Launch a Vulnerability Assessment

Overall Process

How is this process different?

- Goals and values-driven rather than checklist-driven
- Multi-discipline, multi-stakeholder process
- Multi-hazard, multi-regulation
- Offers way of organizing assets and approaching them systematically
- Goes beyond exposure to whatever depth you want
- Assessment tools highlight cross-disciplinary vulnerabilities
- Offers succinct and effective ways to summarize results
- Offers tools for evaluating and prioritizing strategic responses to vulnerability
- Provides templates for moving from strategies to action

Mid/Short Term/
Detailed Elements
Long Term/
Enduring Elements
Priority Actions & Projects
Strategies
Resilience Goal 1
Resilience Goal 2
Community Vision & Values

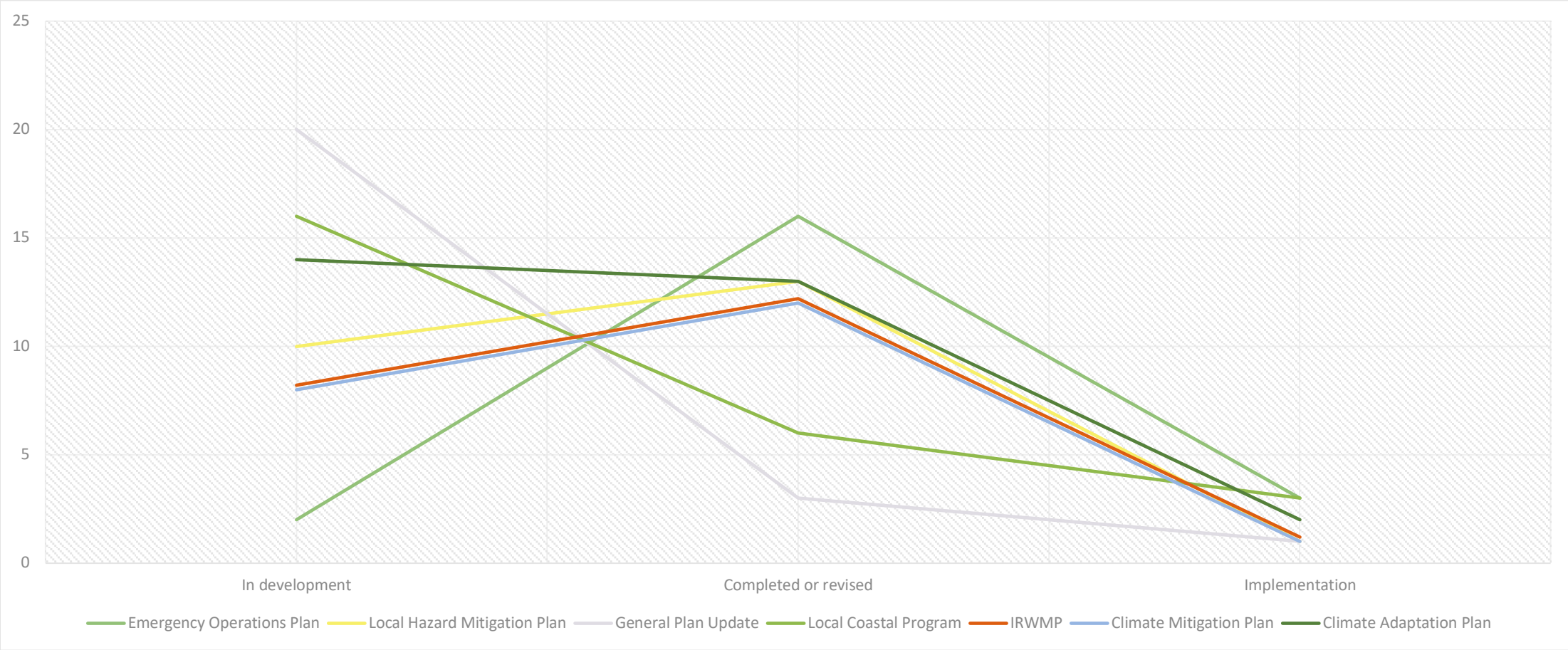
What does the toolkit include?

