





WP2AI-& HPC-Cross Methods at Exascale – Monthly Meeting

Prof. Dr. – Ing. Morris Riedel et al. School of Engineering & Natural Sciences, University of Iceland 2021-11-26, RAISE WP2 Monthly Meeting November 2021, Online



@MorrisRiedel

https://www.youtube.com/channel/UCWC4VKHmL4NZgFfKoHtANKg

morris@hi.is

WP2 November Meeting – Welcome & Agenda

- 1. Approval of minutes from Monthly Meeting October 2021
 - ▶ (All), ~5 Min
- 2. Review WP2 Status on Interaction Rooms
 - > (Morris Riedel, Matthias Book, Helmut Neukirchen), ~5 Min
- 3. Status D2.2 (M12)
 - > (Guillaume, Guillermo, Cristóbal), ~10 Min
- 4. Status D2.14 (M12)
 - ➤ (Morris et al.), ~20 Min
- 5. AHM Meeting Action Items Debrief
 > (Morris & Andi), ~5 Min
- 6. Network Testing RAISE Partners
 - ➤ (Lauris), ~5 Min
- 7. Hands-on Workshop on GPUs & CUDA
 - ▶ (Lauris), ~5 Min
- 8. Compelling Scoreboard Review & Next Steps
 - ▶ (All), ~5 Min

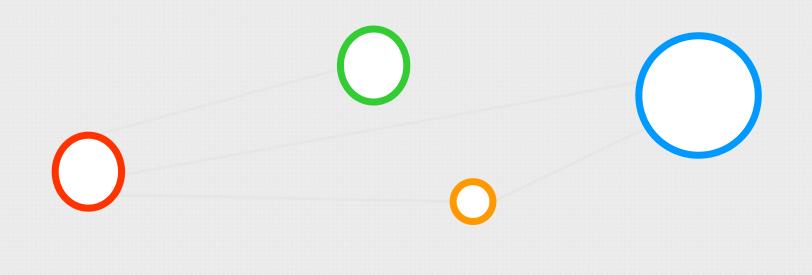






Agenda Item (1) – Minutes Approval – Meeting October 2021







Minutes Approval – Monthly Meeting October 2021

> Minutes available in BSCW

- https://bscw.zam.kfa-juelich.de/bscw/bscw.cgi/3704758
- > TBD(all): Any objections or additions/changes?
- > TBD(Guillaume, Guillermo, Cristóbal): Upload presentation

Norris Riedel > 💿 RAISE WP2 > Issues	
Open 11 Closed 10 All 21	ک ک خ د Edit issues New issue
Recent searches V Search or filter results	Due date ~ 4h
B - Create Fact Sheet Task 4.4 Sound Engineering #21 - created 3 minutes ago by Morris Riedel ◎ WP2 Fact Sheet Collection Completed 酋 Apr 30, 2021	🔹 🖏 1 updated just now
B - Create Fact Sheet Task 42 Seismic Imaging #20 - created 8 minutes ago by Morris Riedel 🔇 WP2 Fact Sheet Collection Completed 🗎 Apr 30, 2021	😥 🗖 2 updated just now
B - Create Fact Sheet Task 4.3 Manufacturing #18 - created 1 month ago by Morris Riedel 🕐 WP2 Fact Sheet Collection Completed 🛗 Apr 30, 2021	ng 🛱 3 updated just now
B - Create Fact Sheet Task 3.1 Turbulent Flow #17 - created 1 month ago by Morris Riedel 🕐 WP2 Fact Sheet Collection Completed 🛗 Apr 30, 2021	😗 🖏 2 updated 16 minutes ago
8 - Create Fact Sheet Task 4.1 Fundamental Physics #16 - created 1 month ago by Morris Riedel 🕐 WP2 Fact Sheet Collection Completed 🗎 Apr 30, 2021	updated 2 weeks ago
B - Create Fact Sheet Task 3.2 Clean Energy #14 - created 1 month ago by Morris Riedel 🔇 WP2 Fact Sheet Collection Completed 🛗 Apr 30, 2021	updated 15 minutes ago
B - Create Fact Sheet Task 3.5 Coaling #13 - created 1 month ago by Morris Riedel 🕐 WP2 Fact Sheet Collection Completed 🛗 Apr 30, 2021	😗 🛱 1 updated just now
B - Used Doodle for WP2 Monthly Meeting April 2021 Date & Time #12 - created 1 month ago by Morris Riedel 🔇 WP2 Monthly Meeting - April 2021 🛗 Apr 30, 2021	updated 14 minutes ago
8 - Create Fact Sheet Task 3.3 Reacting Flows & Task 3.4 Engine Design #11 - created 1 month ago by Morris Riedel 🕐 WP2 Fact Sheet Collection Completed 🗎 Apr 30, 2021	updated 12 minutes ago
8 - Used Doodle for WP2 Monthly Meeting May 2021 Date & Time #19 - created 11 minutes ago by Morris Riedel 🕜 WP2 Monthly Meeting - May 2021 🖄 May 31, 2021	g につ updated 11 minutes ago
B - Create WP2 Expertise Matrix Draft and Circulate for WP2 Review #7 - created 2 months ago by Morris Riedel ③ WP2 Expertise Matrix Exists 😁 May 31, 2021	updated 15 minutes ago



