NORTH CAROLINA
Department of Transportation

Direct, Indirect & Cumulative Effects for Division Managed Projects

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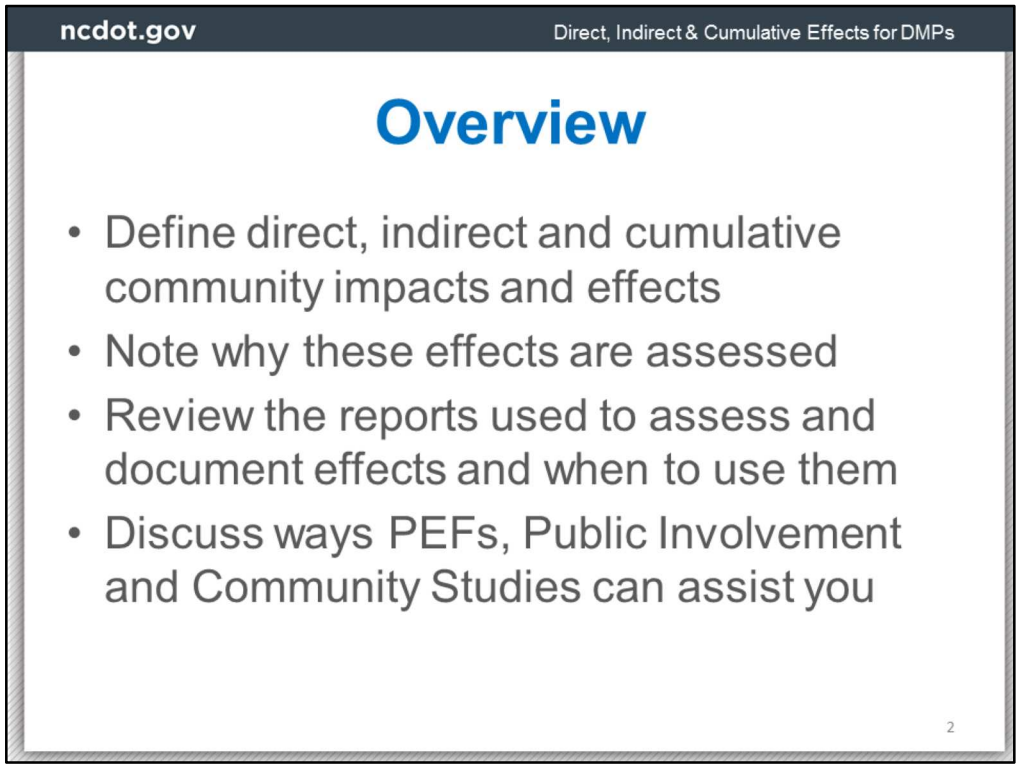
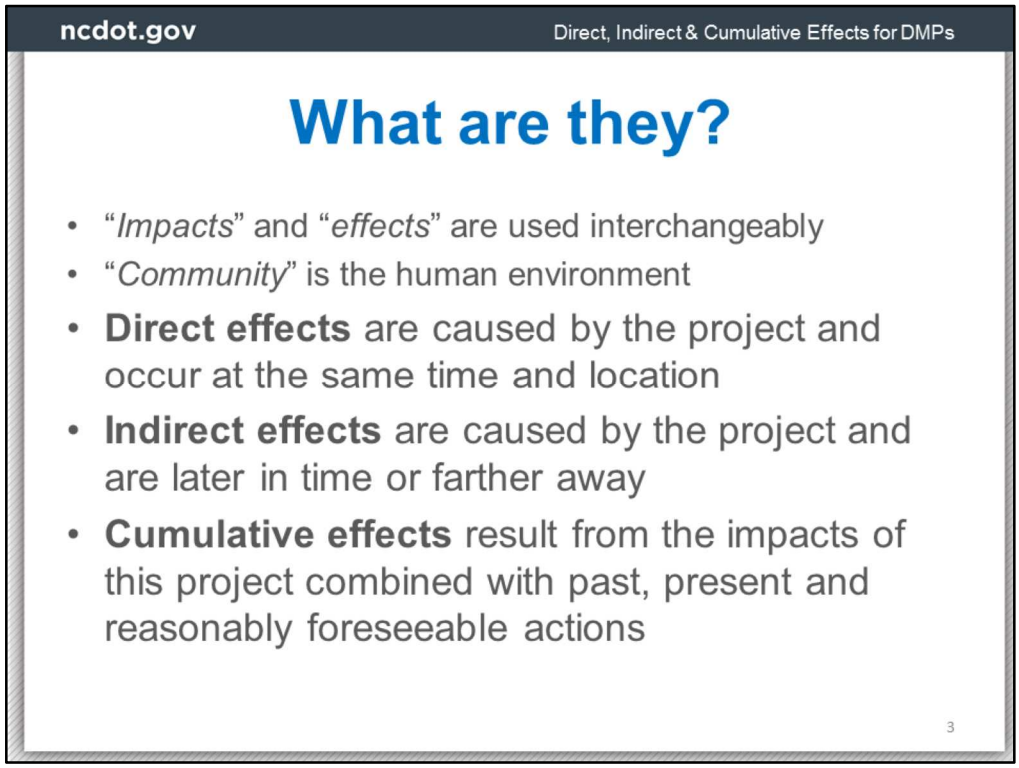
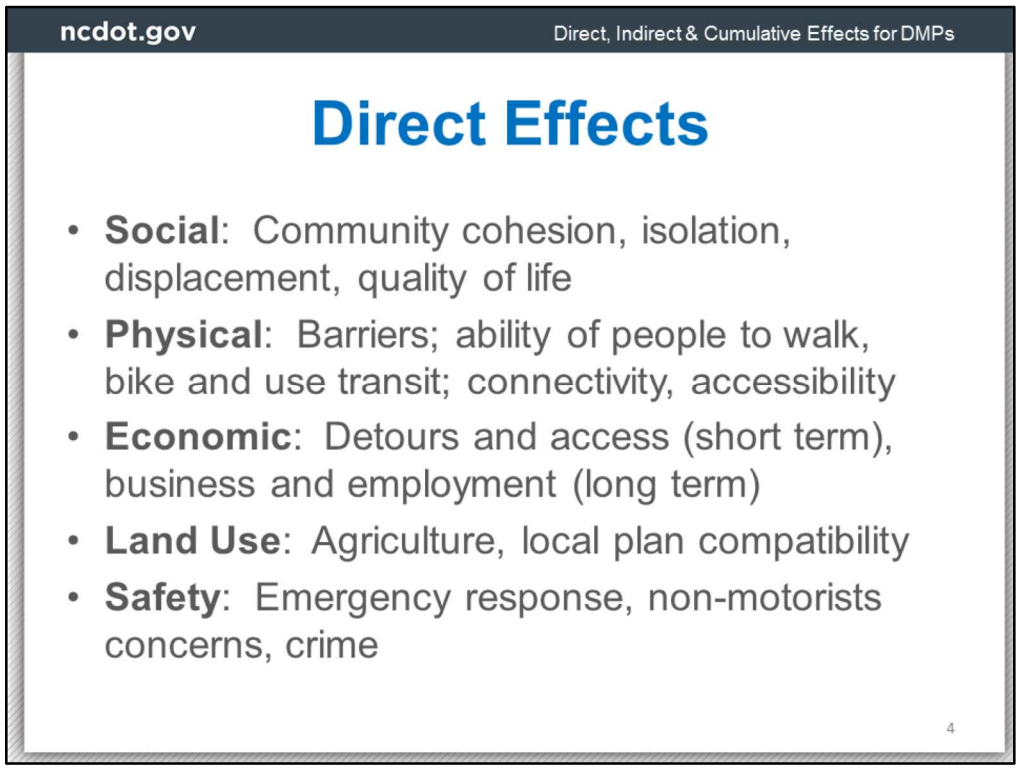
February 21 & 23, 2017



