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Abstract

Rational choices among the numerous technological options available for foreign language teaching need to be based, in part, on psycholinguistic considerations. Which technological advances help create an optimal psycholinguistic environment for language learning, and which may be innovative but relatively unhelpful? One potential source of guidance is offered by the ten *methodological principles* of Task-Based Language Teaching (Long, 1985, and elsewhere) each realizable by a variety of *pedagogic procedures*. Interest in TBLT derives from several sources, including its responsiveness to learners' precisely specified communicative needs, the potential it offers for developing functional language proficiency without sacrificing grammatical accuracy, and its attempt to harmonize the way languages are taught with what SLA research has revealed about how they are learned. TBLT's ten methodological principles are briefly defined and motivated, and illustrations provided of how the principles can inform choices among technological options in the particular case of distance education for the less commonly taught languages.

1 Purpose and Organization

In this paper, we motivate and define ten methodological principles for Task-Based Language Teaching (TBLT) and illustrate their implementation in the particular case of foreign language distance education for less commonly taught languages (LCTLs) Interest in TBLT derives from several sources, including the potential it offers for producing courses designed systematically in response to learners' precisely specified communicative needs, for developing functional foreign language proficiency without sacrificing grammatical accuracy, and for harmonizing the way languages are taught with what SLA research has revealed about how they are learned. Our primary focus is on the role of the methodological principles (MPs) in the design of psycholinguistically optimal L2 learning environments, with special attention to the use of technology in the realization of the MPs at the level of pedagogic procedure. We provide a brief rationale for each principle, followed by one or more examples of how the principle informs choices among the dizzying array of technologically feasible options in distance education.

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2 Background

Several proposals for task-based language teaching have appeared over the past decade, but most have been limited to suggestions for materials and pedagogy for a miscellany of single tasks, unmotivated by the findings of a learner needs analysis. Some have been little more than "communicative" practice devices for the covert delivery of structural syllabuses -- tasks replacing drills, with very little else changing -- not task-based at all, in other words. On both counts, the same is true of many computer-assisted language learning (CALL) materials and, more recently, the delivery of distance education foreign language programs. In contrast, right or wrong, Task-Based Language Teaching (see, e.g., Long 1985, 2000a, to appear a, b; Long & Crookes, 1992, 1993; Long & Norris, 2000; Robinson, 2001a) constitutes a coherent, theoretically motivated approach to all six components of the design, implementation, and evaluation of a genuinely task-based language teaching program: needs and means analysis; syllabus design; materials design; methodology and pedagogy; testing; and evaluation.

A major consideration in the distance education context is how to make principled choices among technology options. To be effective, distance language programs must be carefully planned on the basis of a clear understanding of learner needs, since the appropriate technology for the delivery of such courses can only be selected once these elements are understood in detail. For this reason, among others, we focus on TBLT as an approach to foreign language distance education with the potential to motivate rational choices among the many technological options available when attempting to create a psycholinguistically optimal instructional environment.

3 Methodological principles and pedagogic procedures

A distinction is made in TBLT between methodological principles (MPs) and pedagogic procedures (see Long, to appear, a) Together, they guide and constitute the way a genuinely task-based syllabus and task-based materials are implemented in the classroom.

Methodological principles

Methodological principles are putatively universally desirable instructional design features, motivated by theory and research findings in SLA, educational psychology, and elsewhere, which show them to be either necessary for SLA or facilitative of it. The theoretical and empirical support makes them features it is believed should probably characterize any approach to language teaching, task-based or otherwise. Advances in knowledge may eventually show some or (hopefully not) all of them to be wrong, but as in any other field, practitioners must rely on, and are limited to, current

understanding of theory and research findings.

There are at present ten MPs in TBLT (see Figure 1) Some, e.g., 'Use task as the unit of analysis', 'Elaborate input', and 'Focus on form', are original to the approach; others, e.g., 'Learn by doing', 'Provide negative feedback', and 'Individualize instruction', are based on long traditions and the work of numerous scholars in philosophy, SLA, psycholinguistics, language teaching, curriculum theory, and educational psychology. The middle column of Figure 1 provides some classroom-based examples of the MPs, and the rightmost column lists exemplary CALL applications. Unaltered, some of these CALL applications are potentially relevant for distance learning. However, as will be discussed further below, special consideration must sometimes be given to the primarily asynchronous and remote nature of distance education when choosing among them in this context.

Pedagogic procedures

Whereas MPs are putative language teaching universals, pedagogic procedures (PPs) are quite the reverse. They comprise the potentially infinite range of local options for realizing the principles at the classroom level, choice among which is determined by such factors as teacher philosophy and preference; learner age, proficiency, literacy level, aptitude and cognitive style; the class of target linguistic features for which the procedures are to be used; and the nature of the learning environment, the latter being especially important in a distance learning context. Selection among the myriad PPs available should vary, albeit rationally and systematically. Many of the choices have to be made spontaneously as a lesson unfolds, and so are best left to the classroom teacher, who is almost always the most reliable source on local circumstances, and in many cases, e.g., manner of response to unforeseen learner difficulty, the only source. Whereas MPs can be assessed as most likely right or wrong at any particular time, given the current state of knowledge, there are no constant "right answers" where PPs are concerned. Choice among them is a matter of judgment, with different choices potentially justified at different times with the same learners or at the same time with different learners.

By way of illustration, let us consider MP7 (see below) While some controversy remains as to the *necessity* of negative feedback in adult SLA (for opposing views, see, e.g., Long, 1996; Schwartz, 1993), there is good evidence, and widespread agreement, that feedback on error is *facilitative*¹? 'Provide negative feedback', therefore, has the status of a methodological principle in TBLT. *How* that feedback is best provided in any particular classroom is a matter of local circumstance. Options range from overt and explicit procedures, e.g., use of a rule or explanation delivered in oral, manual, or written mode, in the L1 or L2, or repetition of the correct response, followed by an elicitation move of

some sort designed to test for incorporation; through less intrusive ones, e.g., teacher "clarification requests" in the absence of any real communication breakdown, designed to elicit learner re-runs with self-repair; to covert and implicit ones, e.g., manipulation of input frequency to increase perceptual salience, or the use of corrective recasts, of which students, and even teachers themselves, may sometimes barely be aware. Different pedagogic procedures for providing negative feedback may be needed for literate and illiterate learners, for children and adults, and so on, or with the same group of learners for different classes of problematic target-language forms, e.g., free and bound morphology, meaning-bearing and communicatively redundant items, or forms that are learnable and unlearnable from positive evidence alone. While the PPs chosen will vary, all will instantiate the same MP: 'provide negative feedback.'

4 The Distance Learning Context

The use of technology in language teaching clearly falls within the domain of pedagogic procedures. Whereas practical circumstances often favor -- or even dictate -- distance education for LCTLs, there is nothing inherently necessary or sufficient psycholinguistically about *any* use of technology, as evidenced by successful foreign language learning without it. Most successful foreign language learning takes place with no technology support at all, in fact. Moreover, it has been demonstrated empirically that it is design principles that underlie successful learning rather than any particular delivery system (Clark, 1985, 1994) Nonetheless, the current generation of network-based technology, in many cases, does offer advantages over the traditional classroom in terms of ease and range of access to materials, interlocutors, and domain experts. This is especially true in the case of the LCTLs, for which budgetary considerations may preclude the offering of regular courses for what are often small numbers of students in any one location. Still, where language teaching takes place entirely *out* of the classroom, this is not without difficulty. For instance, the classroom teacher -- who is, as noted above, (a) ordinarily the most reliable source on local circumstances, (b) the one who can best make decisions as a lesson unfolds, and (c) a major source of native L2 input and feedback on error -- is now removed in space and time from the learners, who may, in turn, be removed from one another.