2021_05_28_Monthly_Meeting May 2021

- Slides & Materials from meeting 2021-05-28
- 2021_06_29_Monthly_Meeting June 2021
 Slides & Materials from meeting 2021-06-29
- 2021_07_22_Monthly_Meeting July 2021
 Slides & Materials from meeting 2021-07-22

2021_08_30_Monthly_Meeting August 2021

Slides & Materials from meeting 2021-08-30

2021_09_30_Monthly Meeting September 2021

Slides & Materials from Meeting 2021-09-30

2021_10_29_Monthly_Meeting October 2021

Slides & Materials from Meeting 2021-10-29

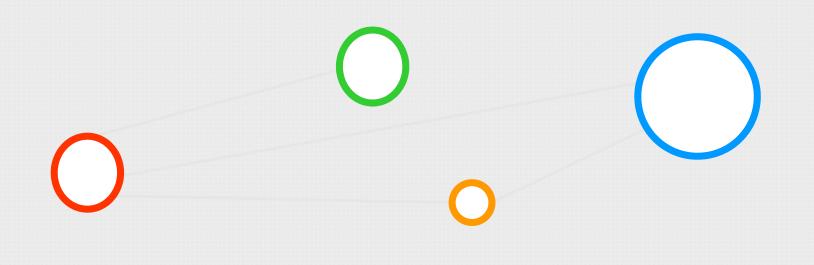
2021_10_29_CoE-RAISE-WP2-Monthly-Meeting-Riedel-v1.pptx

2021-10-29-Monthly-Meeting-October-2021-Minutes-v1



Agenda Item (2) – Review WP2 Status on Interaction Rooms







Interaction Room Status & Discussions – WP3/WP4 Overview

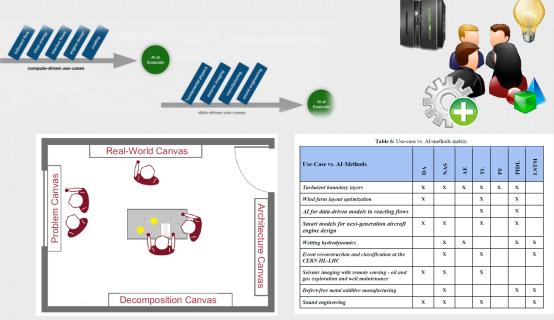


► WP3

- > T3.1: Turbulent Flow (started)
- > T3.2: Clean Energy (started)
- > T3.3: Reactive Flows (started)
- > T3.4: Engine design (started)
- > T3.5: Coating (started)

> WP4

- > T4.1: Fundamental physics (started)
- > T4.2: Seismic imaging (started)
- > T4.3: Manufacturing (started)
- > T4.4: Sound engineering (started)



- Continuing Steps
 - Carve out more details on AI/HPC methods
 - Identify concrete detailed algorithms
 - Evaluate and benchmark scalability of methods





Interaction Rooms via MURAL Boards & Milestone Inputs

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> TBD(all): Do people use the MURAL boards (e.g., Task 3.4 is pretty empty but with Task 3.3)? https://bscw.zam.kfa-juelich.de/bscw/bscw.cgi/3591551