- Detailed guidance on 8-step vulnerability assessment process
  - What has worked and why?
  - What lessons have been learned?
  - Exactly how much analysis do you need to do to find a balance between analysis paralysis and uncoordinated action?
  - How can you tell the right “story” with your analysis to catalyze real action?
- Worksheets, exercises, handouts, resources
- Framework for conceptually and procedurally connecting hazards, disciplines, and regulatory requirements

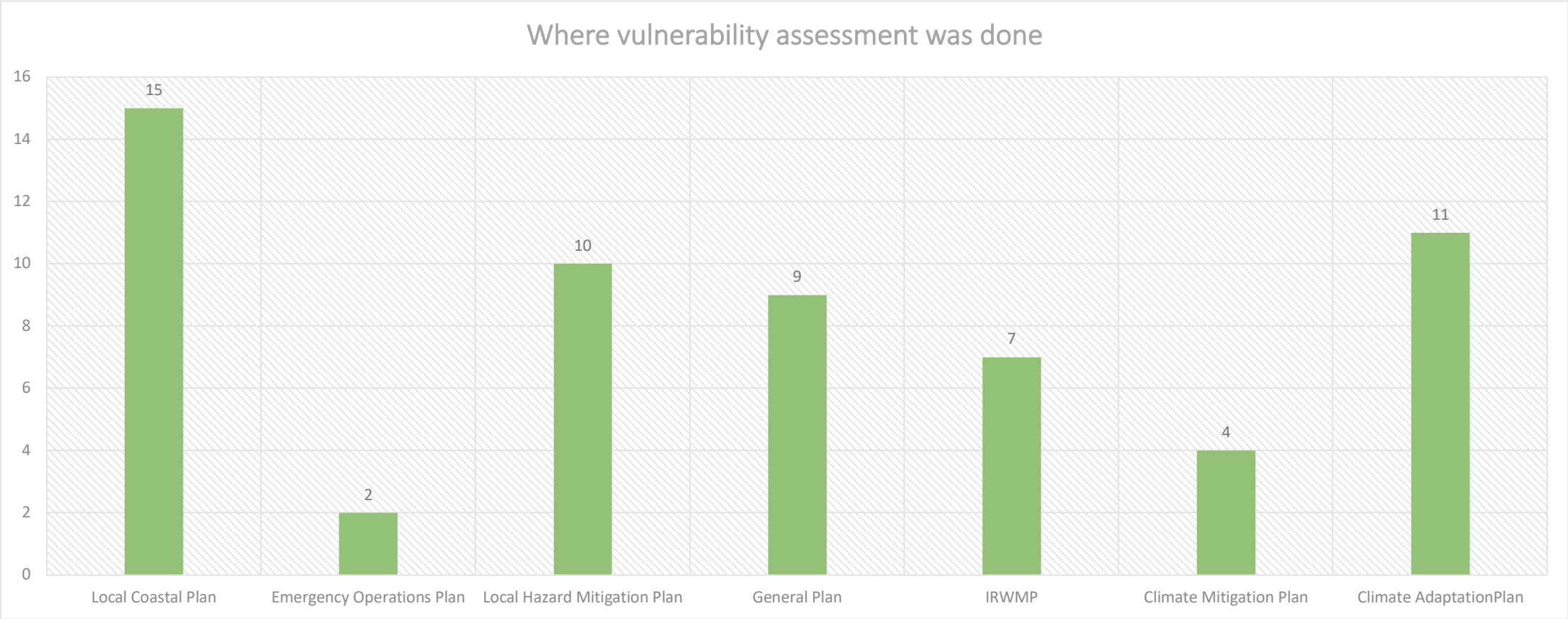
So, how does this apply to the Central Coast?