The question, then, when considering which technology options are appropriate in distance learning, is how, in accordance with the language teaching MPs, to integrate the advantages of network-based technology while compensating for the difficulties posed by the absence of real-time, face-to-face interaction. Rational decision-making in this area has the potential not only for appropriate realization of the MPs concerned, but also for making use of technology itself more principled than is often the case.

5 TBLT for the LCTLs

In this paper, we exemplify the application of TBLT's ten MPs in selecting appropriate technology for the distance learning of foreign languages. We wish that we could point to an existing distance education TBLT course or program for any LCTL. However, to our knowledge, none exists. While there are many useful links to online and print materials resources for the LCTLs (for example, at the websites of MSU, UH, UMinnCARLA, or UCLA) existing online materials tend to fall into the following categories: phrasebooks, dictionaries, translation aids, metalinguistic grammar instruction, reference grammars, authentic video, authentic texts (e.g., literature) and tests. Nor do there appear to be any task-based courses for LCTLs (classroom or distance) in any online university catalogs (most are traditional language-as-object courses, even when given a special purpose title such as "Business Korean") Useful examples for TBLT are language for specific purposes courses, and there is a vast literature on English for Specific Purposes (see Eric database; ESP Journal; ESP on the Web; see also Dudley-Evans & St. John, 1998; Hutchinson & Waters, 1987; Jordan, 1997; Robinson, 1991). However, for the LCTLs, the small number of such special purpose materials which exist are either classroom or one-on-one tutorial courses (e.g., "Japanese for you-specify-the purposes" -- a model, in fact, ideally suited for TBLT) content-based courses (e.g., understanding Chinese culture for entrepreneurship), or little more than phrase lists (e.g., what to say when exchanging business cards)

As a consequence of this state of affairs, our discussion will necessarily be based on a combination of existing examples of materials which exhibit some but not all of the features under consideration, and one logical, but not yet implemented example which incorporates them all (see Figure 2) A useful service for the field would be the identification and archiving of any LCTL materials that are genuinely task-based, distance courses, or both.

The first TBLT-like example in Figure 2 is a simulation ("Dustin") which was developed for L1 Spanish-speaking employees of the Anderson Consulting Firm preparing to attend a training session at the parent company site in Illinois (Ohmaye, 1998) The strengths of this example are its "learning by doing" approach (see MP2) espoused by the Institute for Learning Sciences at Northwestern University, where the simulation was developed (Schank and Cleary, 1994) and the proximity of computer simulations to TBLT.

The second example is one from our own Korean TBLT materials development project for the University of Hawaii's National Foreign Language Resource Center (Long, Doughty, and Chaudron, 1999-2001) (go to Task-Based Language Teaching in Foreign Language Education and search on

"Korean") While these materials were not developed for distance education, we will discuss logical ways in which they could be implemented as such using technology.

The third example we mention simply illustrates the potential for distance foreign language learning where students are involved in a project in a country where the target language is spoken. In 1998, the University of Southern California began a smoking prevention program in Wuhan, China, using a protocol already developed at USC. The aim of the study is stated as follows by project director Johnson:

"In addition to smoking, the IPR will assess alcohol abuse, stress, diet and nutrition, physical activity, the quality of the environment, and health programs, as the region undergoes rapid economic development and social change" (Guttman, 1998)

The final component is a longitudinal study to monitor the effectiveness of the program. One could envision that, after a period of preparation at USC for in-country experience (in and of itself a candidate for a Chinese TBLT course) learners would then engage in the research project with distance education support of their L2 teachers. This example illustrates a case in which the technology of distance education is a necessary component for the in-country phase of a TBLT course.

Taking a TBLT approach to the distance learning of LCTLs entails a number of advantages as well as challenges. First, TBLT's emphasis on meeting the real-world needs of learners offers a motivating alternative to the dismal prospect of a grammar-based, drill-and-practice distance foreign language program, a format known to be ineffective in print, classroom, and CALL versions of materials. Furthermore, TBLT emphasizes *variety* in resources relevant to these needs (see MP4) and *individualization* of instruction (see especially MP8 and MP10) both more easily accomplished with than without technology. Finally, given that using technology is often likely to be an intrinsic part of many L2 learner needs, some of the integral components of distance education will, in and of themselves, *be* target tasks.

Nonetheless, course developers taking a TBLT approach will face certain challenges, some of which are already becoming well known in distance education. For instance, given that the results of precourse and ongoing learner needs analyses lay an essential foundation not only for syllabus design, but also for many pedagogic decisions in TBLT, an important consideration for program developers is that of how the learner needs analysis is to be carried out in the distance education context. This issue is vital since distance education already shows signs of mass commercialization that will far exceed the existing market for irrelevant print-based language teaching materials. Universities tend to see distance education as a way of handling large course enrollments economically or of increasing tuition revenues by reaching out to large numbers of students not physically present on campus. Also, universities make IT system-wide decisions to purchase distance education course management software for all their courses, software which may not be suitable for TBLT². Most recently, distance educators have become concerned about Microsoft's emerging and expanding corporate control of course management software, e.g., Blackboard (Arnone, 2001) The essence of TBLT is its relevance to learner needs (both communicative and psycholinguistic) and distance education clearly has the potential to contribute in this area, provided those needs are kept in mind at all times during program development, and provided language courses are not packaged into ill-fitting courseware management programs.

All three of our examples in Figure 2 employ a learner needs analysis. As noted above, Dustin is a computer simulation program designed to prepare international employees for a training session at the home office in Illinois. Computer simulations of real-world tasks are potentially the ideal environment in which to build a needs-based TBLT program. In this case, the Dustin program designers conducted a needs analysis by participant observation of the following aspects of the Anderson Employee training program: arriving at the U.S. airport, clearing customs, traveling from the airport to the hotel, checking in, and using the hotel facilities, including restaurants and shops (Ohmaye, 1998) The simulation is built to enable learners to try the target tasks, with some assistance available from the interface, e.g., a translation button, the capacity to view video interaction, and simplification of input. (More will be said about this trial-and-error approach and the available help options below in the discussion of the remaining MPs.)

The Korean TBLT 'Following street directions' module was developed to meet a pervasive need identified using semi-structured interviews, plus task-based L2 use questionnaires based on those interviews (see Chaudron et al, to appear) Over 90% of students studying Korean at UH had already been and/or planned to travel to Korea for a variety of purposes, ranging from academic, through occupational and religious, to social. Thus, an important target task for them was understanding and following directions. As described in greater detail below (see MP1), the necessary and optional elements of the target task were further investigated via collection and analysis of samples of target discourse surrounding completion of the same task in Waikiki and Seoul.

Finally, a needs analysis of the hypothetical longitudinal assessment of the smoking prevention program in Wuhan, China would be the foundation for a TBLT Chinese course. Such a course would start out at USC and continue, via distance education, in country.

6 Ten Methodological Principles for TBLT in Distance Learning of LCTLs

We now briefly discuss the rationales for, and examples of, the ten MPs listed in Figure 1 (for more detailed explanations and reviews of empirical findings, see Long, to appear a) Illustrations of PPs are taken from the simulation and TBLT examples cited in Figure 2, as well as from the CALL applications in Figure 1.

MP1 Use task, not text, as the unit of analysis

For several independent reasons (see Long, to appear, a) 'task' is the appropriate unit of analysis at every stage of a language teaching program. At the level of methodology, our present concern, it meets the requirements of an analytic approach (Wilkins, 1976) and (unlike 'approach, 'method', or 'technique', for example) is also known to be a meaningful unit around which teachers can plan, deliver, and recall lessons (Shavelson & Stern, 1981; Swaffer, Arens, & Morgan, 1982) The focus in TBLT lessons is on task completion, not study of a decontextualized linguistic structure or list of vocabulary items -- and not the same phenomena at the supra-sentential level, *text*. Spoken or written texts are static records of someone else's (previous) task accomplishment, i.e., a by-product of tasks. Building lessons around texts (as in much content-based language teaching) means studying language as object, not learning language as a living entity through using it and experiencing its use during task completion. Learners need to learn how to do a task themselves. There is a world of difference, for instance, between learning to make a particular kind of social, business, or emergency medical telephone call through acting one out, as in a role play, and/or making a real one to given specifications, on the one hand, and on the other, in a text-based program of some kind, listening to or reading a "dead" script of someone else's effort.

