Checkpoint Requirements

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Introducing Checkpoints!

Many deliverables encountered by teams are not conducive to traditional rough drafts (RDs) for progress checks and feedback. Instead, these deliverables will consist of incremental *checkpoints* which are due at predetermined times during the term. Fellow Element teams will promptly review your deliverable and provide feedback. Now, we understand that sometimes the project may not align perfectly with these checkpoints. Therefore, we encourage teams to make each checkpoint submission as concrete as possible while remaining open to updates and changes in the project's direction. Checkpoints are designed to be helpful, and teams can ask for extensions if needed.

To submit the deliverable, teams will place their deliverable in a centralized folder (teams can work on the file in the centralized folder or in their own folder, dealer's choice). Whenever they have completed a section for a checkpoint, teams should leave a comment on the completed section 'tagging' their PC POC to look over their work. For a timeline of checkpoint due dates, see below. Checkpoints are *due on Thursday COB* of each week (unless otherwise specified by the PC team). Reviewed deliverables will be sent back to the teams ASAP during the following week.

Summer Calendar

Week	1	2	3	4	5	6	7	8	9	10

Deliverables

- Personal DEVELOPedia Page (Week 1)
- Entrance PGA (Week 1)
- Shapefile (Week 2)
- CC Form* (Week 4)
- CC Video RD* (Week 7)
- Web Image (Week 7)
- HQ Flash Talk* (Week 8)
- **Poster (PO)** (Week 8)
- **Presentation (P)** (Week 8)
- Project Summary (Week 9)
- Project DEVELOPedia Page (Week 9)
- **CC FD*** (Week 9)
- **Tutorial FD* (T)** (Week 10)
- **GitLab Code FD* (GL)** (Week 10)
- Tech Paper (TP) (Week 10)
- Final Forms° (Week 10)

Checkpoints

- TP #1 (Week 3)
- P #1 (Week 3)
- TP #2 (Week 5)
- PO #1 (Week 5)
- TP #3 (Week 6)
- P #2 (Week 6)
- T #1*° (Week 6)
- P #3* (Week 7)
- GL#1* (Week 7)
- TP #4 (Week 8)
- CC #1* (Week 8)

Calendar Notes

- All Checkpoints and Deliverables are due on Thursday unless otherwise stated.

- **Deliverables in Bold** have at least one prior checkpoint.

- Deliverables and their respective Checkpoints with an * are *optional.*

- Tech and Innovation Projects are ***not required*** to due the shapefile but ***are required*** to do the tutorial.

- The Poster and Presentation are due on ***Tuesday*** of week 8.

- °Tutorial Checkpoint #1 (T#1) is only for Code tutorials. It is ***not required*** for GIS tutorials.

- °Final Forms include The Exit Personal Growth Assessment (Exit PGA), the Anonymous Program Feedback Form, & the Project Feedback Form (done as a team while the others are indidividual). These are due on Monday of week 10.

Tech Paper Checkpoints

(Additionally, See tech paper template for more detail on each required section)

TP Checkpoint 1 - 2.1 Background & 2.2 Partners & Objectives (week 3)

For this checkpoint, teams should be wrapping up their literature review. In these sections of the tech paper, we need most everything from the template (description of study area and problem, scientific basis of methods with citations, partner information (who they are, what they do, whether or not they use remote sensing), project objectives (end products and questions you set out to answer)). The only thing that is not hard due here from the template is the study area map and time period (since they are often subject to change later in the term). The study area visualization may be more easily done with map creation. The time period can change if you remove or add EOs. If you can do these now it will be helpful, but if you want to hold off on this, just denote where these will be (i.e., "We analyzed the region from #### to #### using..." or "*Study area map to be inserted here*")

TP Checkpoint 2 – 3.1 Data Acquisition (week 5)

By this point teams should have a handle on EO's they are using, time periods, acquisition methods, etc. We want this entire section and **EO citations in the references section** filled out. This one shouldn't take too long as this section is pretty straightforward. It is ok to make updates and add EOs/other datasets in the future but try to have this as filled out as possible.

TP Checkpoint 3 – 3.2 Data Processing, 3.3 Data Analysis (week 6)

By the point, teams should have a solid understanding of their methods of processing and analyzing data, even if it is not fully complete. Remember, data processing is what is done in order for the data to be usefully readable/seeable (i.e., cloud cover filtering, resizing, etc.) and data analysis is what is done to the data to finally answer the question you set out to answer (i.e., any statistics, validation efforts, etc.). In this checkpoint we want to see everything you concretely have on your processing/analysis efforts written out as finalized as possible.

TP Checkpoint 4 – 4.1 Analysis of Results, 1.0 Abstract (week 7)

By this point, teams should strive to have some concrete results with a good indicator of what they mean. For this checkpoint, we want to see as many final visualizations as possible that will go in the tech paper and what they mean both scientifically (i.e., "45% of the region was scarred in the wildfire") and in terms of community concerns & project objectives. What errors did you have, and what uncertainty is there in your results?

Once this is done, teams will have all the pieces to write an abstract. We will need a draft of the abstract so we can finalize it for the poster FD due during week 8. This shouldn't take too long as it is just a simple summary of the project (brief background to the problem, the methods used to tackle the problem, and what the final results and conclusion on it are). This can serve as a great project goal from the start of the term ("We as a team will have our abstract created by week 7.")

Finally, if not already done, teams should try to have their entire methodology section (section 3) completely finalized.