What we heard from survey participants about doing vulnerability assessments…

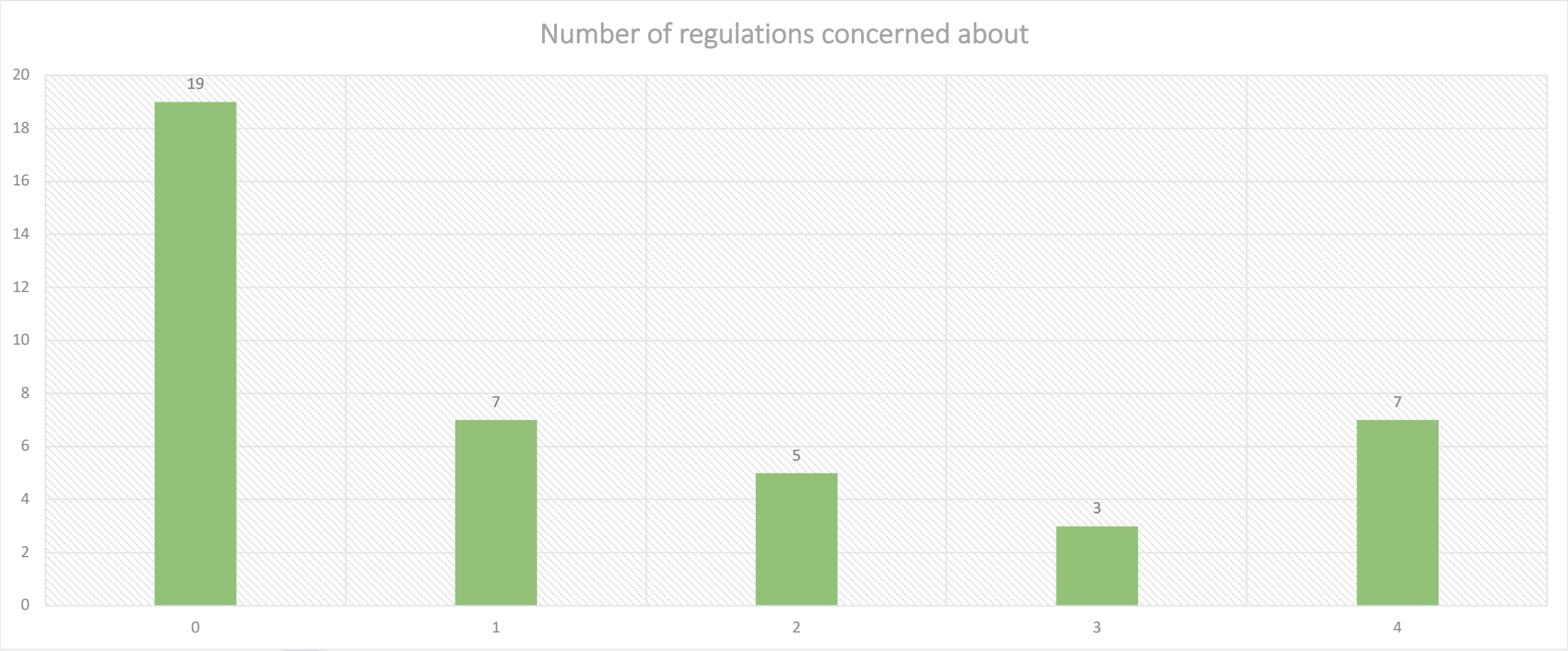
What Plans Have you Done?