A number of issues arise when task is selected as the unit of analysis, the most problematic of which, currently, is sequencing. This issue arises, but is rarely addressed scientifically, regardless of the kind of syllabus used. The solution implicit in most materials is some intuition-based and question-begging notion of linguistic complexity. Another approach, the one taken in the Dustin simulation, is to allow learners themselves to select the order in which they proceed through materials. We believe that the ultimate solution, which is an important component of TBLT, will lie in the development of series of *pedagogic tasks* sequenced in terms of (inherent, unchanging, and objectively measurable) *task complexity*, with *task difficulty* (which varies for specific learners according to such factors as their L2 proficiency) modifiable as needed by alterations to task conditions (the circumstances under which the tasks are carried out) By working through the series of pedagogic tasks, learners can build up the abilities needed eventually to perform the *target tasks* identified by the learner needs analysis at the levels required. The characteristics of tasks which predict complexity, and the effects of task

complexity, difficulty, and conditions on interlanguage use, are currently areas of intensive research in SLA (see, e.g., Kong, in progress; Y-G Lee, 2002; Robinson, 2001a; Skehan, 1998) Robinson (2001b, and elsewhere) defines task complexity in two ways, with one dimension involving resource-directing elements of a task, and the other dimension constituted by resource-depleting task demands. (For a promising model of relationships among task complexity, task difficulty, and task conditions, and of all three to interlanguage accuracy, complexity and fluency, see Robinson, 2001b.)

The process of sequencing pedagogic tasks is one component of the previously mentioned Korean TBLT project at the University of Hawaii (Long, et. al. 1999-2002) (go to Task-based Language Teaching in Foreign Language Education and search on "Korean") As noted above, the results of the needs analysis (Chaudron et. al., to appear) revealed that over 90% of learners had already visited and/or intended to travel to Korea for a variety of reasons. Accordingly, the first module of TBLT materials developed for one group of students, near zero beginners, was a series of pedagogic tasks leading to the *target task* of 'Following street directions'. The series of seven *pedagogic tasks* shown below was developed and sequenced to prepare students eventually to comprehend and follow directions in Seoul. The eighth pedagogic task listed below is under consideration for development. (See Prototype Directions Module in Appendix 2, which provides a rationale and illustrates the process of pedagogic task development in English. This template was used to develop the Korean materials)

Target task: Following street directions

Pedagogic tasks:

- 1. Listen to numerous examples of target discourse surrounding target-task completion, i.e., genuine examples of Korean NSs giving directions.
- 2. Listen to fragments of elaborated directions while tracing them on a very simple, 2-D map. Within this task, the fragments increase in complexity.
- 3. Listen to ever more complex fragments while tracing them on a more complex, 3-D map, periodically answering questions like "*Where are you now*?"
- 4. In collaborative pairs, read scripted (first pair) and follow (second pair, collaboratively) directions on a simple map.
- 5. Using real maps of Seoul, listen to elaborated target discourse samples and follow routes already marked on the map with colored lines.
- 6. Given a starting point, follow an unknown route, with periodic comprehension checks like "Where are you now?" along the way, and at the end.

- 7. Do the same as in PT 6, but in one "go", i.e., without breaks or comprehension checks along the way, but labeling the building/space/etc. on the maps at the end of each route as evidence of having successfully reached the destinations.
- 8. Virtual reality map task. Using video from the target location and audio of the target discourse, complete a simulation of the target task. (This can be used as the exit test if the physical location of the learners is not in the target community.) (See, e.g., En busca de esmeraldas (Gonzalez-Lloret, in press.)

MP2 Promote learning by doing

The basic, time-tested idea reflected in such contemporary slogans as "learning by doing", "childcentered", and "educating the whole person" is that practical hands-on experience with real-world tasks brings abstract concepts and theories to life and makes them more understandable. New knowledge is better integrated into long-term memory, and easier retrieved, if tied to real-world events and activities. Unrecognized by many, an important precursor to such ideas was the notion of 'integral education'. 'Integral education' is, of course, a straight English translation of the French 'l'education integrale', a long-standing principle of curriculum design in Europe, the U.S.A., and elsewhere. It was the guiding principle for all libertarian educational philosophy and practice, exemplified in the writings and experimental schools of Charles Fourier, Paul Robin, Madeleine Vernet, Sebastian Faure, Leo Tolstoy, and Francisco Ferrer, among others, and subsequently in the educational philosophies of such writers as Dewey, Goodman, Holt, Illich, and Freire. Faure's La Ruche (The Beehive), founded in 1904, is a famous example. In a rational, liberating, non-coercive, coeducational environment, "problem" children rejected by the traditional French education system learned mathematics, science and other academic subjects effectively through operating an on-site agricultural co-operative, producing eggs, milk, cheese, vegetables and honey, and then selling them in nearby Paris to help support the school. (For histories and rich sources of references on integral education, see Avrich, 1980, pp. 3-68; Shotton, 1993, pp. 1-32; and, especially, Smith, 1983, pp. 18-61.) Maria Montessori's (1870-1952) child-centered, teacher-decentered, philosophy, and advocacy of 'exercices de la vie pratique', or 'exercises in daily living' (see, Kramer, 1978), reflect much of the same tradition. Use of the exercises in so-called 'Montessori' schools (whose practices around the world increasingly tend to vary, despite bearing the same name) has stood the test of time.

TBLT is an example of learning by doing, and of integral education, at several levels. It aims to equip learners to meet their present or future real-world communicative needs, as identified through a task-based learner needs analysis, the first step in course design (for detailed discussion and examples, see Long, to appear, b, c) Then, inside the classroom, instead of studying the new language as object in order to use it to communicate at some late date, *students learn language through doing*

pedagogic tasks. As illustrated above in the Korean TBLT module on following directions (MP1), a sequence of pedagogic tasks of gradually increasing complexity culminates in one or more target tasks for those learners. Pedagogic tasks, like the target task-types that motivated their inclusion in a syllabus, combine language learning and action at various levels. Almost all pedagogic tasks have a "hands-on", problem-solving quality designed to arouse learners' interest, and hold their attention. Following taped street directions from a native speaker by tracing out a route on a road map of Seoul is more likely to prepare learners to find their way when lost in Korea than studying a narrative "reading passage" describing the route that someone else took from A to B or a "dialog" showing someone asking for and receiving directions. Actually *doing* a task, or initially, a simple version thereof, is more relevant, comprehensible, and memorable than reading about someone else doing it.

Computer simulations of target environments and tasks constitute a good example of the promotion of learning by doing. The basic idea is that a learner on his or her own can gain experience in a simulated environment under conditions of reduced stress and without real consequences to their actions. For example, Cyberpatient presents several cases in which learners try to save a patient by making the right decisions during a simulated crisis (e.g., acute coronary syndrome and acute legswelling cases) Like Dustin, the general model is one of trial-and-error, with optional assistance from the simulation. Although sharing much in common with simulations, TBLT offers the advantage described above of an ordered sequence of pedagogic tasks. The weakness of Dustin (see example 1, Figure 2) and other simulations is that, rather than working through a series of graded pedagogic tasks, learners are immediately required to do the target tasks (e.g., have a video-based interview with a U.S. customs agent or diagnose an illness) before they have developed the necessary ability to do so. This is often the case with simulations and is done in the name of "authenticity" of materials, an issue which arises with regard to a number of the MPs (Long, 1996a) Early attempts at target tasks generally result in failure, followed by the simulations' provision of help, so that learners can determine where they went wrong. The argument is that, since this is done independently and not in a public fashion, such trial and error is beneficial. Furthermore, since the simulation provides help options, the learner can obtain models, hints, opportunities to try the target tasks repeatedly, etc. Although such assistance is potentially beneficial (as discussed below concerning other MPs) the difficulty is that, in the name of learner-control or individualized instruction, learners simply are not given adequate guidance. In the sequencing of series of pedagogic tasks gradually approximating the complexity of the full target tasks, TBLT attempts to resolve this.

