

These are essential functions of the technology innovation process. They enable research to select problems of most relevance to farmers and to search for innovations most likely to fit. These functions serve to "finish" the innovation so that extension can be presented with farmer-ready technology. They treat a segment of the technology innovation process in which research and extension both have an essential interest. This fact improves the chances for research-extension linkage.

At the same time, the Model shows the inadequacies of these functions if they are not linked to a technology generating function (or source of technology) on the one hand and to a dissemination function on the other. While they are essential, the FSR/E functions are not sufficient in themselves.

(b) It can be inferred from the TIP Model that a country can rely heavily on international sources of technology, but from the testing function onward, a country must have its own capacity. The international technology network cannot provide them. They are components of Basic National Capacity.

(c). Reconcile the organization of the R/E System with the technology innovation process, using the TIP Model. Use Figure IV to help (i) to determine a feasible assignment of responsibilities to the extension and research entities, (ii) to reflect those assignments in the organization of research and extension, and (iii) to relate the the two organizations so that the integrity of the technology innovation process is maintained.

Think of the rectangle REXT as the total combined R/E effort. However, the area shown for each sub-unit does not measure its importance relative to the total effort because equal width is used for the functions. This illustrates an important inadequacy of a model such as this. While it is useful for conceptualization, its value for analysis is limited. Indeed if pressed too far as an analytical device, the model may actually do more mischief than good.

You will need to experiment with your own lines. The Figure will help you to understand that:

- + The functions of the technology innovation process must be translated into job assignments,

- + That each job assignment has to be assigned to an administrative entity,

- + That the jobs must be related to each other within each of the entities, and

- + That the activities of the two entities must be related in such way that the technology innovation process can be implemented.