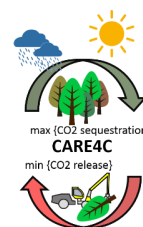
- *Thilo Wagner*, FBZ NRW, Germany ([thilo.wagner@wald-und-holz.nrw.de](mailto:thilo.wagner@wald-und-holz.nrw.de))
- *Filippo Guerra*, FBZ NRW, Germany ([filippo.guerra@wald-und-holz.nrw.de](mailto:filippo.guerra@wald-und-holz.nrw.de))



## Agenda

14 June 2023: General Assembly, internal project meeting, S4A outlook

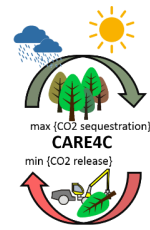
9:00 – 9:15	<b>Welcome</b>	H. Pretzsch, T. Wagner, E.Uhl
9:15 – 10:15	<b>General assembly</b>	E. Uhl, all
10:15 – 13:20	<p><b>Overview about outcomes of CARE4C</b> in terms of:</p> <ol style="list-style-type: none"> <li>1. Research highlights</li> <li>2. Data generated</li> <li>3. New methods developed</li> <li>4. Research perspectives/ideas/needs derived from CARE4C</li> </ol> <p>Summary of point 1 -4 by WPLeaders (15 + 5 min discussion) 5 selected presentations a 5 min (ideally covering different topics and presented by different partners, balance between academic, non-academic partners), 10 min common discussion</p>	
10:15 – 11:10	<p>Summary of WP2: Forest dynamics of carbon sequestration under climate change</p> <ul style="list-style-type: none"> <li>• Estimation of Leaf Area Index (Task 2.1)</li> <li>• Biometry and allometry of monumental trees in Bialowieza (Task 2.2)</li> <li>• Scots pine tree growth partitioning in dry/wet years in pure and mixed stands (Task 2.2)</li> <li>• The greater resilience of mixed forests to drought mainly depends on their composition: Analysis along a climate gradient across Europe (Task 2.3)</li> <li>• Competition-based mortality and tree losses. An essential component of net primary productivity (Task 2.3)</li> </ul>	<p>M. del Rio</p> <p>B. du Toit K. Bielak</p> <p>A. Askarieh</p> <p>M. Pardos online</p> <p>H. Pretzsch</p>
11:10 – 11:30	<b>Coffee break</b>	
11:30 – 12:25	<p>Summary WP3: Carbon emission and risk strategies in forest management under climate change</p> <ul style="list-style-type: none"> <li>• Hybrid power forest machine: energy efficiency in cable yarder wood extraction (Task 3.1)</li> <li>• Quantification and distribution of logging residues in forest plantations (Task 3.1) online</li> <li>• Extension to iFOS; proposal for a standardized protocol for fuel consumption analysis in forest operation (Task 3.1)</li> <li>• Integration of the forest machine engine data into a web-application (Task 3.1) online</li> <li>• Multi-criteria optimization of South African forestry-avocado land-use portfolios (Task 3.2/3.3)</li> </ul>	<p>S. Grogolato</p> <p>Alberto Cadei/ St. Grigolato</p> <p>A. Udali/ B. Talbot</p> <p>M. Ziesak</p> <p>I. Escamochero/ J. Olivar</p> <p>I. Jarisch /Th. Knoke</p>



12:25 – 13:10	<p>Summary WP4: Integration, training and career development</p> <ul style="list-style-type: none"> <li>• Application of machine learning models in biomass classification for Mixed evergreen Broadleaf Forests in Vietnam (Task 4.2)</li> <li>• New and better modelling procedures to assess stand variables in mixed stands using low density airborne lidar data</li> </ul>	<p>C. Wellstein Doan Thi Nhat Minh  R. Alonso</p>
13:10 – 14:30	<b>Lunch</b>	
14:30 - approx. 17:00  including coffee break	<p><b>Skill.4-Action outlook</b> PhD presentations</p>	S. Grigolato ESRs
18:00	<b>Guided Tour Soest</b>	
20:00	<b>Common Dinner (Hotel Pilgrimhaus) (Soest)</b>	