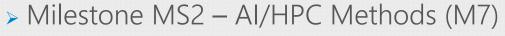


Google Doc Milestone AI/HPC Methods (M7) – Living Document RASE

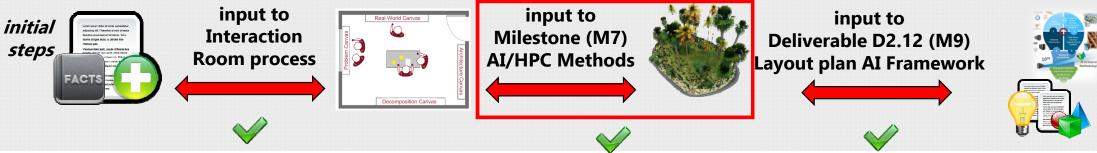
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Use-Case vs. AI-Methods	VQ	SAN	AE	Ë	PF	PIDL	MS2		AI for wetting hydrodynamics						х							
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AI for data-driven models in reacting flows				x	\rightarrow	x	Draft		LHC use case													
Smart models for next-generation aircraft engine design	x	х		x		x			Seismic imaging with remote	х				х								
Wetting hydrodynamics		х	х			x	x		sensing for energy applications													
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Sound engineering	x	х		х			x															



WP2 Updates – Location Milestone MS2 AI/HPC Methods (M7)



- Format and Template clarified with PMO: <u>https://bscw.zam.kfa-juelich.de/bscw/bscw.cgi/d3657643/CoE%20RAISE_MS_Template.docx</u>
- > Not an official document, maybe only useful in the review;
- > Summary (1/4 page) provided as comment in EU portal by clicking the checkbox for MS2
- > Google Document to keep it as a living document with important updates from Mural over time
- > TBD: Snapshot at end of August for archiving via Word document as MS2 document (optional)
- Location (shared for everyone to edit): <u>https://docs.google.com/document/d/1Az88KP9Z4USFA5hPMnqRhCE_8I9IzxnnvsYIhE2UXzc/edit?usp=sharing</u>

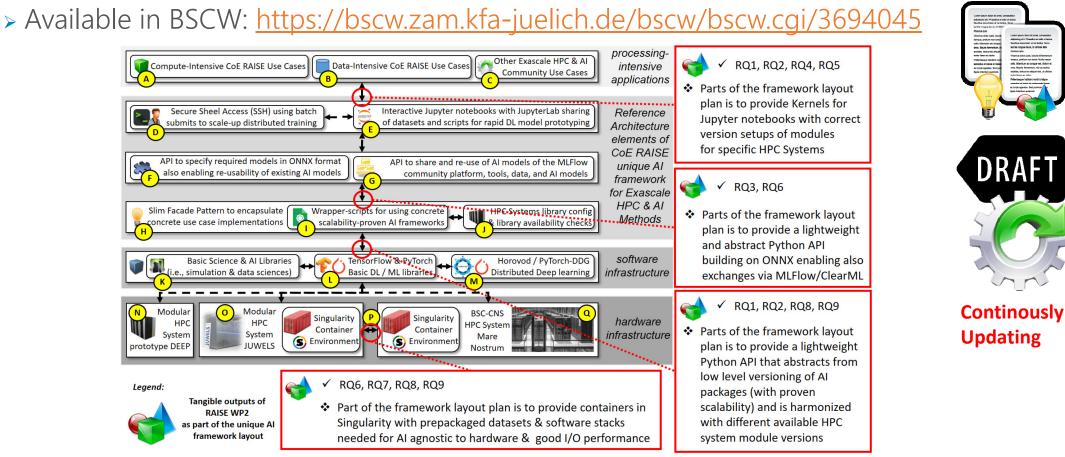






Debrief Deliverable D2.12 Framework (M9) – Initial Blueprint







Changed Time Schedule for M12/December Deliverables (1)

> TBD(all): check your involvement for producing & reviewing

<u>https://bscw.zam.kfa-</u>

juelich.de/bscw/bscw.cgi/d3287337/CoE%20RAISE Deliverables Status.xls

As we have 8 deliverables coming up and with the Christmas holidays in mind, we would like to start with the preparation of the deliverables earlier. We are now looking at the following time schedule:

- 29.11.2021:

The author(s)upload(s)the Deliverable to the BSCW server to CoE RAISE / Reports and Deliverables / In progress / DX.Y. The author(s)inform(s)the WP leader the internal reviewer and the PMT about the uploaded document. The document name includes the term "Draft".

