



Lidar Business Plan

- Executive Summary
- Introduction
- Lidar Overview
- Business Plan Purpose
- Lidar Program Goals
- Lidar Benefits to North Carolina
- Estimating the Value of Lidar Benefits to North Carolina
- Lidar Standards

- Technical Requirements
- Statewide Lidar Cost
- Lidar Program Organization
- Implementation Plan and Recommendations
- Case Studies



Lidar Business Plan

• Case Studies

- Bridge watch (transportation)
- FIMAN-T (flood warning)
- Transportation
- Surveying and engineering
- Infrastructure (DEQ)
- Economic development (Person County)
- Insurance (Department of Insurance)
- Transportation (Person County)
- Emergency response (NCDOT)

- Stormwater (NCDOT)
- Project delivery (roadway, rail, and aviation) (NCDOT)
- Water infrastructure (DEQ)
- Stream mapping (DEQ)
- GEOFidelis Utilities Viewer US Marine Corps
- 911 services (Town of Cary)
- Infrastructure data provider business process (Town of Cary)
- Railroad (North Carolina Railroad Company)

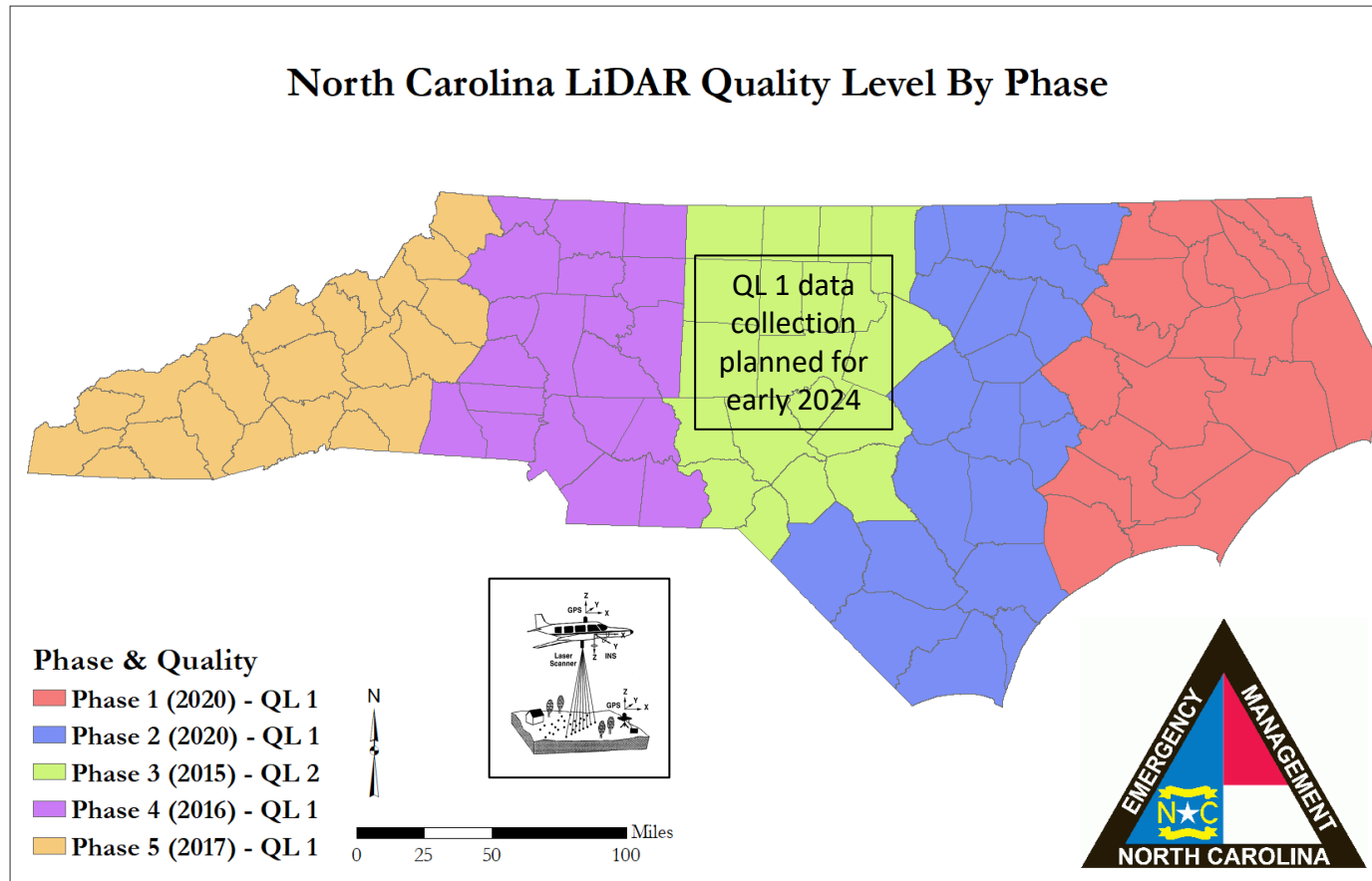


Schedule

- January 31, 2024 (complete draft business plan)
- Submitted to the Working Group for Orthoimagery & Elevation for review and comments
 - Review Working Group comments and make any needed revisions
- Present to SMAC for review and comments
 - Review SMAC comments and make any needed revisions
- Submit to the SMAC for approval



NC Light Detection and Ranging (LiDAR) Elevation Data



NAD83(2011), NAVD88, and US Survey Foot will be used to collect new LiDAR data in Phases 3, 4, 5

The new datums and the International Foot will be used when we start the 4th phase of statewide LiDAR data collection

QL = Quality Level





North Carolina Emergency Management: LiDAR Story

North Carolina Emergency Management: LiDAR Story

Hannah Swartz, NCSU | John Lay, NCEM

[What is LiDAR?](#) [North Carolina Emergency Manag...](#) [Timeline of LiDAR Data Acquisi...](#) [Spatial Data Download Website](#) [Study Example: LiDAR to Flood ...](#) [Created by NCSU, Hannah Swartz...](#)

The image shows a screenshot of a web browser displaying a LiDAR visualization of a residential area. The visualization uses a color scale where green represents lower elevations and yellow/orange represents higher elevations, such as rooftops. The browser's address bar shows the title 'North Carolina Emergency Management: LiDAR Story'. Below the visualization, the main heading 'North Carolina Emergency Management: LiDAR Story' is displayed in a large, bold font, followed by the authors 'Hannah Swartz, NCSU | John Lay, NCEM'. At the bottom of the page, there is a navigation menu with several links: 'What is LiDAR?', 'North Carolina Emergency Manag...', 'Timeline of LiDAR Data Acquisi...', 'Spatial Data Download Website', 'Study Example: LiDAR to Flood ...', and 'Created by NCSU, Hannah Swartz...'. The browser's interface, including a search bar and navigation icons, is visible at the top.