### 15 June 2023: Conference presentations, excursion

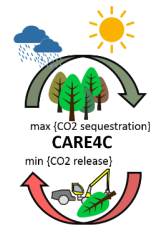
09:00 – 09:30	<b>Opening messages</b>	Regional representatives
9:30 – 9:45	<b>Introduction and summary of the summaries</b>	E. Uhl
9:45– 11:30	<p><b>Presentations of selected project outcomes, common discussion</b> (1 elected presentation per task, 10 min + 2 min discussion)</p>	Moderated by WP leaders
9:45 – 10:30	<p><b>WP2: Forest dynamics of carbon sequestration under climate change</b></p> <ul style="list-style-type: none"> <li>• Scots pine wood anatomy and density under different climate conditions in monospecific and mixed stands (Task 2.1)</li> <li>• Crown measurements in monospecific and mixed stands using TSL (Task 2.2)</li> <li>• The Impact of Climate and Adaptative Forest Management on the Intra-Annual Growth of Pinus halepensis Based on Long-Term Dendrometer Recordings (Task 2.3)</li> </ul>	<p>M. del Rio  S. Giberti/ C. Wellstein  F. Bravo  J. Olivar</p>
10:30 – 10:50	<b>Coffee break</b>	
10:50 – 11:35	<p><b>WP3: Carbon emission and risk strategies in forest management under climate change</b></p> <ul style="list-style-type: none"> <li>• Perspectives in using machine data to optimize energy efficiency in forestry operations (in collaboration with SU and BFH) (Task 3.1)</li> <li>• An overview of fuel efficiency and associated emissions in plantation forestry (Task 3.1)</li> <li>• Multi-criteria optimization of South African forestry-avocado land-use portfolis (Task 3.2/3.3) on-line</li> </ul>	<p>S. Grigolato  S. Grigolato  Z. Sibiya/ B. Talbot I. Jarisch/ Th. Knoke</p>



11:35 – 12:00	<b>WP4: Integration, training and career development</b>  • Integration of carbon sequestration and carbon emission in forest systems. A modelling approach (Task 4.2)	C. Wellstein  P. Biber/ M. del Rio
12:00 – 12:15	Common discussion	all
12:15 – 13:00	<b>Lunch</b>	
13:00 – 17:00	<b>Excursion:</b> Arnsberg Forest Topic: reforestation of disturbed forests	T. Wagner, F. Guerra
17:00 – 18:00	<b>Visit to Möhnesee Reservoir</b>	
18:30	<b>Common Dinner (Torhaus, Möhnesee)</b>	

## 16 June 2023: Developing future research strategies

9:00 – 9:45	Presentation by EU representative  Presentation by Forest Europe  Presentation by BayFOR, overview about calls	M. Wolf  J. Achieng  M. Schulte
9:45 - 11:45	<b>Workshop:</b> developing future research strategies	M. Schulte (Moderator), guests, all
10:30 – 10:50	<b>Coffee break</b>	
11:45 – 12:00	<b>Summary of conference</b>	H. Pretzsch, E. Uhl
12:00	<b>End of meeting, lunch</b>	



## Meeting location

The meeting location is *FBZ NRW* headquarters:

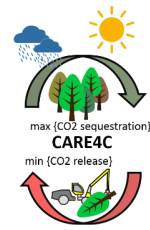


Landesbetrieb Wald und Holz NRW  
Zentrum für Wald und Holzwirtschaft (FB V)  
Forstliches Bildungszentrum  
Alter Holzweg 93  
59755 Arnsberg-Neheim  
Tel: 02931 / 7866-300  
E-Mail: [forstliches-bildungszentrum@wald-und-holz.nrw.de](mailto:forstliches-bildungszentrum@wald-und-holz.nrw.de)

**Wichtiger Hinweis:** Bitte geben Sie in Ihrem Navigationsgerät die nachstehende Adresse ein: „Alter Holzweg 56, 59755 Arnsberg“ und folgen Sie der Straße und Beschilderung für 500 m zum Forstlichen Bildungszentrum.

**Important note:** Please enter the following address in your navigation system: „Alter Holzweg 56, 59755 Arnsberg“ and follow the road and signs for 500 m to the Forestry Training Centre.

Please use this map to plan your trip.