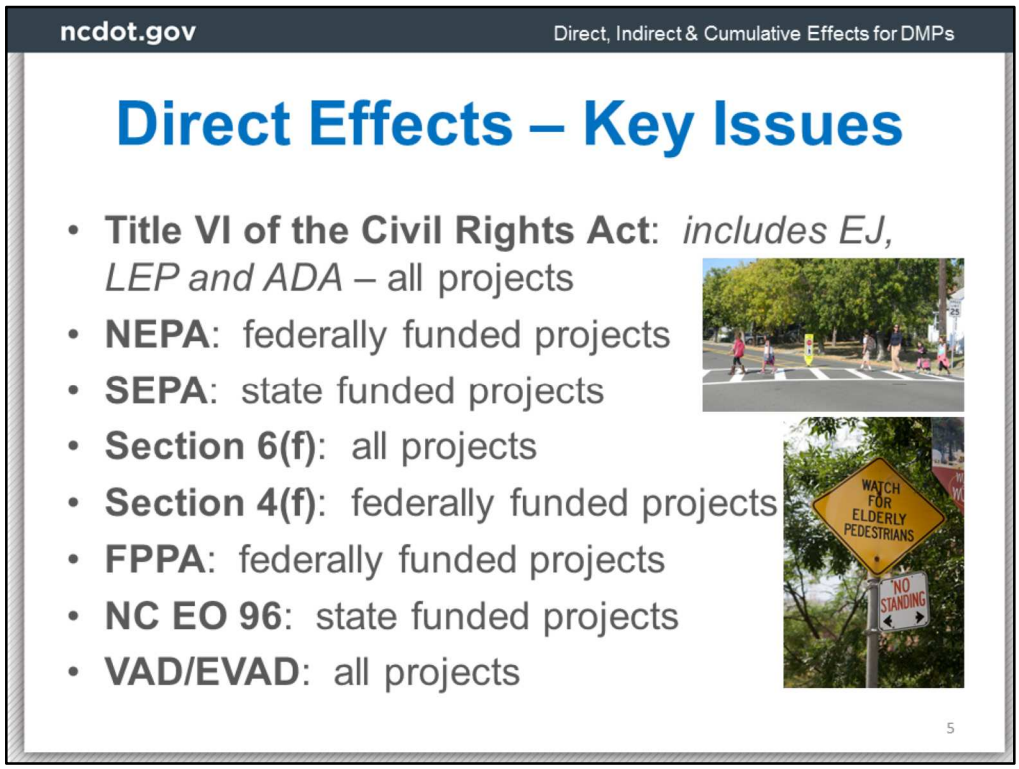
Go over the basics of impact type
Highlight a few legalities behind the effort
Discuss the tools CS has and is developing
Finally propose some ways that GECs, other consultants, central PI and CS can function together in this framework



Positive or negative
Direct – relocations or providing a median refuge for pedestrians
Indirect – causing owner to renter, making an area attractive for industry or commercial development



Some are objective
Some are subjective
Many are relative to the local context
Detours for example

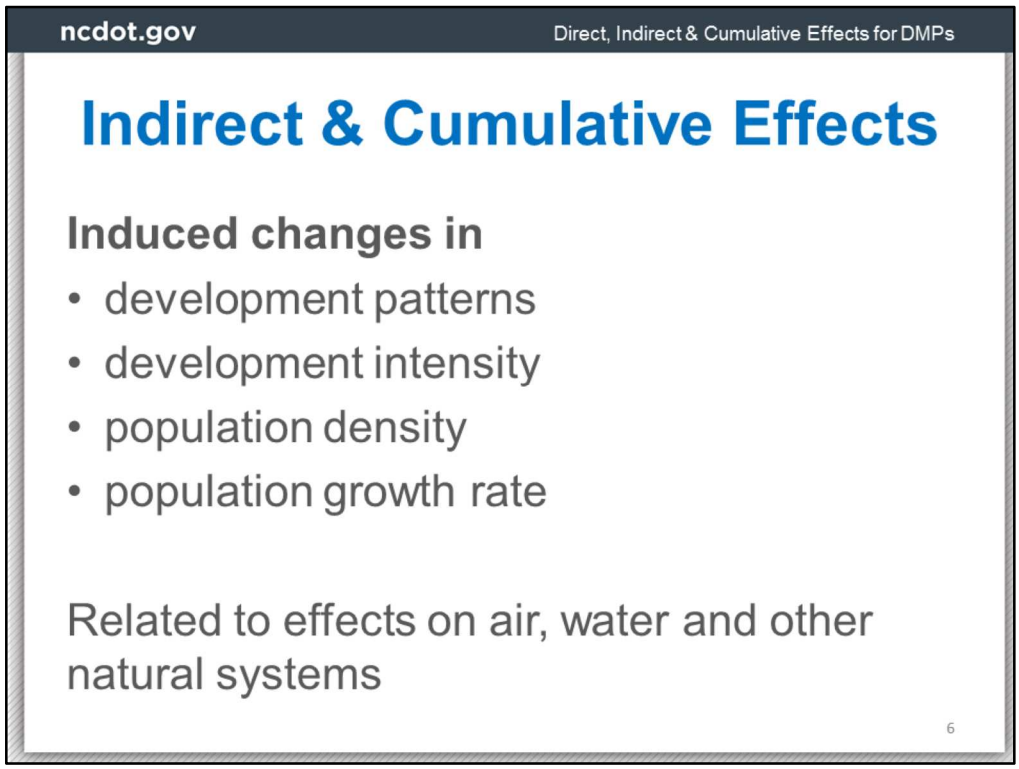


The legal whys. Community input through the community effects process and PI creates effective transportation decision-making
and provides important information to NCDOT

Title VI of the Civil Rights Act includes Environmental Justice, Limited English Proficiency and Americans with Disability Act
Language includes disparate effects, disproportionately high and adverse impacts, to low income, disabled, elderly and others
With different accessibility needs, as well as minorities and ethnic groups

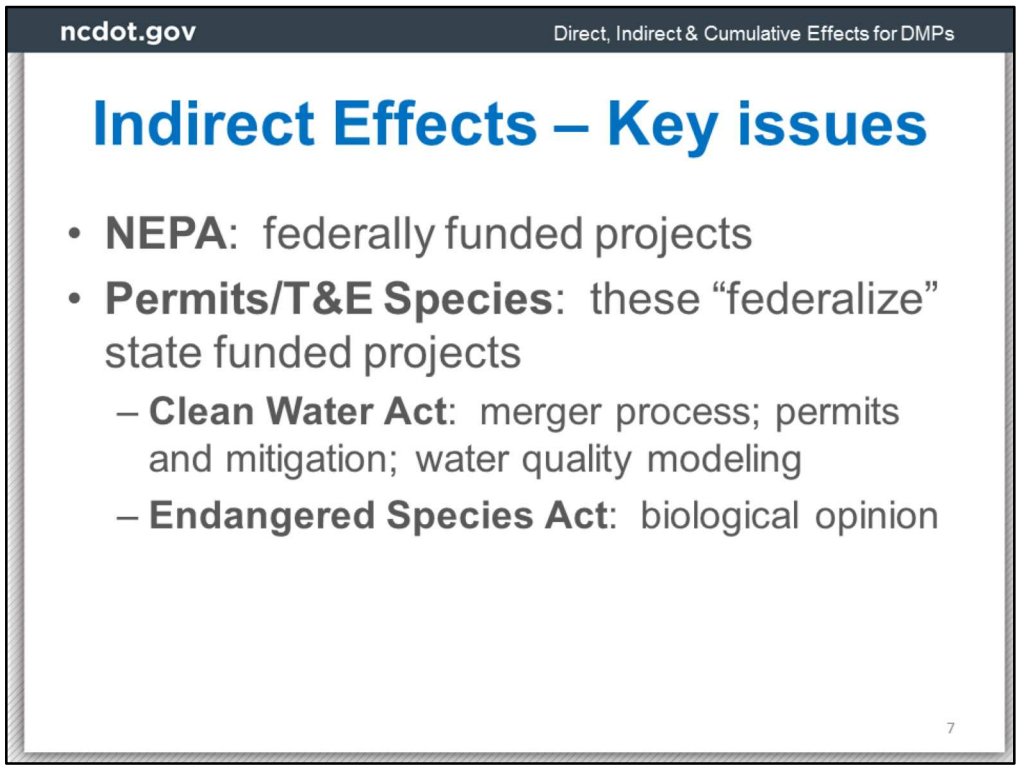
Section 4(f) here is recreational uses only – not historic