MP3 Elaborate input

Both genuine and simplified texts are psycholinguistically inappropriate for learners. Quite apart from their undesirable status as units of analysis for language teaching (see MP1, above) *genuine* (popularly know as 'authentic') texts, originally written by and for native speakers, are usually too complex for all but very advanced learners. As a result, they typically require explicit metalinguistic study to render them comprehensible, which leads, in turn, to the study of language as object rather than development of a functional ability to use language. The traditional language teaching alternative, *simplified* texts, are unnatural and unrealistic in their tendency to be "self-contained", with little or none of the usual implicitness, open-endedness, and intertextuality that characterizes authentic discourse. Also, while simplified texts are (in most cases) easier to understand than genuine texts, the improved comprehensibility comes at the cost of much of their value for language learning. How are learners to acquire items that have been removed from the input, and how are they to learn real NS use of new items if presented with something far less and unrepresentative? (For further details and discussion, see Long, 1996a)

Fortunately, there is an alternative to genuine and simplified texts: elaborated input. 'Elaboration' is the term given to the myriad ways NSs modify discourse, i.e., language use, to NNSs to make it comprehensible, as revealed by studies of foreigner talk discourse. Most of the modifications occur during negotiation for meaning, i.e., when NS and NNS are focused on achieving communication while working cooperatively on a task. They include partial and complete, exact and semantic, self- and other-repetition; confirmation checks, comprehension checks, and clarification requests; rearrangement of utterances so that order of events and order of mention are iconic; paraphrase; lexical switch; decomposition; a preference for intonation and yes/no questions over WH questions; use of redundancy of various kinds; and many other "scaffolding" devices (see, e.g., Doughty, 2000a; Gass, in press; Long, 1983, 1996b) Over 20 empirical studies have compared the comprehensibility of simplified and/or elaborated and/or genuine spoken and written texts. The general finding is that simplified and elaborated texts, whether spoken or written, achieve roughly comparable levels of comprehension among NNSs, and that both achieve higher levels of comprehension than genuine texts (see, e.g., Yano, Long, and Ross, 1994) Since elaborated texts do this while retaining the new lexical and grammatical items learners need to encounter in the input if they are to learn them, while preserving the semantic content of the genuine version (Long & Ross, 1993), and while presenting L2 samples that are closer to authentic target-language use than simplified versions, elaboration is clearly superior to simplification as a way of modifying input for foreign language learners. Elaborated input can be provided in advance, e.g., in the pre-scripted materials sources for pedagogic tasks, but also occurs naturally in teacher speech and in learner-learner discourse, as long as participants are focused on

task completion and, therefore, on communication (see, e.g., Pica, Lincoln-Porter, Paninos, & Linnell 1996).

The provision of pre-scripted materials in distance education poses no greater difficulty than is the case with classroom materials. The course developer simply has to follow the elaboration procedures that have been shown empirically to facilitate comprehension while at the same time providing rich input. The elaboration of input is the weakest component of the Dustin simulation. This is not due to any limitations of technology, but rather to the apparent lack of any SLA research findings or language teaching MPs guiding development of the help options. As noted above, learners attempt target tasks on a trial-and-error basis. When they feel a task is too difficult, or realize that they have failed, they may select any or all of the help options at any time. For instance, in attempting to check into a hotel near the company (a sort of role play, with the clerk on video and the learner playing the quest) learners may: view a model of the entire check-in interaction; proceed step-wise through it themselves; obtain an L1 translation; see a written version of the spoken input; see the text of what they should say, or press a "Huh?" button. Unfortunately, while an ideal context for elaboration, this last option provides simplified input. Likewise as can be seen in the example which follows, much of the information needed to find the room to which the hotel clerk is giving directions is lost in each successive pressing of the huh? button. The learner has just managed to complete giving the necessary check-in information, and a video clip of the desk clerk appears:

Clerk: Ok, here are the keys to Room 5116. To get there, you go down the hall, turn left past the weight room, and take the elevator to the fifth floor.

[Learner presses Huh?]

Clerk: Take the elevator to the fifth floor.

[Learner presses Huh?]

Clerk: (said very slowly) The fifth floor.

To reiterate, the idea of the "Huh" button is not at issue. In fact, it is rather like a well-known feature of spontaneous interaction, the clarification request, which interlocutors frequently use when they have not entirely understood an utterance. Had the "Huh?" video clips been based on actual target discourse, and produced elaborated input, the entire sequence would have had considerable potential for language learning.

In fact, the elaboration of input in oral communication requires special attention in distance education, owing to the frequently asynchronous nature of distance communication. Where interaction is synchronous and spontaneous, interlocutors tend almost automatically to provide one another with the elaborations needed to reach mutual understanding (for an overview, see Doughty, 2000a). Recently, computer-mediated communication (CMC) has engendered a considerable amount of research in this regard. At first, particularly with regard to language learning, it was assumed that, by virtue of increased opportunities for interaction and lessened inhibition with regard to L2 production, CMC would be very beneficial for SLA. However, it is now clear that it cannot simply be asserted that the opportunity for more interaction is sui generis beneficial. Studies have shown that chat-room discourse, for instance, is very different from face-to-face interaction. When a group of learners chat online, it is difficult for them to follow normal turn-taking rules or even to know which contributions are relevant to others, since they do not appear contiguously on the screen (Negretti, 1999) Learners adopt all sorts of strategies just to figure out who the addressee is or which prior turn the incoming contribution to the CMC comments upon. On the other hand, if learners participate in CMC discussion with one conversational partner, the interaction is very much like that observed in SLA research on negotiated interaction (Blake, 2000) Since chatroom interaction is one of the standard ways of overcoming teacher-learner and learner-learner distance in web-based courses, these issues are of vital concern.

MP4 Provide rich input

Linguistically simplified input, which goes hand in hand with synthetic (especially structural, or grammatical) syllabuses, also tends to be *impoverished* input. Controlling grammar, vocabulary and sentence length results, intentionally and by definition, in a more limited source of target-language use upon which learners must rely in order to learn the code. The often tiny samples are worked and reworked in class, whether practiced until rote-memorized, milked meta-linguistically, or both, and learners are expected to learn the full language on the basis of access to such limited data. It is analogous in some respects to the task that confronted plantation-era children of immigrants forced to develop their L1 on the basis of the functionally and formally restricted pidgin (L2) spoken by their parents. The children successfully creolized the limited input, but robust evidence of the existence of maturational constraints on language learning (for review, see Hyltenstam & Abrahamsson, in press) strongly suggests that sort of linguistic creation to be a process of which adults foreign language learners are no longer capable.