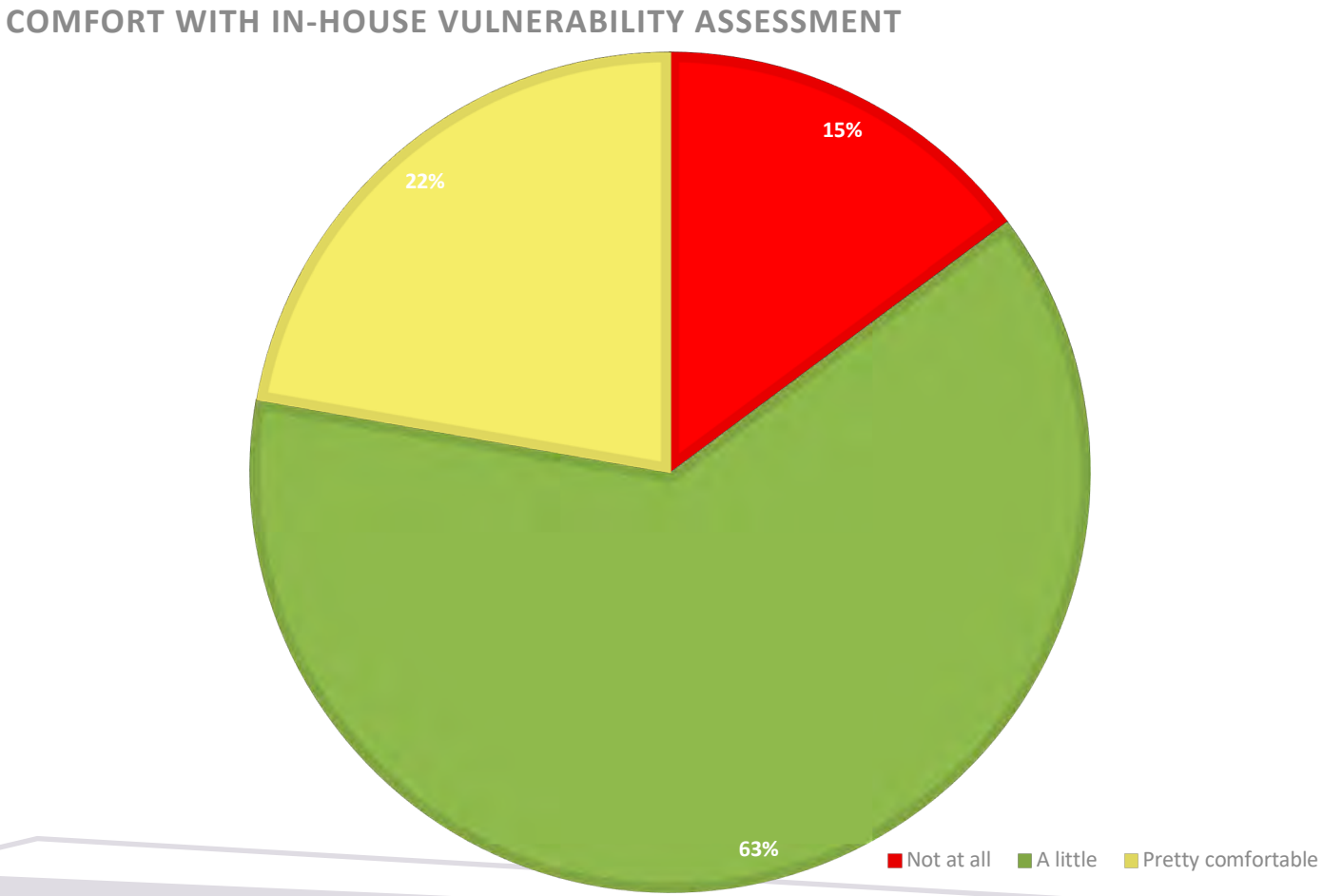
What kind of vulnerability assessment have you done?



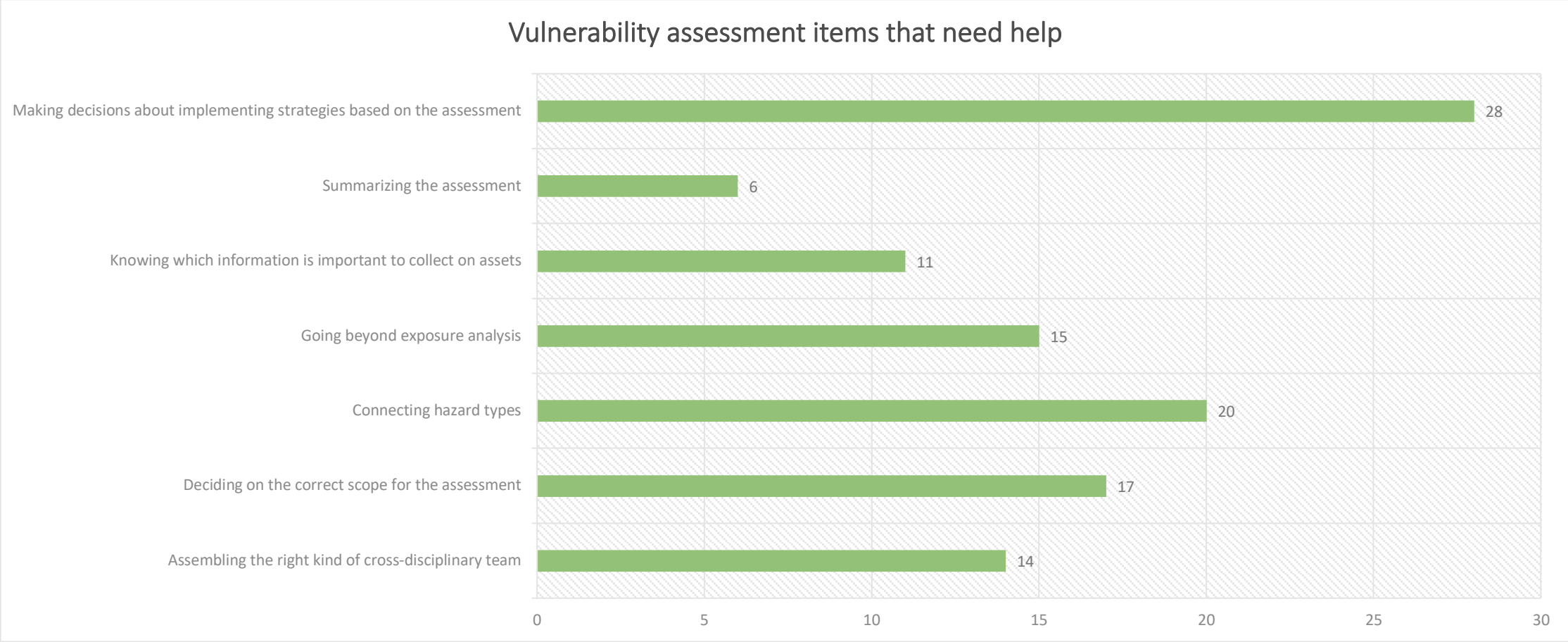
How many resilience regulations do you need to comply with?