VAD only matters with involuntary condemnation so its usually just a heads up



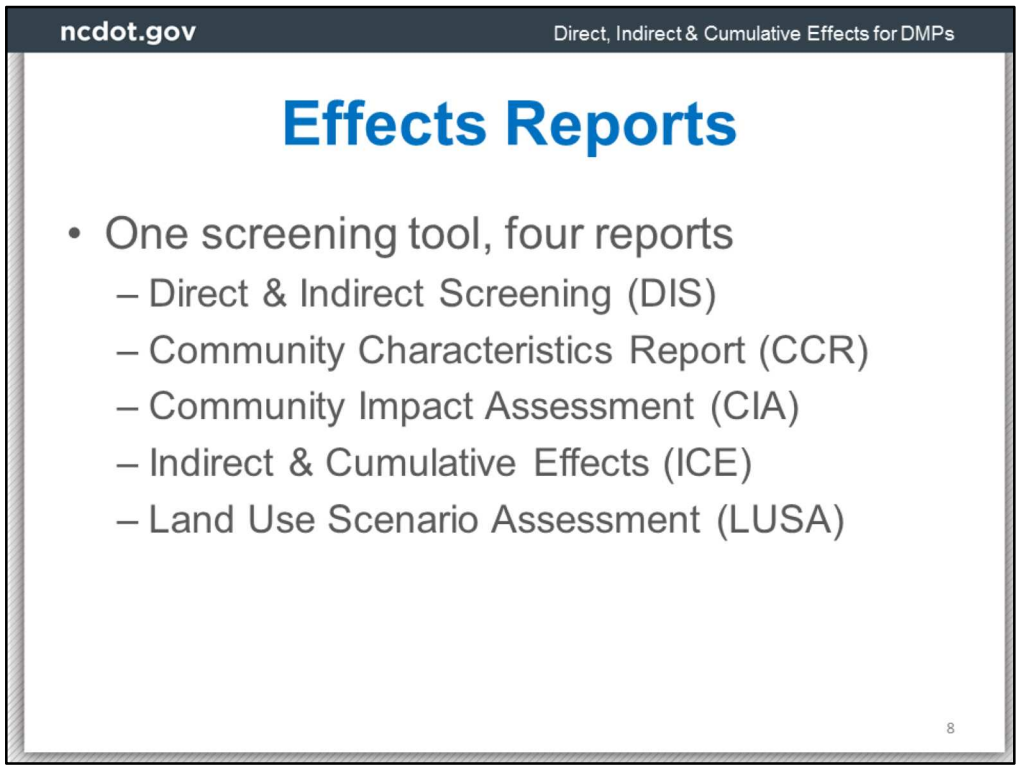
Basically ICE involves looking for a notable difference between build and no build development populations and patterns

CS looks at roof tops so NES can estimate runoff for permits



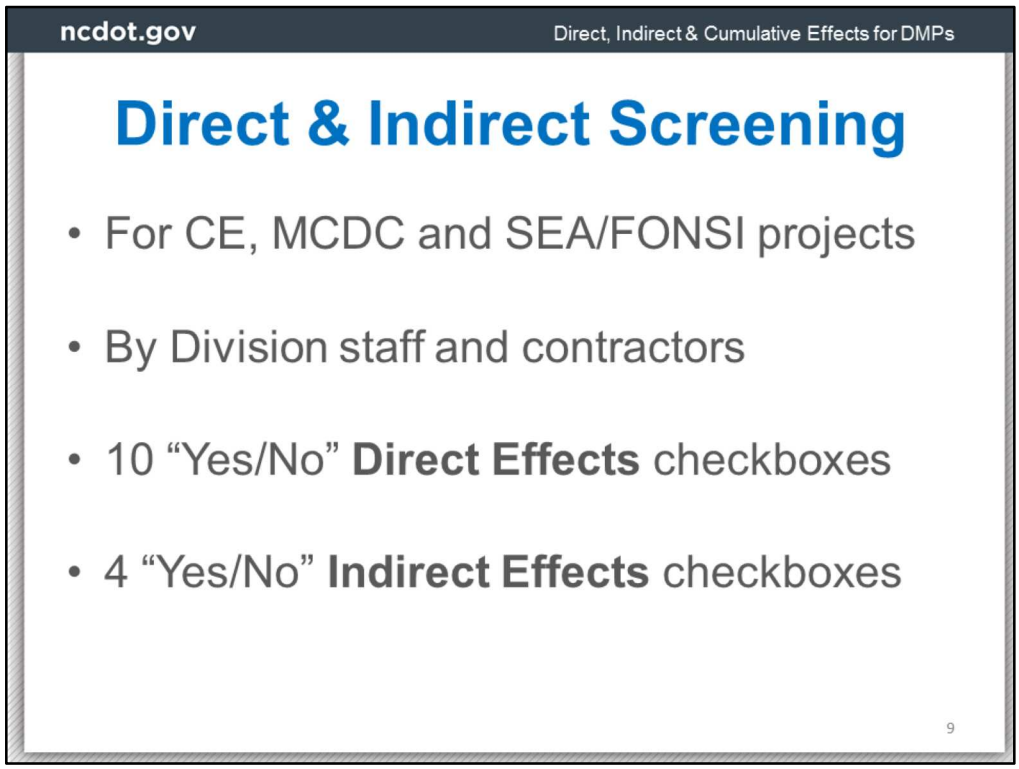
Federally funded projects usually must complete an ICE as part of NEPA

SEPA does not require ICE unless something federalizes the project



"Effects" not included in name to avoid the acronym DIES. The DIS tool is in progress and will be field tested next month.

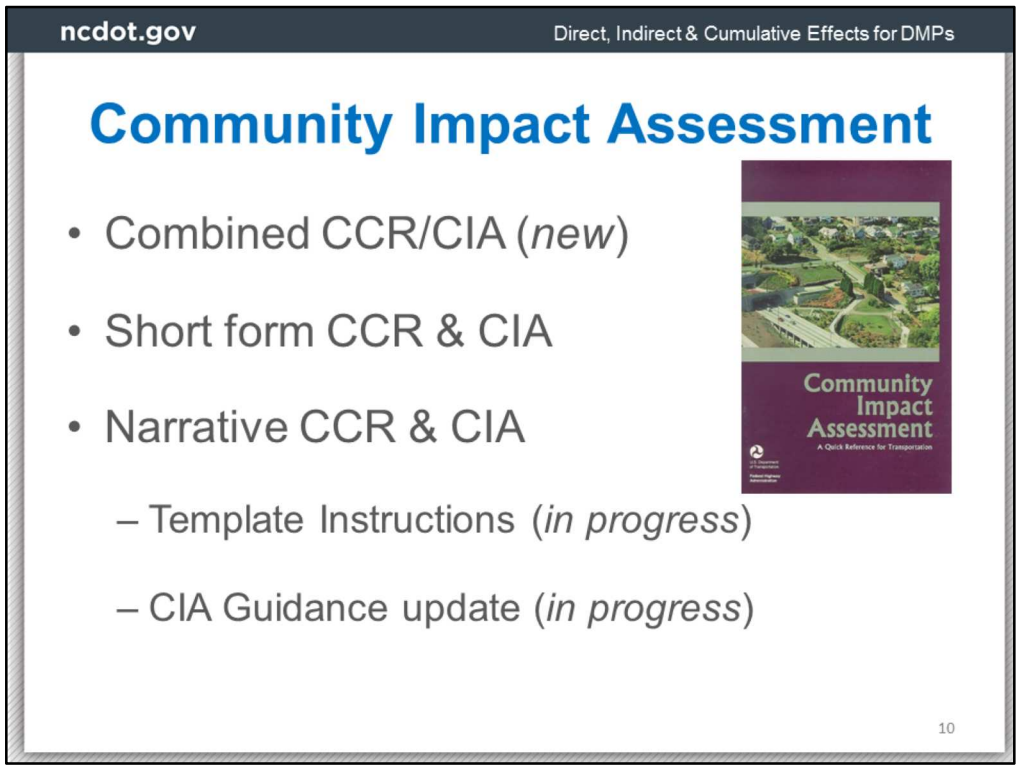
This may look like a lot of reports but these are scaled to reflect potential project impacts. Our right sizing effort over the past year plus
Has aimed at eliminating unnecessary effort while still assessing and documenting what matters to our customers, meaning both
Citizens and regulatory agencies. Our goal for DMP reports is news you can use.