Elaborated texts (in the sense of MP3) go a long way towards remedying the situation. They, alone, are insufficient, however. Adult foreign language learners require not just linguistically complex input, but *rich* input, i.e., realistic samples of discourse use surrounding NS and NS-NNS

accomplishment of target tasks. This will usually mean task-specific and domain-specific targetlanguage use not typically found in commercially published language teaching materials, not even those allegedly designed for language-for-specific-purposes programs. Commercial materials writers and publishers generally aim for the *least* context-, domain-, and task-specific texts possible, in order to boost the potential market for a book. This is the opposite of what is needed, especially if advanced, functional proficiency is the goal. Numerous studies have shown large discrepancies between the models presented in "general" textbooks and genuine NS use on real tasks in particular domains, even when those domains are relatively ordinary and "non-technical" (see, e.g., Bartlett, to appear; Cathcart, 1989)

Learners need elaborated texts; plenty of them; texts derived from a far greater range of target tasks and discourse domains than is currently typical in commercial language teaching materials; and, most important of all, texts motivated by tasks of the specific kinds a needs analysis has shown to be relevant. The examples will usually need to be based upon "field work" of various sorts by course designers, e.g., in situ audio- or video-recordings of NSs performing target tasks, and the gathering of authentic written documents relevant to those target tasks. Unless the learners are very advanced, those genuine texts will then need to be elaborated before they are used with learners (for examples with Korean as a foreign language, see Chaudron et al, to appear) *Rich* input, in sum, is not just a matter of linguistic *complexity*, but of *quality*, *quantity*, *variety*, *genuineness*, and *relevance*.

It is in the area of provision of rich input that technology is most relevant in all of these respects. However, a number of cautionary notes are in order. Whereas technology offers seemingly infinite (e.g., web) access to rich input, without any pedagogical intervention, internet input is overwhelming (often even for native speakers) Consequently, activities like web-based scavenger hunts or internet searches are ill-advised. Rather, well-constructed input archives in the form of audio, video, and textbased corpora, the components of which are tagged for task complexity and perhaps controlled in terms of learner access could provide rich input that is, indeed, accessible. For example, in debriefing interviews with students conducted as part of the formative evaluation of the Korean street directions materials, some participants commented that the first and second pedagogic tasks which, by design, contained prolonged, repeated exposure to target discourse samples, were tedious. While it may be the case that "massive" exposure to input is beneficial, attempting this in one extended session appeared to be inappropriate in this case, at least. The street-directions target discourse samples, already digitized for the purpose of removing excessive background noise, could be made available online for self-access, with guidance as to the order in which to proceed through the extracts (see MP2 on sequencing) Online audio banks of target discourse samples, tagged for complexity, would allow students to listen to input in differing quantities, and at their own pace, rather than in uniform

quantities in groups in the classroom, thereby catering to differing learner requirements in this regard. The key to designing corpora for self-access to rich input would be to build in some sort of performance assessment, such that learners would be able to ascertain when they had spent sufficient time listening to examples (for instance monitoring success at pedagogic tasks 5, 6 and 7 *'Follow the route'*) Learners could then determine on their own when they are able to proceed to the next pedagogic task in a sequence. In our classroom-based Korean TBLT materials, this is the responsibility of the teacher, who periodically checks learner comprehension, using such questions as *"Where are you now?"* or *"What building are you next to?"*

Specific-purpose corpora already developed for language courses may be relevant to particular learner needs. More likely, however, it will be necessary to construct and tag a corpus which provides sufficient quantity and quality of input and which is also relevant to a target task, for example, using abstracts of articles on the medical database, Medline. Such a corpus has been analyzed to extract data about side-effects, and the type of terms used to describe them (Weeber, 2001). Another cautionary note is perhaps in order at this juncture, since the topic of using corpora for language teaching has been raised. Training language learners to use concordancing programs and corpora for the metalinguistic study of language samples is not at all what is being proposed here, although such programs certainly abound (see, for instance, LLT Special Issue Vol. 5, No. 3.) Rather, it is the course developer, not the learner, who should use these tools to build corpora that will have specific relevance to the pedagogic tasks that comprise the foreign language distance education course. If a learner is to use concordancing tools, then this should be in the service of a generally non-language based task, such as the Medline example cited above.

MP5 Encourage inductive ("chunk") learning

The ultimately superior L1 and L2 attainment of child starters may reflect a greater tendency on their part to analyze input at the morphemic level, due to their more limited processing capacities (e.g., short-term memory) preempting treatment of larger units. Not as limited in these respects, adults, conversely, may attend to the meaning of more extensive "chunks", helping their immediate comprehension, but in the long run hindering mastery of the full complexity of the new language because attention to message deflects attention from code. This contrast has been proposed as an explanation for consistently observed child-adult differences in L2 ultimate attainment, and termed the "more is less hypothesis" (Kersten & Earles, 2001; Newport, 1990)

Nevertheless, children do seem to learn many items, such as phrasal verbs, gender-marked modifiers plus nouns, and numerous lexical collocations, as "chunks", or 'formulaic sequences' too (Wray, 2000), as evidenced by their quick and accurate mastery of thousands of such items. Adults, by comparison,

typically have great difficulty recognizing or producing the same elements correctly, even at very advanced proficiency levels (see, e.g., Spadaro, 1996), suggesting that whether or not their initial processing of input is for meaning, which involves parsing larger segments at a time, they subsequently analyze and/or store at smaller levels than children, e.g., potential collocates as separate lexical items only. If not, why do so many adults have to try to remember if various French or German nouns are masculine, feminine or neuter, if one says 'arrive at' or 'to' or 'Toby pushed James off' or 'from' the rails? Even allowing for their rarity in the world's languages, why is it that so many adult starters seldom produce phrasal verbs accurately in utterances like 'I dumped all the books out', 'Put it away', 'My hair's dried off', 'I'm sticking this in here', 'When you fall, I'll come and take care of you', or 'The train's not working -- it ran out of battery', or 'When you open it up, the light will come on. Then you take it out', whereas a two-and-a-half-year-old child of our acquaintance produced all of them and more in his L1, and did so effortlessly, fluently, and almost always accurately, from the very beginning? If adult foreign language learners are to sound like natives, they need to be exposed to realistic (genuine or elaborated) samples of target language use (see MP3 and MP4, above) e.g., as input components of pedagogic tasks, and then helped to incorporate, store and retrieve whole chunks of that input as whole chunks. When performing tasks, that is, they must be encouraged to plagiarize³⁾.

To the extent that TBLT relies upon implicit learning processes, it can be proposed that adults will abstract the language chunks that they need during the course of learning to perform the task at hand. Some support for this is found in the research on implicit learning of complex systems (see Berry, 1997; Berry & Dienes, 1993; and Stadler & Frensch, 1998, for extensive discussion). In such studies, subjects are given input values and are told to arrive at particular output values by attempting to manage the system through trial and error. They are provided no information whatsoever concerning the underlying structure of the system, but are usually given feedback as to the effect of their input to the system. Some examples of complex systems often cited are the management of a sugar factory (variables are workers and amount of production) city traffic flow management (variables are bus schedules and parking lot fees) and interaction with a computer 'personality' (where the computer person's mood is dependent upon the input from the subject) The basic and consistent finding of this research is that subjects become highly skilled at managing complex systems long before they are able to explain the rules underlying those systems. Given enough time, they can be made to verbalize the rules that guide their own performance, but the ability to express the rules always develops after that, and, crucially, is not necessary for the improvements in performance evidenced in doing the tasks (see Doughty, in press, for further discussion)

MP6 Focus on form

Older children, adolescents and adults learn much of an L2 grammar incidentally, while focusing on meaning, or communication. Research has shown, however, that a focus on meaning alone is insufficient to achieve full native-like competence. Thus, after as much as 12 years of classroom immersion, Canadian French immersion students' productive skills remain far from native-like, particularly with respect to grammatical competence (Swain 1991) exhibiting, e.g., a failure to mark articles for gender accurately, despite the fact that such items have been in the input all the time, although possibly with insufficient saliency (see, also, Pavesi, 1996). Comprehensible L2 input is necessary, but not sufficient. A focus on meaning, moreover, can be improved upon, in terms of both rate and ultimate attainment, by periodic attention to language as object (Long, 1988). This is best achieved not by a return to discrete-point grammar teaching, or focus on forms, where students spend much of their time working on isolated linguistic structures in a sequence predetermined externally and imposed on them by a syllabus designer or textbook writer, in conflict with the learner's internal syllabus. Rather, during an otherwise meaning-focused lesson, and using a variety of pedagogic procedures, learners' attention is briefly shifted to linguistic code features, in context, to induce "noticing" (Schmidt, 1990, and elsewhere), when students experience problems as they work on communicative tasks, i.e., in a sequence determined by their own internal syllabuses, current processing capacity, and learnability constraints. This is called focus on form (Doughty & Williams, 1998a; Long, 1988, 1991, 2000; Long & Robinson, 1998; and see Long, 1997 online) Focus on form has established a respectable empirical track record in the relatively short time since its conception, despite the fact that most of the research comparing its efficacy against more explicit focus-on-forms instruction has consisted of short-term, experimental or quasi-experimental studies targeting easy grammar items, factors strongly favoring focus on forms. (For a statistical meta-analysis of 45 studies comparing focus on form with other types of instruction, see Norris & Ortega, 2000, and for further discussion, Doughty, in press.)