TP Checkpoint 5 – 5.0 Conclusions, 4.2 Future Work, Errors/Uncertainties, & Other Visualizations (week 9)

In this checkpoint, teams should just about have their conclusions wrapped up. This week is busy, but
 We need conclusions to be as final as possible. What was the total sum of your project? What is the final answer to the questions you set out to answer? At this checkpoint the teams will have a working draft of every body-section of the tech paper. The rest of the term can be spent cleaning up sections and making all of the sections flow cohesively.

All Tech Paper visualizations in the body of the paper (i.e., study area and results images/maps) should be in the tech paper at this point if they are not already.

TP Checkpoint 6/Final Draft – 7.0 Glossary, 6.0 Acknowledgements, 9.0 Appendices, 8.0 References (week 10)

This checkpoint is the calmest one, all of the non-content sections should be *complete and polished*. Much of this is copy/paste or should be already done. Quick note on the glossary, this should not be solely acronyms. For this, go back through what you have written and put a definition for every word that is technical jargon, area specific, or an acronym. If in doubt, put it in the glossary. Hurray! Every section of the paper is now done.

Presentation Checkpoints

<u>Presentation Checkpoint 1</u> - **Study Area, Study Period, Objectives, Partners, Comm Concerns (week 3)**

This checkpoint goes in tandem with Tech Paper Checkpoint 1. In this, we should have preliminary slides on Study Area, Study Period, Objectives, Partners, and Community Concerns. In this we understand that this may require some visualizations/partner media. If that is not in hand it is ok to put in *partner image here*. We mostly want a layout and content.

<u>Presentation Checkpoint 2</u> - **Satellites, Methods (week 6)**

This checkpoint goes in tandem with Tech Paper checkpoints 2 & 3. Here, we need as final as possible slides on methods and EO's.

<u>Presentation Checkpoint 3</u>** - **Results, Errors/Uncertainties (week 7)****

This checkpoint goes in tandem with Tech Paper checkpoint 4. Here, we need as final as possible slides on results and errors/uncertainties. *****This is an optional checkpoint. If you would like this to be reviewed, contact your PC POC via teams or a 'tag' on the presentation file. ***** If you elect to not complete this checkpoint, this section will be with the FD the next week.

<u>Presentation Checkpoint 4</u> - **Future work, Conclusions, Acknowledgments, and other visualizations. (Week 8)**

This is the last checkpoint. Here, we need final slides on Future work, Conclusions, and Acknowledgements, and ***all slides buttoned and polished.*** This is going to serve as the presentation FD due date.

Creative Communications Deliverable Checkpoint

<u>Video Checkpoint 1</u> - Outline and Video Intro, Community Concerns, and DEVELOP/NASA Graphics (Week 7)

This checkpoint is only for teams creating a video, other creative communication deliverables do not have a checkpoint this week. Consider it as a rough draft for videos. Teams creating videos should submit a full Video Outline and a few pieces of the actual video: Intro, Community Concerns, and DEVELOP/NASA Graphics.

<u>Checkpoint 1</u> (Non-Video) <u>& 2</u> (Video) - (Week 8)

This checkpoint is required for *all types of CC deliverables*. It serves as an opportunity for you to check in with the Comm Team about your progress toward a FD and vice versa. At this point, teams creating videos should have begun incorporating feedback and edits from the Comm Team. All teams are also encouraged to leave comments and questions for the Comm Team throughout their deliverable.

<u>Non-Videos</u>

- The is the first and only checkpoint for all non-video creative comm deliverables. You should reach out to your Comm Point of Contact to share your team's outlined ideas/concepts and ask questions about working toward the FD.

<u>Videos</u>

- Consider this Rough Draft 2 for videos. At this point, teams should have more clips gathered for their video and are required to create a Citation Log RD. The Climax, Solution, Results/Conclusions of your video are due.

<u>Final Draft (All)</u> - (Week 9)

Simple enough – this is your final, polished draft of your creative communication deliverable. For videos, this includes the <u>Video RD</u>, <u>Transcript FD</u>, and <u>Citation Log FD</u>. Following last week's checkpoint, all questions you had for the Comm Team were answered earlier this week and you've incorporated all feedback into a superb public-facing deliverable. If there are any final edits, the Comm Team will be in touch during the first few days of Week 10.

Tutorial & GitLab Checkpoint Documentation

Tutorial Checkpoint 1 - (Week 5)

The tutorial checkpoint is required only for teams creating code tutorials. If your team is generating a GIS-only tutorial and will not include any code, you may skip this checkpoint and work towards your tutorial final draft submission.

For this checkpoint, you will be submitting your current tutorial draft with your Geo contact person for review. This checkpoint should include the following completed sections: Overview, Set up & Requirements (such as software and IDE), and a Breakdown of the Logic and Methods. Methods should include a general outline of your planned subsections that are relevant to your project as well as completed sub-sections where possible. We understand your methods, which may not be fully figured out yet, so focus on some of the early methods sub-sections, where you can start to add initial steps! This checkpoint should demonstrate understanding of the code Do's and Don'ts.

GitLab Checkpoint 1 - (Week 7)

For this checkpoint, teams should update their GitLab project repository with their most up-to-date script(s) and a README.md document. Review the DEVELOP_ReadMe_Template found in your project repository. Teams can use either the GitLab GUI or Git Bash to upload code. If participants have any issues updating their GitLab repository, they should reach out to their node Fellow and the Geo team.