"No" documents effort; done
"Yes" = complete applicable CIA questions
Local input forms when detours proposed

"Yes" to any = ICE if federally funded to federalized by a permit

Our beta tests with DMPs leads us to believe that the majority of small, simple projects will be fully assessed and documented by this screening tool alone.

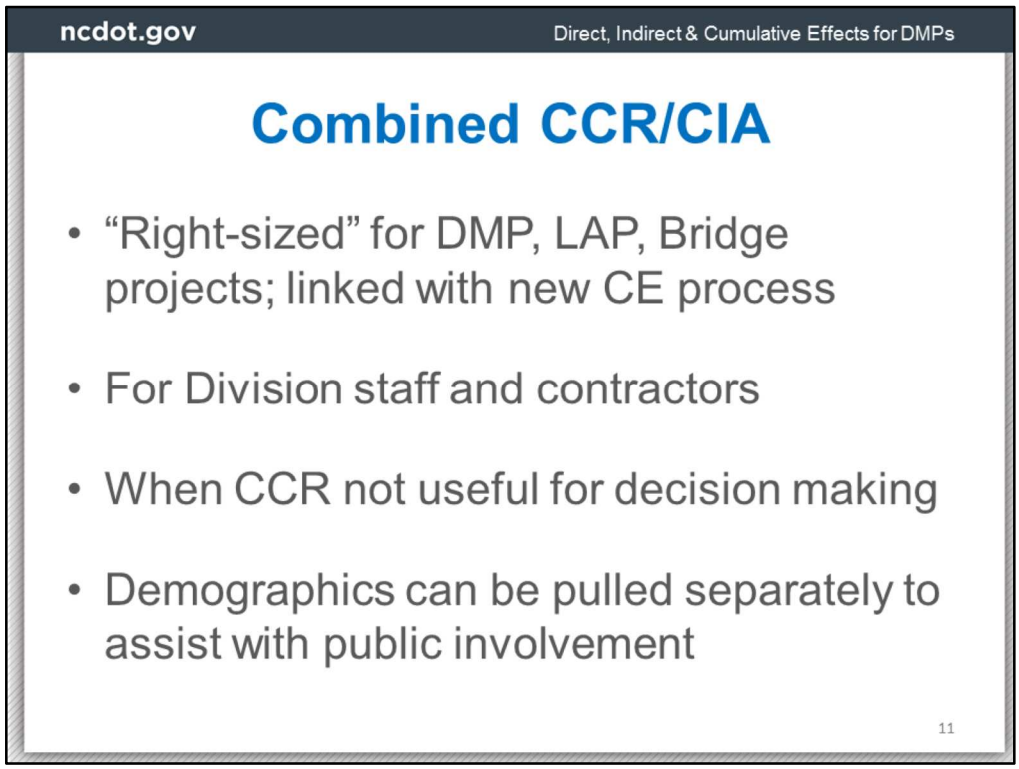


The combined CCR/CIA template – and we are working on a more catchy name – not only put the CCR and CIA together
But combined the existing Bridge CIA template with our recently developed DMP CIA.

The different types of reports are aimed at being a best fit for projects with different levels of complexity – not based on
The document type but specific to the human environment. Some rural projects may have a lot of natural environment concerns
that drive the document type to be used, but the human side may be fairly simple and straightforward.

Conversely, a very
Urban project may have no creeks or critters but very notable human impacts.

Overall the presumption at this time is that the majority of DMP projects that go past screening will use the combined, that the
Majority of narrative CCRs & CIAs will be done by Central, and that short forms will be the norm for the average NEPA/SEPA project
That is likely to have some impacts.



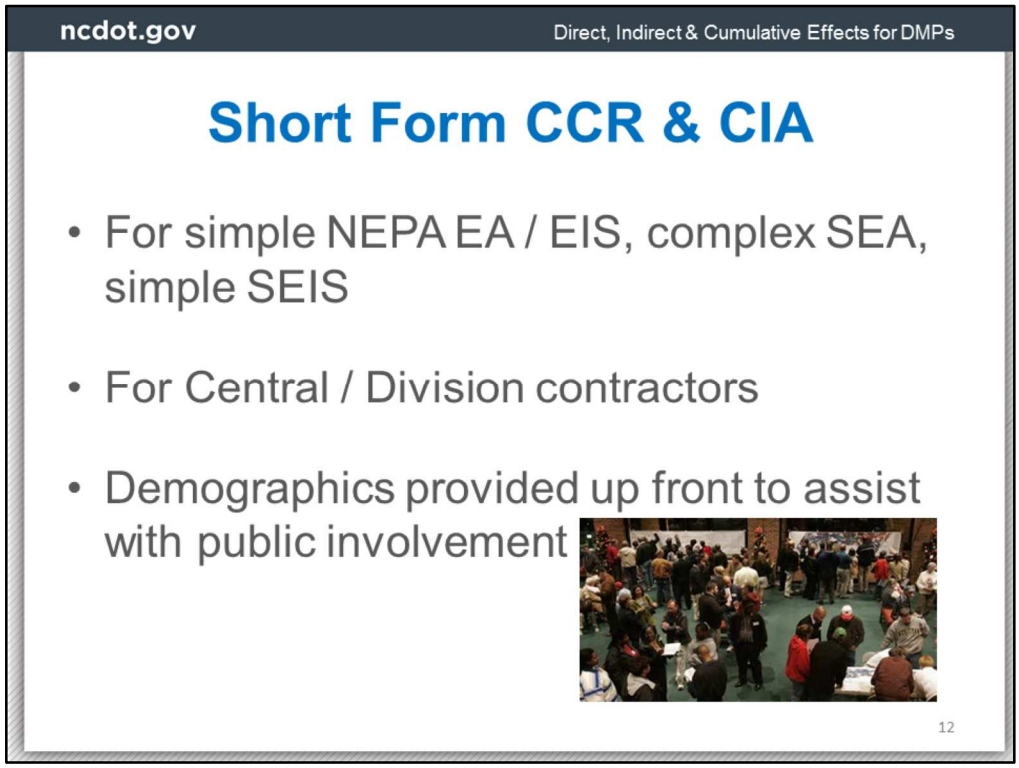
As needed based on screening - may be done as in whole or in part, depending on project needs. Farm operations impact only, that's the only section needed. Relocations look at specific questions and demographic data because Title VI may be involved. The CIA process has been reversed for simple projects, meaning resources and demographics are documented only AFTER potential impacts have been identified.

Several checkboxes in CIA directly answer checkboxes in new CE form and also document that a project meets state minimum criteria.