- 06.12.2021:

The internal reviewer returns the document with comments and suggestions in track-changes mode to the author(s). The reviewed document is placed into the same folder on the BSCW as the original document and the PMT and WP leaders are informed in addition to the author(s).

- 06.12.2021 - 14.12.2021:

Continuous exchange between the author(s) and the reviewer (the PMT can already be involved). When a final version is ready for the PMT to review, the author(s) uploads the revised Deliverable to the BSCW server and informs the WP leader, the internal reviewer, and the PMT. The PMT starts to review the Deliverable and keeps track of all changes.

- 14.12.2021:

The PMT uploads the commented version to the BSCW server and informs the author(s) and the WP leader.

- 14.12.2021 - 21.12.2021:

Continuous exchange between the author(s), the reviewer, and the author(s). At the end, all corrections requested by the PMT have been included and the document is uploaded to the BSCW server. The file name includes the term "Final".

- 21.12.2021 - 22.12.2021:

The PMT generates the final PDF.

- 23.12.2021:

The Coordinator submits the Deliverable to the EC and places the finally submitted version into the BSCW folder CoE RAISE / Reports and Deliverables / EC submitted.



2021-11-26 RAISE WP2 Monthly Meeting November 2021



Changed Time Schedule for M12/December Deliverables (2)



TBD(Guillaume, Morris): Start preparing D2.2 & D2.14 directly after the call
 TBD(all): note that WP2 members are also involved in WP3/WP4 use cases

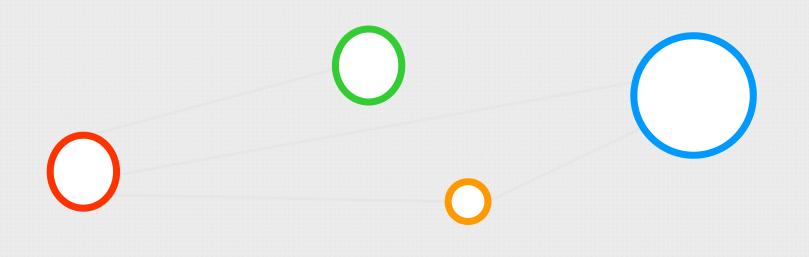
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X	D2.2	Report on porting & performance engineering	BSC	R	PU	12	M. Riedel/ UOI	G. Houzeaux/ BSC	M. Meinke/ RWTH	A. Lintermann/ FZJ	29.11.2021	31.12.2021
X	D2.14	Report on novel Al technologies	UOI	R	со	12	M. Riedel/ UOI	M. Riedel/ UOI	S. Kesselheim/ FZJ	J.Lopez/ ParTec	29.11.2021	31.12.2021
	D3.1	Report on outcomes of WP3 use-cases	RWTH	R	со	12	W. Schröder/ RWTH	M. Meinke/ RWTH	S. Schlimpert/ FM	J.Lopez/ ParTec	29.11.2021	31.12.2021
	D4.1	Report on outcomes of WP4 use-cases	CERN	R	со	12	M.Girone/ CERN	V. Khristenko/ CERN	H. Neukirchen/ UOI	I. Schmitz/ ParTec	29.11.2021	31.12.2021
	D5.4	IP document and services	FZJ	R	со	12	K. De Grave/ FM	M. Himmelsbach/ ParTec	I. Slaidins/ RTU	A. Lintermann/ FZJ	29.11.2021	31.12.2021
		IP document and services Educational portfolio document	FZJ	R R	CO PU		K. De Grave/ FM R. Gregorio/ BSC	ParTec	I. Slaidins/ RTU V. Harmandaris/ CYI	FZJ	29.11.2021 29.11.2021	31.12.2021 31.12.2021
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Agenda Item (3) – Status D2.2 (M12)







Agenda Item (3) – Status D2.2 (M12)