Doughty & Williams (1998b) describe six decisions to be made when choosing among PPs, in general, and a range of PPs for focus on form, in particular. The decisions primarily concern whether and when to attend to a particular learning problem and, once the decision has been made to do so, how explicitly. Examples of focus-on-form techniques, ranging from less to more explicit, include: input flood, where texts are saturated with L2 models; input elaboration, as described in MP2; input enhancement, where learner attention is drawn to the target through visual highlighting or auditory stress; corrective feedback on error, such as recasting; and input processing, where learners are given practice in using L2 rather than L1 cues. The most difficult practical aspect of focus on form is that, to be psycholinguistically relevant, it should be employed only when a learner need arises, thus

presenting a difficulty for the novice teacher, who may not have relevant materials to hand. Where face-to-face interaction is the norm, as in L2 classrooms, recasting is an obvious potential PP. For reasons discussed below concerning MP7, recasting may not be the best choice for distance learning, where communication is usually asynchronous (but see Ayoun, 2001; Choi, 2000) Once an L2 problem has been diagnosed for a learner, then PPs may be decided upon and materials developed for use when the need next arises. Since shifting learner attention to form in such materials may often be accomplished primarily by making information relevant to the L2 problem perceptually salient, the many coding options technology offers for altering text appearance will be useful (Doughty 1991, 1992) In the same way that corpora can be built to provide rich input, elaborated and enhanced texts can be tagged such that materials can be developed practically at the moment needed.

MP7 Provide negative feedback

As noted earlier, argument persists as to the necessity of negative evidence in language learning. White (1989, and elsewhere) has suggested its value in drawing learners' attention to the nonoccurrence of L1 options in the L2. She claims this is especially important where native language structures are ungrammatical in the L2 but communicatively successful, as in the case of SVAO constructions in English (e.g., L1 French "He closed quickly the door' or "I drink every day coffee' in ESL) Schwartz (1993) conversely, has claimed that such data are unusable by learners (but see Doughty & Williams, 1998b, for discussion of this notion of "usability") Such important debates notwithstanding, recent work on both traditional explicit teacher "error correction" and implicit negative feedback in the form of corrective recasts (see, e.g., DeKeyser, 1993; Long, to appear, d) suggests strongly that negative feedback can be *facilitative*, at the very least, with certain classes of L2 structures, thereby justifying MP7.

Providing negative feedback poses the greatest challenge in distance foreign language education, principally due to the well established fact that effectiveness tends to diminish as distance between triggering event and feedback increases (see, e.g., Annett, 1969). If the value of negative feedback lies in drawing learner attention to some problematic aspect of their interlanguage, i.e., inducing "noticing" (Schmidt, 2001) then the timing of that feedback is critical. Where corrective recasts are concerned, the information must be provided within some as-yet-little-understood cognitive processing window (for instance, but not necessarily, in working memory) such that learners can make some sort of comparison between the information provided in the feedback and their own preceding utterance (Doughty, 2001) Recasts are proposed as an ideal (but not the only) form of negative feedback in TBLT for some classes of grammatical and lexical problems, at least, because they are not intrusive on the processing of meaning during task accomplishment and do not depend upon metalinguistic discussion of a language problem. Recasts are pervasive in child-adult discourse and in L2 classroom

discourse. The psycholinguistic mechanism by which they are believed to work depends upon the juxtaposition of the learner utterance and the recast. It is claimed that learners have sufficient working memory to hold both utterances, thereby enabling the comparison to take place.

One could expect to find recasts in computer-mediated communication, given that the discourse is often more like spoken than written language in nature. However, as noted above, the growing body of research on CMC has revealed that such communication is unique where more than two interlocutors are involved. When the learning context involves asynchronous communication, it is not yet clear what form negative feedback on learner error should take. Written recasts are one possibility, particularly in the task-based context of e-mail communication (for instance between the Wuhan smoking prevention program assessors (see example 3, Figure 2) and their L2 Chinese teachers still resident at USC) and some evidence exists for their effectiveness (Ayoun, 2001; Choi, 2000; Doughty & Varela, 1998) While less desirable in many respects, other possibilities include the range of on-record devices for delivering corrective feedback traditionally found in focus-on-forms classroom instruction and in feedback on written work (see, e.g., Chaudron, 1977, 1987) Increasingly easy to use editing tools (e.g., strike-out) in word processing programs make this kind of feedback at once simpler to provide and perceptually more salient to L2 learners.

MP8 Respect developmental processes and "learner syllabuses"

Research has long shown the existence of universal processes in SLA, such as L1 transfer, overgeneralization, simplification, regularization and stabilization. Surface manifestations of these processes include common errors and error types, developmental plateaus where L1 and interlingual structures are similar, and so on. There is also strong evidence for various kinds of developmental sequences and stages in interlanguage development, e.g., the well known four-stage sequence for ESL negation (Pica, 1983; Schumann, 1979) the six-stage sequence for English relative clauses (Doughty, 1991; Eckman, Bell, & Nelson, 1988; Gass, 1982) and sequences in many other grammatical domains in a variety of L2s (Johnston, 1985, 1997) The sequences are impervious to instruction, in the sense that it is impossible to alter stage order or to make learners skip stages altogether (e.g., R. Ellis, 1989; Lightbown, 1983) Acquisition sequences do not reflect instructional sequences, and *teachability* is constrained by *learnability* (Pienemann, 1984) The idea that what you teach is what they learn, and when you teach it is when they learn it, is not just simplistic, but wrong.

Equally well attested are the beneficial effects of instruction in such areas as accelerating passage through the sequences and extending the scope of application of grammatical rules (Pienemann, 1989), in dealing with areas of the L2 grammar supposedly unlearnable from positive evidence alone (White, 1991), and in generally improving accuracy, rate of learning, and level of ultimate attainment

(Doughty, in press; Long, 1988) The question, then, is how to harmonize instruction with the learner's internal syllabus, with so-called "natural" developmental processes. TBLT does this in a variety of ways, first and foremost by employing an analytic, not synthetic, syllabus, thereby avoiding futile attempts to impose an external linguistic syllabus on learners (the third conditional because it is the third Wednesday in November, etc.) and instead, providing input that is at least roughly tuned to learners' current processing capacity by virtue of having been negotiated by them during collaborative work on pedagogic tasks. The learner syllabus is also respected through use of(reactive) focus on form (MP6, above) and a preference for recasts where the results are comparable with more overt forms of "error correction" (see discussion of MP7, above) as their use by definition implies learner direction to at least some classroom communication. In other words, not only in that course content is determined by student needs, but also in this psycholinguistic sense, TBLT is radically learner-centered. Universal developmental processes and the learner's internal syllabus are clearly and consciously allowed to guide and mediate instruction.