Developed based on the idea that for very small or very

simple projects, where minimal impacts are expected, and where design options are limited, documenting community resources and characteristics pre-design will not help with selecting the preferred alternative

This is likely to become the most common CIA template for DMP projects when documentation of assessment is needed for the document but impacts are expected to be low or absent.



Used when CCR will be useful for decision making

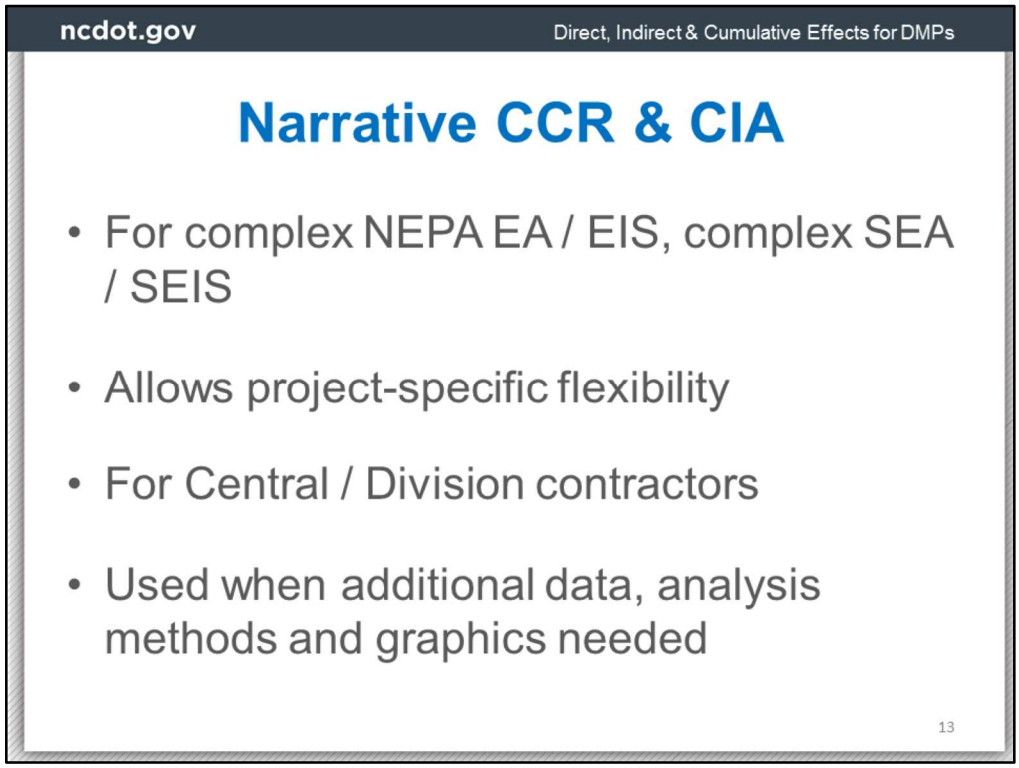
Assess the community value of resources

From a ROW standpoint there may be a church or store on both sides of the road and these appear to be the same but the value of each to the community may be different

Aids in PI efforts

Helps determine whether relocations are simply ROW effects mitigated through the regular acquisition process or that they rise to the level of community

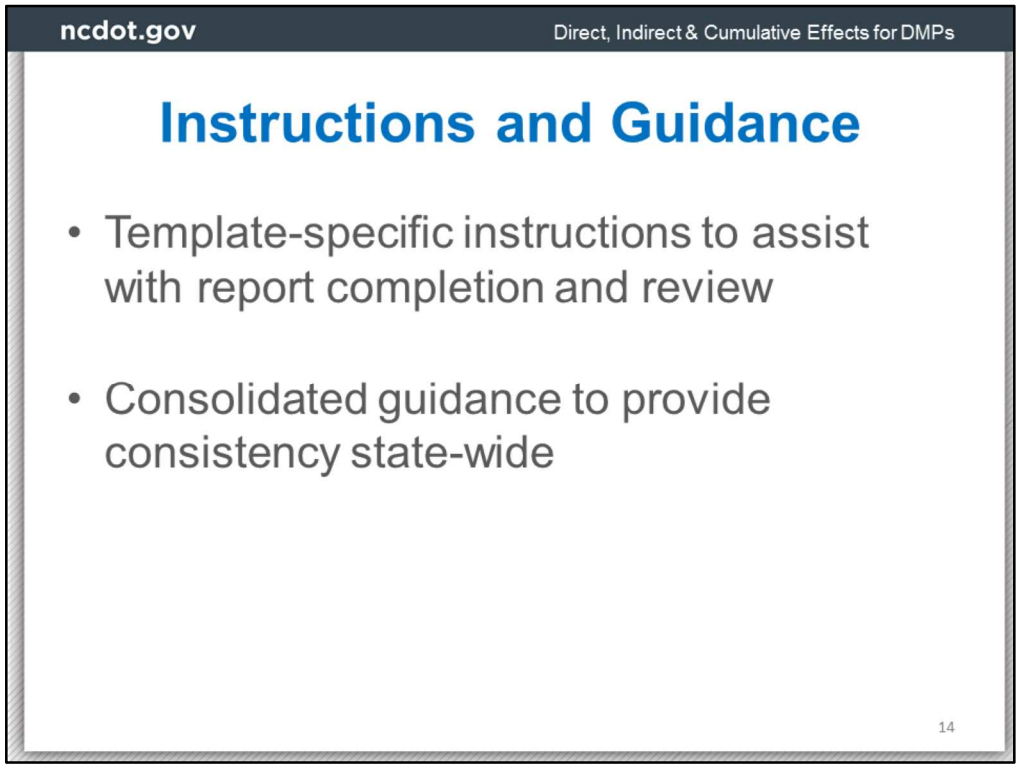
impacts that might require additional avoidance, minimization or mitigation measures.



Very rarely used for DMPs – aimed at the most complex projects for the human environment, not the natural

Complete 540, Kinston Bypass, US 401 widening, I-26, Bus 40

The flexible format helps compare apples to oranges alternatives when community resources and potential impacts vary greatly from alternative to alternative



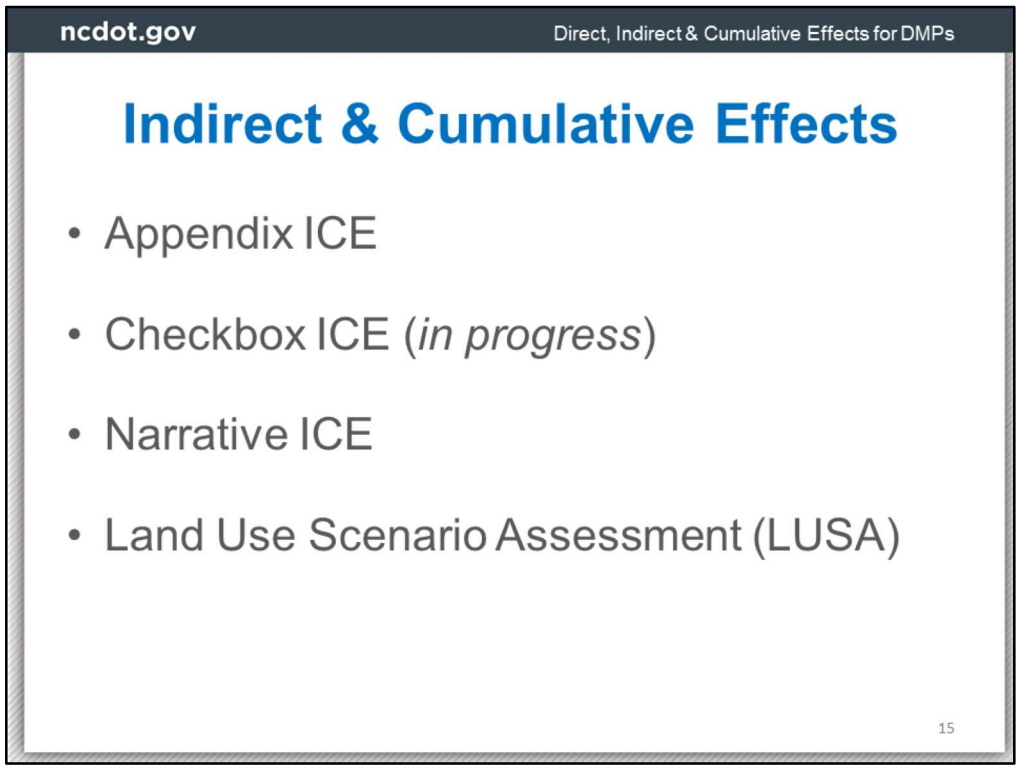
Instructions - How-to "desk reference" – this is something the analyst will keep beside them as each report is prepared.
Statewide consistency is important from a legal standpoint