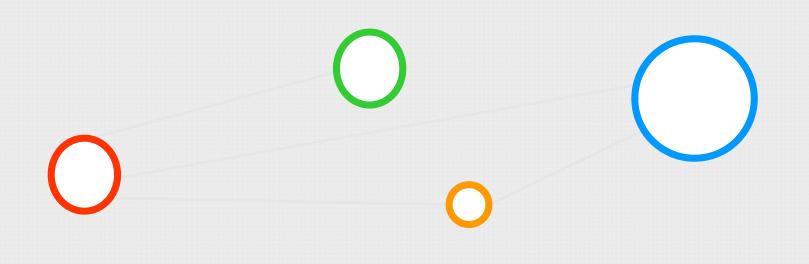
> (Guillaume, Guillermo, Cristóbal), ~5 Min





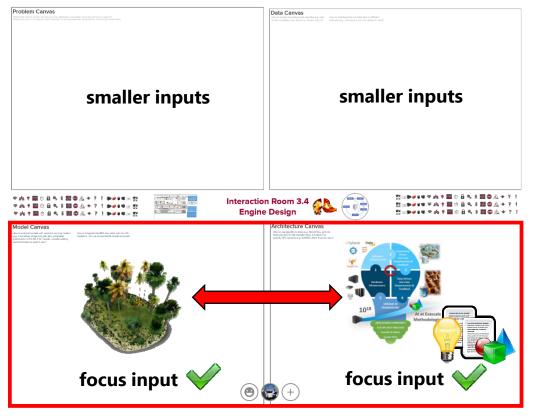
Agenda Item (4) – Status D2.14 (M12)

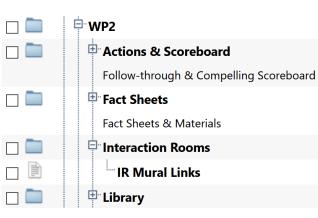






Interaction Rooms via MURAL Boards & Refinements for D2.14 RASE







IR Mural Links

 IR3.1 Turbulent Flow: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/1621377866397/8613c384d54f66fb5c78599ff307a4ce8a9090c0?sender=u15e3008bb41d6628a5bb5701

 IR3.2 Clean Energy: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/1621377887905/cb44cea3eedd3bb9964fbfa36af16b1bfcee085f?sender=u15e3008bb41d6628a5bb5701

 IR3.3 Reactive Flows: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/1621377959022/026363886f24833eeb19b025d87324b57fd50e2db?sender=u15e3008bb41d6628a5bb5701

 IR3.4 Engine Design: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/16213779976343/8d7aba6be09af3b2ffd305d2f709c53661ac889d?sender=u15e3008bb41d6628a5bb5701

 IR3.4 Engine Design: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/1621377991014/7a5d7e1eaf230178342d1e1d4a84d656d9055d522sender=u15e3008bb41d6628a5bb5701

 IR4.1 Fundamental Physics: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/16213778025356/f0d5285fcaec5eafa515bd6676e84d814879d39?sender=u15e3008bb41d6628a5bb5701

 IR4.2 Seismic Imaging: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/162137802303a8/a0b9503ab837a2a28af4bb8d9adbec338749987sender=u15e3008bb41d6628a5bb5701

 IR4.3 Manufacturing: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/1621378038069/93df6fa7a41093feaac7be3f238r49987sender=u15e3008bb41d6628a5bb5701

 IR4.4 Sound Engineering: https://app.mural.co/t/matthiasbook8855/m/matthiasbook8855/1621378050431/b5fa12219002404059f90a4bbb0101fa379a8503?sender=u15e3008bb41d6628a5bb5701





D2.14 – Agreement with WP3/WP4

> WP leaders meeting WP2/WP3/WP4

- Use Case authors (from WP3/WP4 and partly WP2) focus on WP3/WP4 deliverables first
- WP2 content on will be partly taken out/copied from WP3/WP4 deliverables (not as planned by WP2, but agreement)
- > WP2 deliverable will be later ready then WP3/WP4 (we started, also vacation Morris, Kurt, and others)

Status

- > UOI started call for comments (some inputs)
- > FZJ already provided excellent content input
- RTU & UOI does as much as we can to push for internal review
- Google Doc: <u>https://docs.google.com/document/d/1JH_q6PLhTWZznKby6VULf6Nc0ozmVxui/edit</u>