Sadly, under the guise of "resources", technology contributes to the proliferation of traditional language teaching materials, either to accompany synthetic, language-as-object courses, newly packaged for online use, or simply marketed as stand-alone tools. Webpage after webpage of such resources has been compiled by language teaching organizations and institutes. More specifically, grammar "clinics", "doctors", "gurus", even "grammar cafes" abound (for EFL, especially, but are also appearing for other languages) The basic model is that the user submits a grammar question to a so-called expert (for example, an EFL faculty member at a language center or an individual language teacher) or, worse, to other learners. Regardless of delivery format and ease of use, explicit grammar rules and discussion could only feature in a TBLT course when used (sparingly) as one PP among many for providing (reactive) focus on form or negative feedback. Given that research has demonstrated that the order in which language structure is learned is determined psycholinguistically, not by the various orders in which it appears in language textbooks, it is not to be expected that allowing learners to ask questions to assist them with grammar-based materials could be effective in more ways than that. The following two questions taken from an online grammar clinic illustrate this:

- (1) Hanneke of the Netherlands asks: Why is sheep a countable noun?
- (2) And Andres of Venezuela wonders: Is it correct to ask "who's driving ITS car?" if one doesn't know who is the owner of the car ? or would it be better asking "who's driving HIS car?" ? I would like to know what to do in such a case.
- In TBLT, language is never the primary subject matter of instruction, as, unfortunately, it already

is in many online language courses and their linked grammar-diagnostic resources. Such materials would be unsuitable for inclusion in distance task-based LCTL courses, just as they are unsuitable for the languages for which they have already been developed. On a more positive note, MP8 is informative in that, when a learner's stage of development can be ascertained, e.g., via ratings of taped speech samples (see Pienemann, Johnston, & Brindley, 1988) guidelines automatically follow concerning the timing of pedagogic interventions. The teacher is informed about learner readiness for materials facilitating rapid transition to the next developmental stage, and equally, about when *not* to intervene.

MP9 Promote co-operative/collaborative learning

Research findings in both child L1A (Ochs & Shieffelin, 1979) and child and adult L2A (Gass, in press; Hatch, 1978; Long, 1983) reveal a facilitative role in language development for collaborative, "scaffolded" discourse across utterances and speakers. Research in general education (e.g., Barnes, 1976; Holt, 1993; Webb, 1991) has documented the positive effects of co-operative, collaborative group work on attainment. Research on cooperative learning and small group work in second language learning provides similar findings (Jacobs, 1998; Liang, Mohan, & Early, 1998; Long & Porter, 1985; Oxford, 1997; Pica et al, 1996) All these lines of work converge on MP 9.

This has been perhaps the most productive research domain for those investigating network-based language teaching (NBLT) (Warschauer & Kern, 2000) One, perhaps obvious, finding of recent research is that clear goals for collaborative tasks must be established at the outset of the foreign distance course. If not, then course participants will rapidly lose the motivation to engage in online chat, email, or other forms of communication and will become confused as to how they are to collaborate (Fukuda, Komatsu-Yonezawa, Komori & Zimmerman, 2001) The end result when collaborations have no clear goals is failure to engage with the technology.

MP10 Individualize instruction

Work by numerous scholars in general education and in foreign language classrooms has long shown the benefits of tailoring instruction to cater to individual differences in goals, interests, motivation, cognitive style, and learning strategies (Altman & James, 1980; Harlow, 1987; Logan, 1973; Sawyer & Ranta, 2001; Wesche, 1981). Improvements in the measurement of these and other individual difference variables, such as language learning aptitude and short-term memory (see, e.g., Ehrman & Leaver, 2001; N. Ellis, in press; Grigorenko, Sternberg, & Ehrman, 2000; Miyake & Friedman, 2001) further justify the individualization of instruction in any language teaching program. In TBLT, individualization occurs in the selection of syllabus content, in respect for individual internal syllabuses, and in modifications of the pace at which and manner in which instruction is delivered, as

suggested by diagnostic information gathered on individual differences.

Here it is important to point out that the TBLT approach to individualized instruction is not the same thing as the self-directed, autonomous learning that is currently prevalent in approaches to distance education. In those approaches, the learner is given the responsibility for making decisions in essence about *how* to learn. In TBLT, individualization is achieved by virtue of each MP discussed above, from needs analysis, to elaboration of input, to respecting the learner syllabus. Technology options employed in distance education may make such individualization easier, e.g., as described above in the example of provision of large quantities of rich input, but the course designer is ultimately responsible for the underlying learning plan (e.g., syllabus design and sequencing decisions)

7 Conclusion

If their enormous potential is to be harnessed, selections among the ever increasing range of technological options in distance education need to be theoretically and empirically motivated, not simply market-driven, as is too often the case. As a basis for decision-making in the creation of optimal psycholinguistic environments for distance foreign language learning, theory and research in SLA, educational psychology, and other areas of cognitive science will clearly be foundational. The ten MPs of TBLT reflect one attempt to integrate interpretations of such theory and research findings into a coherent design for the delivery of instruction.

Given the checkered history of prescriptions for language teaching, the likelihood that all ten of TBLT's MPs will turn out to have been well founded is minimal. Thus, designers of distance foreign language courses who draw upon those or other sources should build careful evaluation components into their delivery systems. Several typical characteristics of distance education programs for the less commonly taught languages, in particular, including, but not only, (i) the typical absence of L2 exposure outside the courses themselves, (ii) the relative ease the same technology used for instruction brings to tracking input and learner progress in such environments as compared to studies of large group classroom language instruction, and (iii) the relatively high degree of motivation, maturity and sophistication of typical end-users, combine to make evaluation research of this kind unusually feasible and promising.

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		Principles (adapted from Long, to appear a).	L2 Implementation	CALL Implementation
ACTIVITIES				
Μ	IP1	Use tasks, not texts, as the unit of analysis.	Task-based language teaching (TBLT) (target tasks, pedagogical tasks, task sequencing)	Simulations; Tutorials; Worldware
М	IP2	Promote learning by doing.		
INPUT				
М	IP3	Elaborate input (do not simplify; do not rely solely on "authentic" texts).	Negotiation of meaning; Interactional modification; Elaboration	Computer-mediated communication/ discussion; Authoring
М	1P4	Provide rich (not impoverished) input.	Exposure to varied input sources	Corpora; Concordancing
LEARNING PROCESSES	6			
М	1P5	Encourage inductive ("chunk") learning.	Implicit instruction	Design and coding features
М	1P6	Focus on form.	Attention; Form-function mapping	Design and coding features
М	1P7	Provide negative feedback.	Feedback on error (e.g., recasts) ; Error "correction"	Response feedback
М	IP8	Respect "learner syllabuses"/develop-mental processes.	Timing of pedagogical intervention to developmental readiness	Adaptivity
Μ	1P9	Promote cooperative/ collaborative learning.	Negotiation of meaning; Interactional modification	Problem-solving; Computer-mediated communication/ discussion
LEARNERS				
MP	P10	Individualize instruction (according to communicative needs, and psycholinguistically).	Needs analysis; Consideration of individual differences (e.g., memory and aptitude) and learning strategies	Branching; Adaptivity; Autonomous learning

Figure 1: Language Teaching Methodological Principles for CALL

(adapted from Doughty 2000, 2001)

	Level	TBLT?	LCTL?	Distance Ed?	Exists?
Dustin Simulation	Beginning	Nearly	No	Yes	Yes
Korean TBLT Following Directions Module	Beginning	Yes	Yes	No, but adaptation will be discussed	Yes
Longitudinal assessment of a smoking prevention program in Wuhan, China	Advanced	Yes	Yes	Yes	No