Guidance - Greater depth and more detail covering all levels of reports.
Textbook for training
Encyclopedia for practitioners

Additional tools are available on our Connect site including a

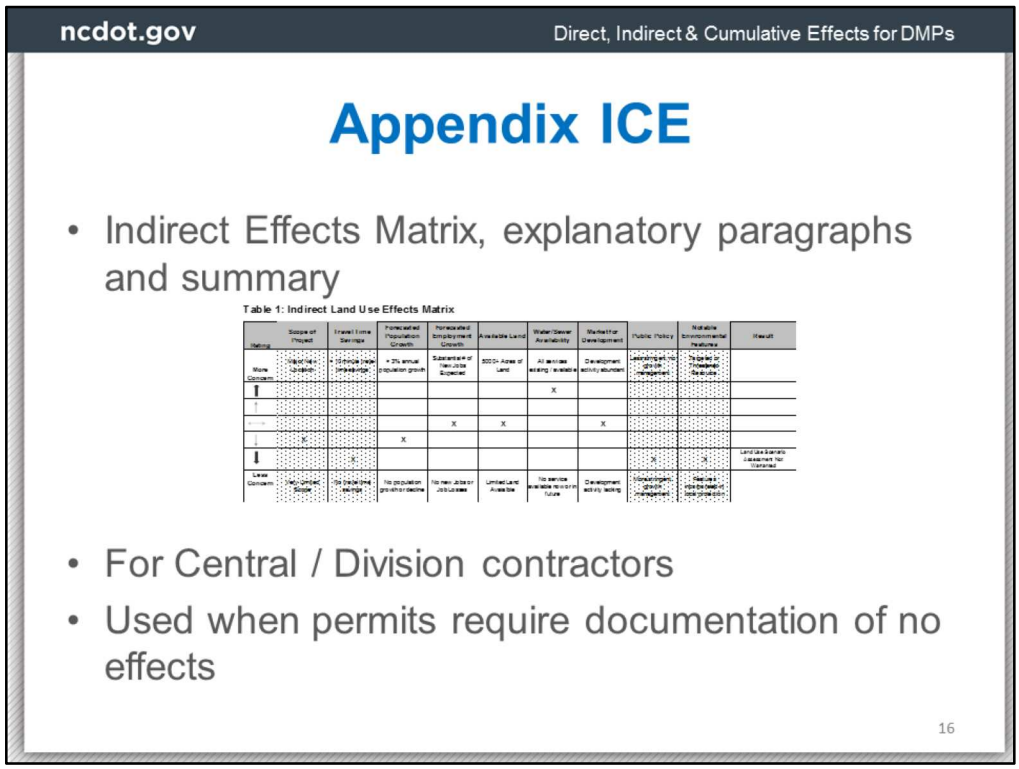
Demographic tool

Growth estimator
Local input forms



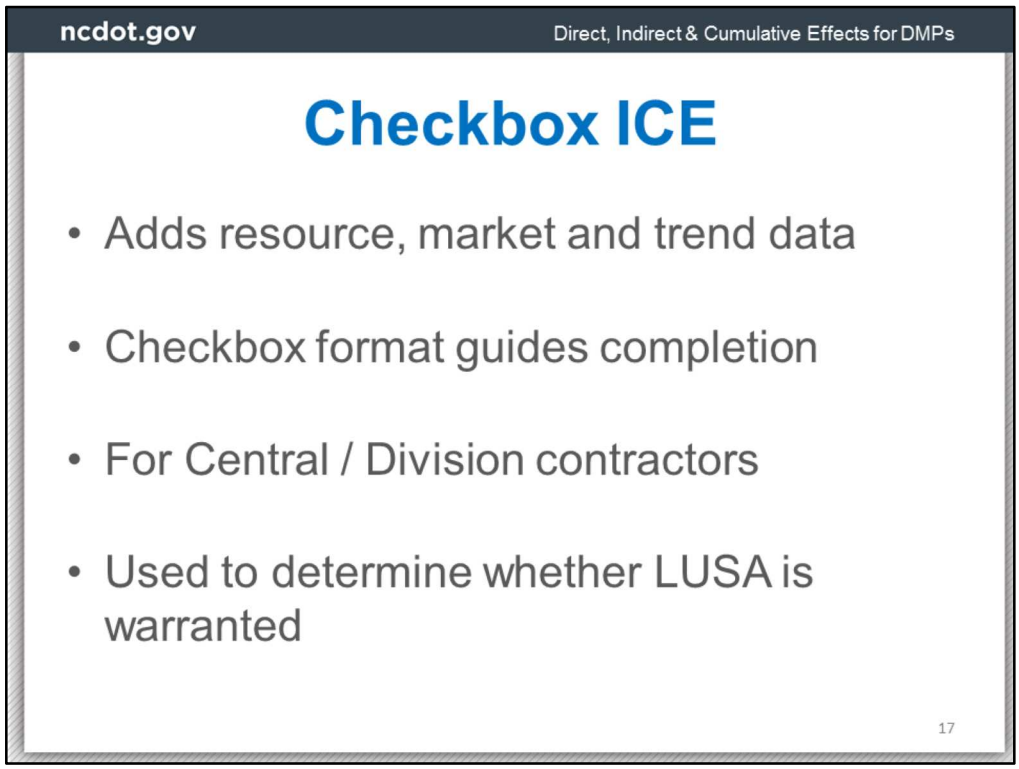
The first three ICE templates align with the three types of CIA, based on level of analysis and documentation required based on project complexity

A LUSA is a special report that is usually not needed but may be required for some permits



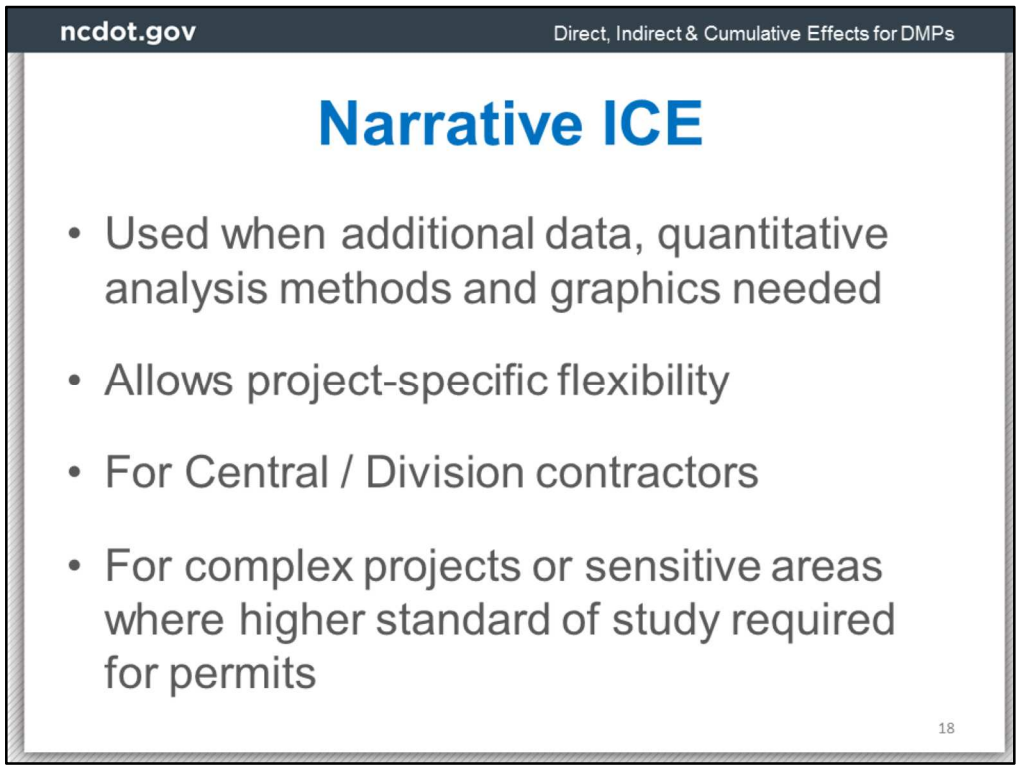
Roughly 10 to 12 paragraphs explaining matrix

