Allow dimensions to be members of multiple hierarchies

What is your idea?

*Allow dimensions to be members of multiple hierarchies.*

What problem are you trying to solve or what scenario would this idea solve?

Currently, if I require multiple hierarchies with common dimensions I am required to duplicate the dimensions. These copies are required to have unique names so if I have say, three hierarchies on something like:

- Hierarchy1: Region -> Program -> Project
- Hierarchy2: Program->Region->Project
- Hierarchy3: Project->Region->Program

I must have a naming convention which provides 3 copies of Program, 3 copies of Region, 3 copies of Project; each uniquely named.

My dashboards are already complex and this imposes additional complexity.

While this is a toy example, I have hierarchies which are 5 deep, and typically 3 or so permutations. This leads to 15 new copies given the convention described above.

What workaround have you found and used so far (if any)?

*I essentially create a convention where I name each based on the members of the hierarchy in order of precedence. When the first letter conflicts, I include enough lower-case characters to differentiate.*

*Also, I only use copies in hierarchies so that they all are copied from the original, untouched field.*

For instance, the hierarchies described above would be:

- \( R\text{PgP\_HIER} = R\text{PgP\_Region} \rightarrow R\text{PgP\_Program} \rightarrow R\text{PgP\_Project} \)
- \( P\text{gRP\_HIER} = P\text{gRP\_Program} \rightarrow P\text{gRP\_Region} \rightarrow P\text{gRP\_Project} \)
- \( P\text{RPg\_HIER} = P\text{RPg\_Project} \rightarrow P\text{RPg\_Region} \rightarrow P\text{RPg\_Program} \)

While this works to manage the complexity, the names are terrible and I either have to re-alias everything, or hide the names.

When I can, I create dynamic hierarchies, however, more often than not, I must provide canned hierarchies.
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What is your role in your organization?

Platform architect with some dashboarding and reporting assignments.

Suggestion:

Treat hierarchies as a collection of hierarchial references to existing fields. Remove any logic in tableau which assumes sole ownership of the dimension. It seems straightforward but I say that with no knowledge of the application internals which lead to this limitation to begin with.