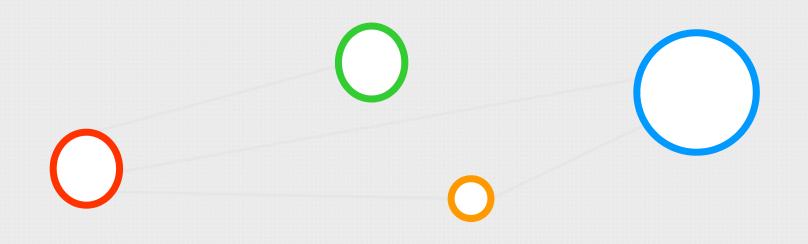


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	enter of Excellence "Research on Al- and mulation-Based Engineering at Exascale" I ^r Grant Agreement Number: 991733
	D2.14
	Report on Novel AI Technologies
	Initial Draft
	0.1 M. Riedel (UOI)
	H. Neukirchen (UOI), M. Book (UOI)
Date:	12.11.2021



Agenda Item (5) – AHM Meeting Action Items Debrief







Agenda Item (5) – AHM Meeting Action Items Debrief

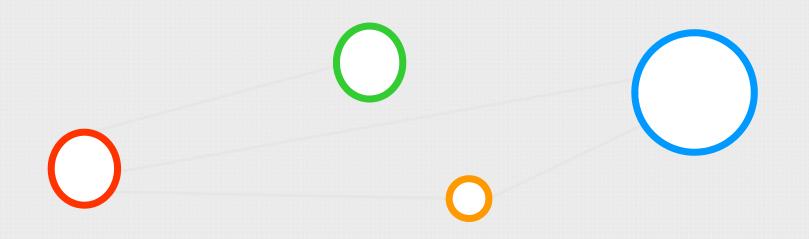
- > Presentations from WP2
 - Generally ok
 - > Not much feedback from participants about Framework AI (Task 2.4) or Methods Matrix (Task 2.5)
- Action Items
 - > TBD(Morris): Contact advisory board members for topics on WP2 Seminars
 - > TBD(Morris): Planing in advance seminars so that they can be better advertised on social media (WP6)
 - > TBD(Morris): WP6 News Item of WP2: AI framework & updated AI Matrix
 - ➤ TBD(All): More interactions with WP3/WP4 to encourage exchange/identification of Al methods and transfer to other problems, across WPs → TCB





Agenda Item (6) – Network Testing RAISE Partners







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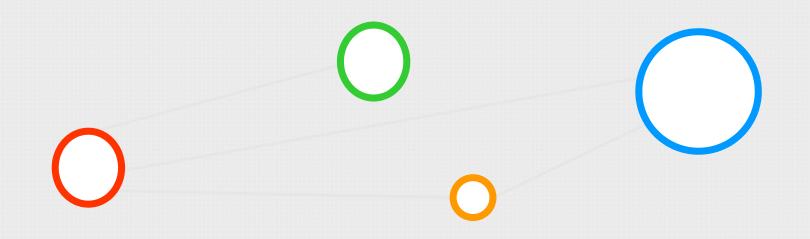
▶ (Lauris), ~5 Min





Agenda Item (7) – Hands-on Workshop on GPUs & CUDA







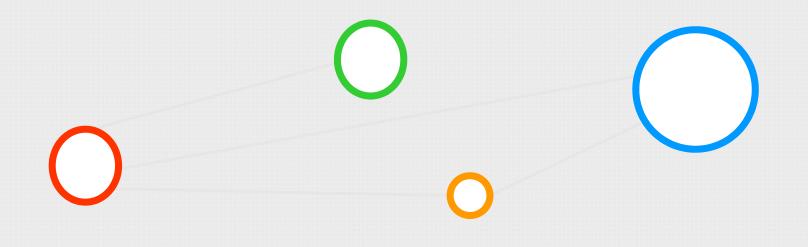
Agenda Item (7) – Hands-on Workshop on GPUs & CUDA

- ▶ (Lauris), ~5 Min
- > TBD(Lauris et al.): Exact Date and Time of Seminar, Training or WP2 Seminar?
- > Training from RAISE, maybe first internal, then external?
- > 2 days workshop (4 hours per day)
- > WP6 educational group?
- > WP2: Who is delivering what training when (milestone)?