## Useful Info about HOW TO REACH FBZ

Neheim is accessible:

### By plane or public transport

- Airport: Düsseldorf (Düsseldorf International Airport), Cologne (Köln Bonn Airport) or Dortmund (Dortmund Airport)
- Rail: from the airports to Dortmund HBF train station, from there to Neheim-Hüsten train station (details/ticket: [Deutsche Bahn](#))
- Public Transport: bus service from Neheim-Hüsten train station ([rlg-online](#))
- Taxi: in front of Neheim-Hüsten train station (best option for hotel transfer)

### By car

The FBZ can be reached by car. The best way is to use the A46 (A445). Exit the highway by Exit 62 "Neheim Voßwinkel". Turn left on the B7 direction Neheim, at the second traffic light turn right turn into Graf-Gottfried-Straße until roundabout. At the roundabout take the second exit and follow the Graf-Gottfried-Straße. At the next roundabout take the third exit into the street "Alter Holzweg". The "Alter Holzweg" further followed by a valley with a trail parking lot to the edge of the forest. The FBZ is left side in the forest.

Shuttle Arnsberg – Soest is organised

## Useful Info about Arnsberg

Arnsberg is the historical gateway to the "Land of the thousand hills", the Sauerland. Here rolling landscapes, clear lakes, green forests, lush meadows, and spotlessly clean timbered houses form the scenery. And Arnsberg as well, with its districts and villages, presents itself romantic, versatile and close to nature within a beautiful and well wooded countryside.

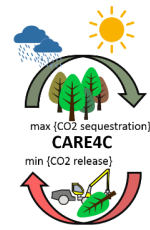
More under: [www.arnsberg.de](http://www.arnsberg.de)

The Möhne Reservoir: It is an artificial lake in North Rhine-Westphalia, some 45 km east of Dortmund, Germany. The lake is formed by the damming of two rivers, Möhne and Heve, and with its four basins stores as much as 135 million cubic metres of water.

The dam was built between 1908 and 1913 to help control floods, regulate water levels on the Ruhr river downstream, and generate hydropower. Today, the lake is also a tourist attraction.

More under: Möhne Reservoir





## Accommodation

Preferable hotel choice:

Hotel am Wall (<https://www.hotelamwall.de/>)  
Dasselwall 19, 59494 Soest  
Tel. + 49 2921 35000  
Transfer to venue will be organised  
Price: 80€-90€ (min 40 single rooms), 103€-117€

Other possibilities:

Dorint Hotel: (<http://hotel-sauerland-arnsberg.dorint.com/de/>)  
Zu den Drei Bänken, 59757 Arnsberg  
Tel.: +49 2932 2001  
Distance and price: 2,5km to FBZ, 80-100€

Hotel Ibis Styles: (<https://all.accor.com/hotel/7963/index.it.shtml>)  
Moehnestrasse 37, 59755 Arnsberg  
Tel: +49 2932/700755  
Distance and price: 800m to FBZ, 90- 110€

Hotel Rodelhaus: (<http://www.rodelhaus.de/hotel/>)  
Zu den Drei Bänken  
59757 Arnsberg  
Tel. +49 2932 /97040  
Distance and price: 2,5km to FBZ, 90-120€

## Restaurants during the Meeting

14.06 dinner:

Hotel Pilgrimhaus  
Jakobistraße 75, 59494 Soest  
Telefon: 02921 1828

Transfer to venue will be organised

15.06 dinner:

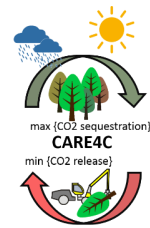
TORHAUS MÖHNESEE

Arnsberger Straße 4

59519 Möhnese-Delecke

Transfer to venue will be

organised



## More information

Official language: German (English is spoken by most of the population and service providers).

Time zone: CET+1hour (during summer).

Currency: € (Euro).

Exchange: money can be exchanged in banks, exchange offices and machines.

Telephone access code: Germany + 49.

Essential telephone contacts:

- Emergency: 112
- Police: 110
- Tourism Office: +49 2931/4055

Opening hours:

- Banks: Monday to Friday - 08h30/15h00
- Street commerce: Monday to Friday - 09:00 or 10:00/19:00. Saturdays from 9:00 – 13:00
- Shopping Centers: Daily - 09:00/22:00
- Pharmacies: Monday to Friday - 09:00/19:00 > 09:00/13:00 Saturday.

Information about 24-hour pharmacy service displayed at all pharmacies.