This is likely to become the most common ICE template for DMP projects when documentation of assessment is needed for the document but no further work should be needed for a permit

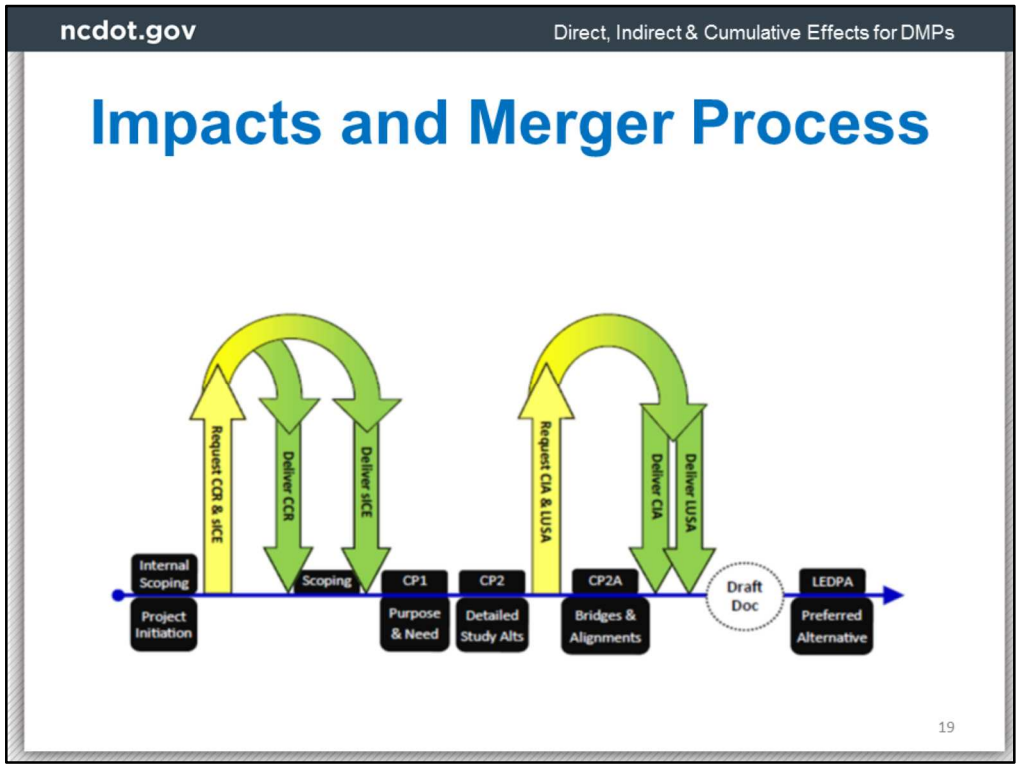


Guide completion - "No" stop, go to next section
"Yes" complete this section

We expect this new template to become the norm for projects where a permit is anticipated, replacing the longer narrative ICE



Much like the narrative CIA, a narrative ICE offers more detail and greater format flexibility for larger, very complex projects like Complete 540, Kinston, Carolina Bays, etc.

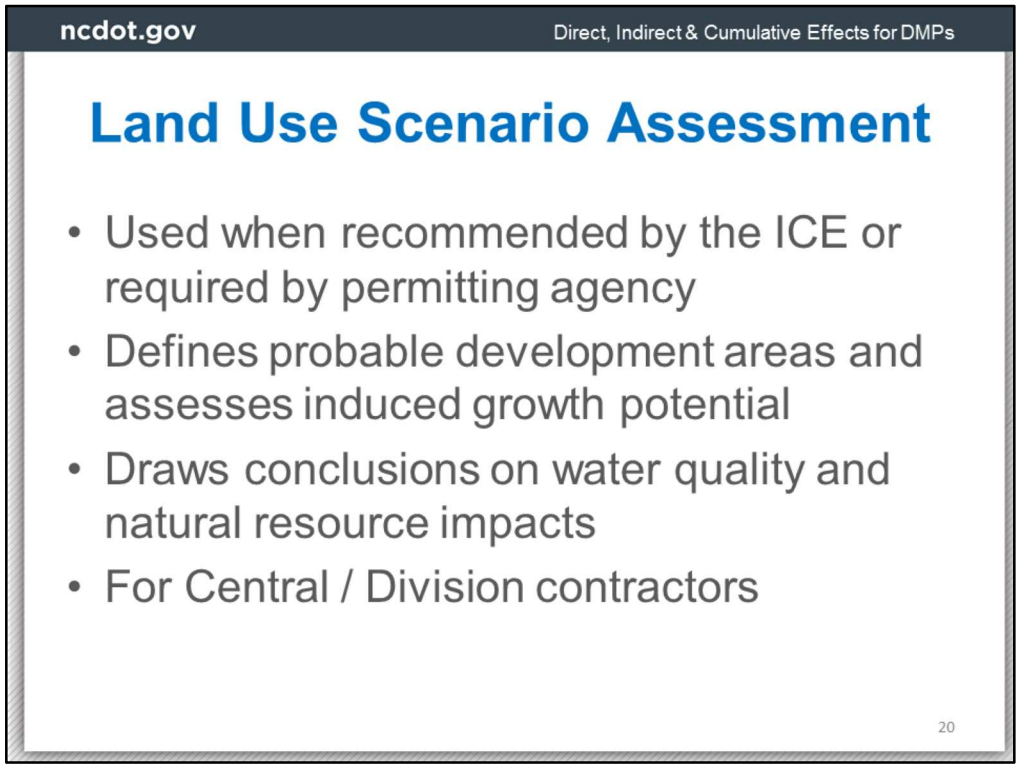


This slide is included only to show how CS reports fit in with the overall Merger process.