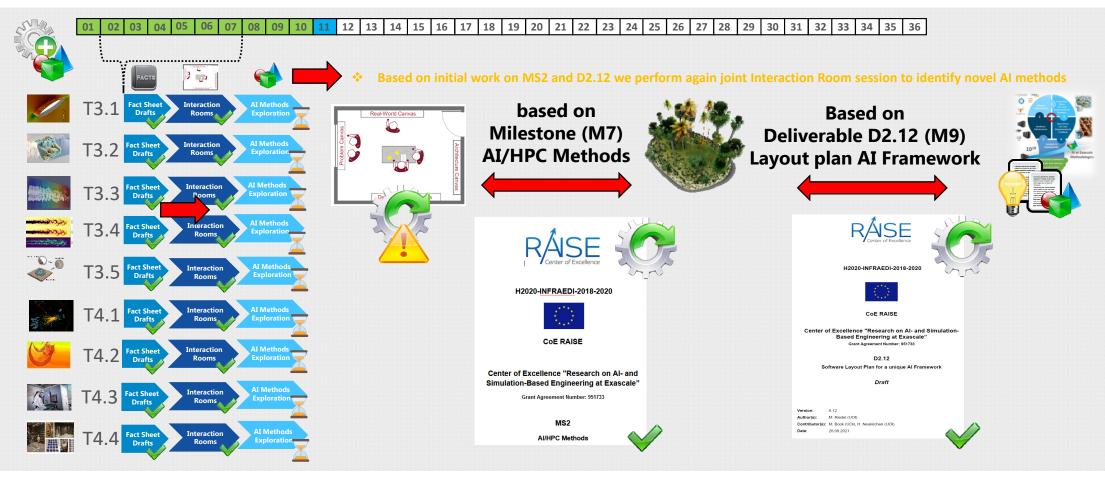
Agenda Item (8) – Compelling Scoreboard Review & Next Steps RASE





Compelling Scoreboard Review – Use Case Progress

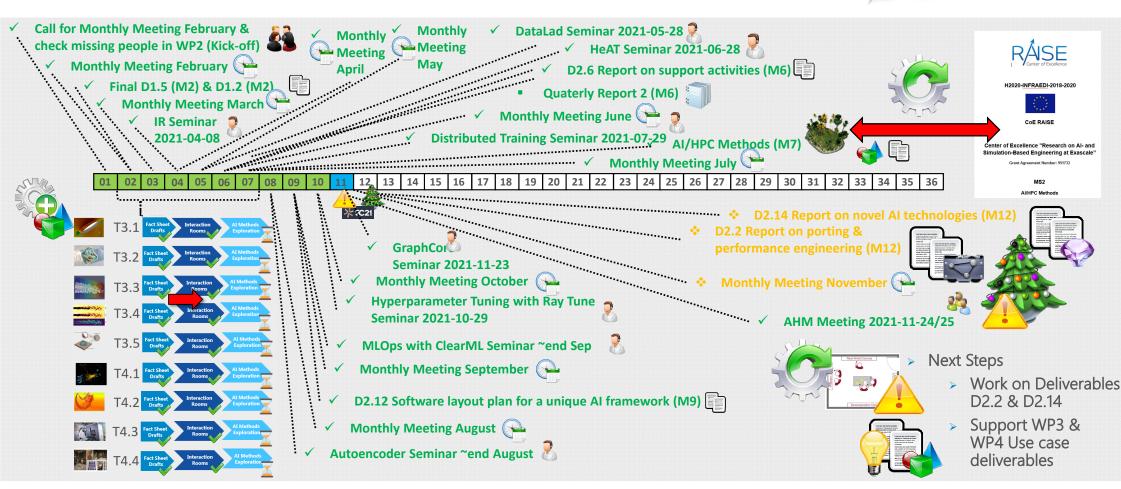






Compelling Scoreboard Review & Next Steps







Agenda Item (8) – Next Steps & Follow-Through

- 1. AOB: Seminar on OpenML & Interopable Formats
 - 1. TBD (Morris): Andi made contact and we have to follow-up on a date, probably later in the year
- 2. AOB: ADMIRE adopted the Fact sheet and Interaction Room process
 - 1. Sucess on the web page, more visible?





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