How comfortable are you doing a vulnerability assessment yourself?



Which stage of the assessment do you need help with?



Asset:

Hazard (note past occurrences):	**Hazard Impact Statement:**

Existing Conditions: Describe the asset and highlight current conditions or stressors that could a

Physical asset functions (e.g., type of land use, community served, services provided):	Type ☐ Residential ☐ Institutional ☐ Industrial ☐ Commercial ☐ Other:
Who owns the physical asset? Are the owner and manager different?	Owner ☐ Public ☐ Private
What is the current condition of the asset? Has it recently been upgraded or retrofitted?	☐ Yes ☐ No ☐ If, yes explain:

Physical Vulnerabilities: Identify conditions or design aspects that make an asset particularly vu

What characteristics make the asset more or less vulnerable to hazard?
Examples include water or salt-sensitive mechanical components, or flammable building materials

Functional Vulnerabilities: Describe asset function and/or relationships with or dependence on other assets that can make them vulnerable to impacts.

Is the asset part of a networked system such that damage to other parts of the system would affect the asset's ability to function?	☐ Yes ☐ No If yes, are there alternatives to maintain continuity of service?	
What external services does the asset rely on?	☐ Power ☐ Communications ☐ Food	☐ Fuel ☐ Materials/supplies ☐ Other:
If external services were interrupted, are there back up supplies in place?	☐ Yes ☐ No If yes, how long would they last? (mark one) Hours Days Weeks	

Governance Vulnerabilities: Describe challenges with management, regulatory authority, or funding options for adapting to impacts.

What governance issues exist and pose a potential risk? (Funding, governance, operation, management?)

Are there funding sources that can be used to assess hazard risk, climate vulnerability or resilience?	☐ Yes ☐ No If yes, describe:	

Consequences: Describe potential impacts on society, equity, the economy, and the environment.

Who in the community would be affected by damage, disruption, or loss of asset function?	☐ People where the live ☐ People where they work ☐ People where they recreate	☐ Elderly ☐ Youth ☐ Low Income ☐ Other:
What scale of economic disruption would occur if the asset was damaged, disrupted, or failed?	☐ Local ☐ Regional ☐ State ☐ National	Describe:
What would the consequences be to ecological services be if the asset was damaged or lost?	☐ Habitat or species benefits ☐ Public access ☐ Flood risk management	☐ Water Quality ☐ Other:

Example Vulnerability Statement

- "The City's electric utility substation is located in the wildland-urban interface and has been damaged by past wildfire events. It is also in a flood-induced landslide zone and could experience debris flows in a major storm. It serves 18,000 residential and commercial properties and it is the primary power source for this area."

Key Asset + Past or Current Vulnerability
= Potential Impact + Defined Audience