We like to start the CCR and ICE at the same time, and on the rare occasion a LUSA is needed it should be initiated with the CIA

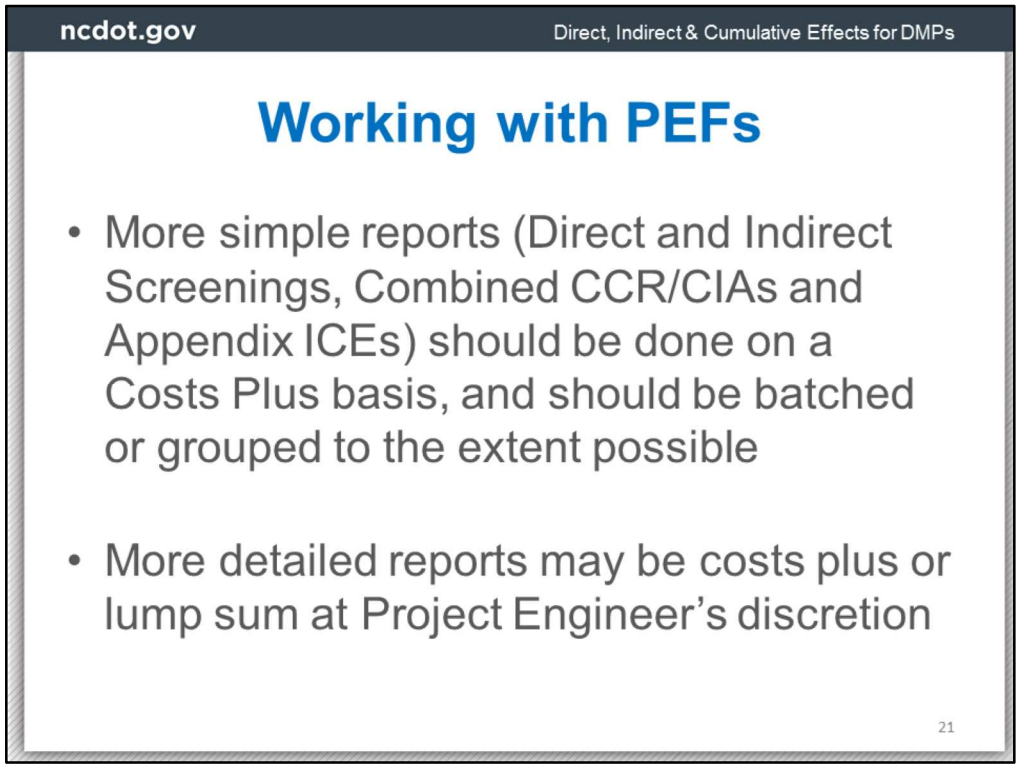
While they feed different decision points, they can be reviewed and delivered together.

Doing this allows for combined field work, stakeholder contacts, local plan reviews, etc. so overall it is more efficient when started together.



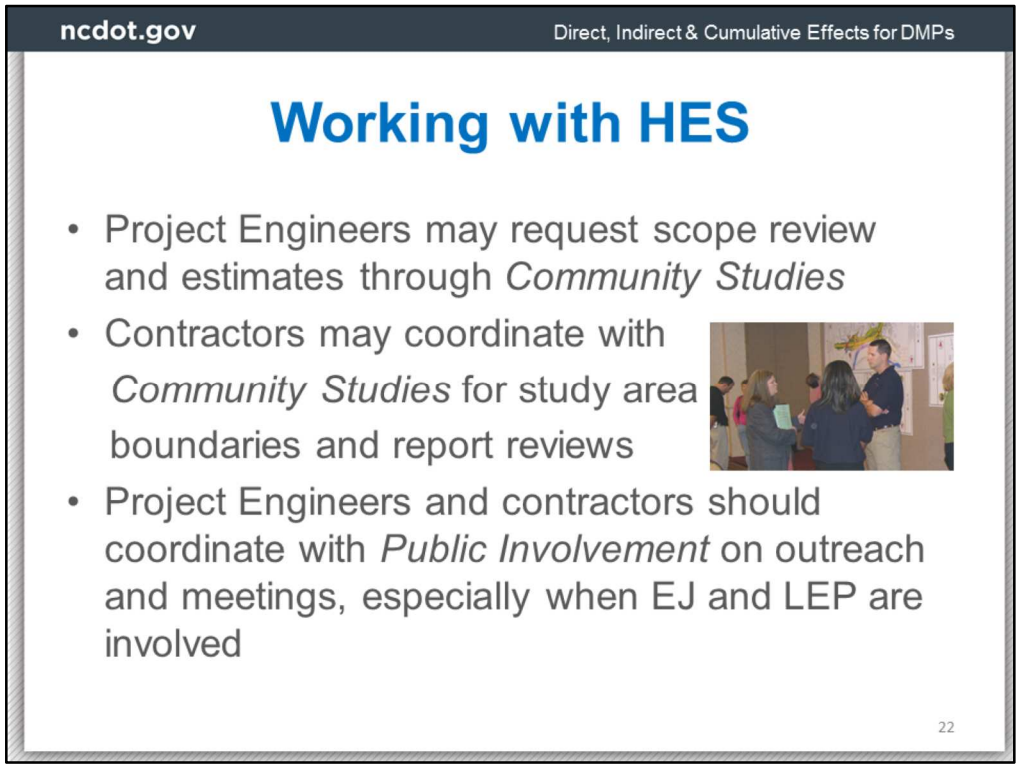
Compared with an ICE assessment of a large study area as a whole, a LUSA is more quantitative and focused on small areas where the most development is anticipated

This allows NES and permitting agencies to determine where development may impact sensitive resources



The first bullet mostly applies to GECs

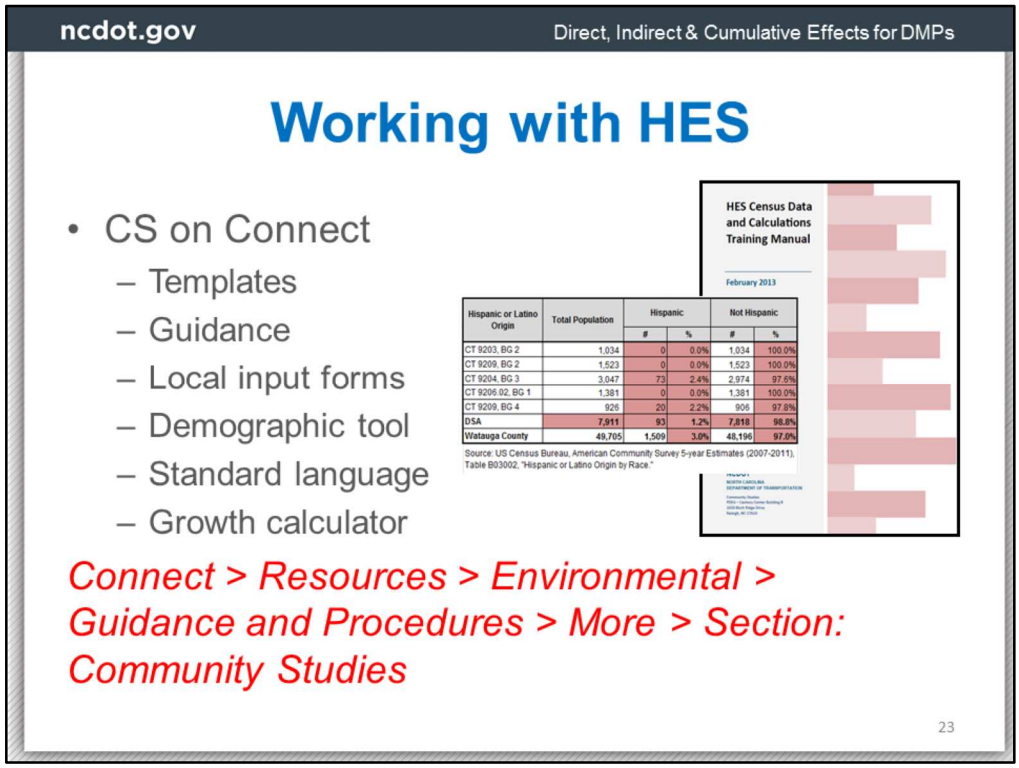
The second bullet applies to both GECs and on-calls



For the past several months we've been steadily shrinking the size of study areas as part of right sizing efforts

Currently we use a combination of our contractors and staff to review reports but we will adjust as needed if you decide to use your GEC + CS staff – your call

There will always be some projects that don't cleanly fit in a category so please do not hesitate to loop us in to discuss the best approach



Scope reviews – CS can help right size report types and the documentation effort needed, and we're very flexible. Update memos, different kinds of PI

Always have your contractors go to the Connect site to download the latest and greatest tools, templates, guidances, etc.

Our new Demographic tool came in yesterday and should be uploaded to Connect in the near future once we've had a chance to test drive it

Working with HES

Questions?