Figure 2: TBLT in the Distance Learning of LCTLs

Appendix 1

List of Useful URLs

Name in text	URL
<u>MSU</u>	http://www.langinnovate.msu.edu/
<u>UH</u>	http://nflrc.hawaii.edu/resource_home.cfm
<u>UMinnCARLA</u>	http://carla.acad.umn.edu/lctl/
UCLA	http://www.lmp.ucla.edu/
Eric Database	http://ericir.syr.edu/Eric/index.shtml
<u>ESP Journal</u>	http://www.elsevier.com/locate/esp
ESP on the Web	http://www.unav.es/espSig/esponweb.html
Chinese for cultural	http://www.american.edu/TED/etown/distance/chinalang.htm#l2
<u>entrepreneurship</u>	
Exchanging	http://english.townpage.isp.ntt.co.jp/jtd/biss/jpn/useful01.html
business cards	
Schank and Cleary.	http://www.ils.nwu.edu/~e_for_e
<u>1994</u>	
National Foreign	http://nflrc.hawaii.edu/nflrc_home.cfm
Language Resource	
<u>Center</u>	
Task-based Language	http://www.III.hawaii.edu/nflrc/tblt.html
<u>Teaching in Foreign</u>	
Language Education	
smoking prevention	http://www.usc.edu/hsc/info/pr/1vol4/409/china.html
<u>program</u>	
<u>Arnone, 2001</u>	http://chronicle.merit.edu/free/v48/i13/13a02701.htm
Gonzalez-Lloret,	http://marta.III.hawaii.edu/enbusca/
2002	

<u>Cyberpatient</u>	http://www.mdchoice.com/cyberpt/cyber.asp	
<u>Negritti, 1999</u>	http://llt.msu.edu/vol3num1/negretti/index.html	
<u>Blake, 2000</u>	http://llt.msu.edu/vol4num1/blake/default.html	
scavenger hunts	http://www.expage.com/currandtech	
internet searches	http://www.humbul.ac.uk/vts/english/	
Medline	http://www.nlm.nih.gov/databases/databases_medline.html	
<u>Weeber, 2001</u>	http://www.hoise.com/vmw/01/articles/vmw/LV-VM-03-01-18.html	
LLT Special Issue	http://llt.msu.edu/vol5num3/	
<u>Vol. 5, No. 3</u>		
<u>clinics</u>	http://www.go-ed.com/english/clinic-h.html	
doctors	http://dev.worldsites.net/draft/englishschool/grammar_doctor.html	
<u>gurus</u>	http://www.edufind.com/english/grammar/guru_50Q.cfm	
<u>Long, 1997</u>	http://www.mhhe.com/socscience/foreignlang/top.htm	

Appendix 2 Prototype TBLT module for target task (TT)

Obtaining and following street directions

First-time visitors to foreign cities often need to obtain street directions when lost or, preferably, so as to avoid getting lost in the first place. This typically (although not exclusively) involves politely stopping a stranger to ask the way, explaining where they want to go, possibly answering questions about such matters as the time and means of transport available to them, following the directions given, perhaps requesting clarification or even a complete rerun, perhaps repeating the directions back to check they have got them right, thanking the stranger, and leave-taking.

Some 20 such conversations were surreptitiously recorded in Waikiki⁴, 10 by a NS requester, and 10 by a NNS. Analysis of the transcripts found two basic patterns, depending on (i) the complexity of the direction-giving in terms of distance to the destination, and (ii) whether the requester was a NS or NNS.

When a NS requester and close and easy destinations and directions were involved, direction givers tended to give the whole set of directions all at once. These were then checked by the receiver repeating them. If this showed they had been understood correctly, the giver would confirm, sometimes adding a new detail or two, the receiver thank him or her, and the two part. If the check revealed some misunderstanding, the giver would provide the directions a second time.

Alternatively (still in the context of a NS requester and close and easy destinations and directions), direction givers would provide very detailed directions in stages, receiving back channels to confirm understanding before providing the next part.

When far and hard destinations and directions for a NS were involved, and whenever the requester was a NNS, regardless of whether destination and directions were close and easy or far and hard, directions were often vaguer and always given bit by bit, with comprehension signaled by the requester before the giver moved on to the next part. The requester did not usually try to repeat them for confirmation.

There were variants, of course. For instance, if the person asked did not know the way, either the interaction ended with an apology, or the requester was directed to someone who did know, or perhaps to a map (whereupon a quite different type of direction giving ensues) If two people were asked, the interaction was different, and seemingly more complex. Also, direction givers sometimes threw in comments about the (long) distance involved, and so forth.

Here are two typical conversations, both NS-NS, one close and easy, one far and hard.

1. Close and easy

Excuse me. Would you know where the Duty free shop is?

Oh, just cut through here?

Uh-huh

you cut through here. Go to the coffee shop and cross over and you'll- and you're right in front of it.

You walk down this street. Oh, actually,

No, you walk to the end.

Go to the corner and keep walking through there.

Okay. Okay, thank you.

2. Far and hard

Excuse me. Do you know where the	
Imax Theater is?	
	You're way off, but Imax Does it show
	over there? It's way back that a way.
Oh, okay.	
	It's by the uh do you know where the
	Royal Hawaiian Shopping Center is?
(shakes head)	
	Alright. You go down until you hit Lewers
	Street.
Uh-huh.	
	Then you go up towards the mountains.
Uh-huh	
	It'll be about half a block in.
Okay. Thank you.	
	You're welcome.

Target Task

TT 1: Obtaining and following street directions

Rationale and overview

The TT for this module is obtaining and following street directions. The module consists of a sequence of seven pedagogic tasks (PT 1-7) The purpose is to raise students' performance to a level at which they can politely request, and understand street directions to both nearby and distant destinations. The first three tasks are to be done in a teacher-fronted, whole class format (although individual students can take the teacher's role after some models from you) The aim is to provide intensive exposure to typical NS directions. At this stage, the students are not required to produce, but simply to listen. During PT 1, and in PT 2 and PT 3, they show comprehension by moving their fingers on very simple, two-dimensional street maps. The next task, PT 4, still uses the simple two-dimensional maps, and is done in small groups after a demonstration by you. It involves comprehension and some production, but the emphasis here and throughout this module is on following directions, since this is what visitors need to be able to do and since, as visitors in a strange city, they will rarely be in the role of direction giver. PT 5 and PT 6 increase the complexity of the directions and involve a real map

of a real town (Waikiki) Both PT 5 and PT 6 provide more intensive practice of something now very close to the full target task. The final task, PT 7, provides practice with as close an approximation to the target task as can easily be completed in most classrooms (unless they have special technical equipment) As such, it can double as a trial run for the exit test (to be completed at a later date) The seven PTs should take about 60 minutes to complete, but times are approximate and should be adjusted by you according to your students' of progress. Pedagogic adjustments may also be needed in some cases.

Pedagogic Tasks

PT 1 The real thing

Materials: Tape-recorder and audio tape

Procedure: Teacher explains that today's lesson is on how to obtain and understand street directions to nearby and distant destinations from a passer-by. Teacher then tells students to listen carefully to the three sample conversations -- real examples of NS giving directions -- but not to worry if they do not understand everything. He/she then plays the tape through twice ($3 \times 2 = six$ brief conversations in all) [5 minutes]

PT 2 Fragments

Materials: OHP (or if unavailable, blackboard) and student worksheets.

Procedure: Teacher displays a series of three simple street maps on the OHP, one at a time. Students look at the same map on their worksheets. One at a time, the teacher then reads out 60 street directions fragments, 20 for each map, twice each at first, and students trace that part of the route on their worksheets with their fingers, stopping where they think the direction takes them. The teacher then repeats that direction twice more, moving his/her finger on the OHP, and students thereby receive confirmation or, if that be the case, see where they went wrong. This is not a test. Students are not asked if they were successful. It is assumed they will need numerous hearings before success becomes routine. These early PTs allow for private practice and improvement first. The 60 fragments, which gradually increase in complexity, are genuine excerpts, or only slightly cleaned up versions, or melds, from the target discourse samples obtained as part of the needs analysis. If this kind of activity is unfamiliar to your students, provide clear explanations and one or two models, as needed, before beginning. In some classes, students may be capable of taking over the teacher's role after sufficient examples. [10 minutes]

See student worksheets 1-3 for the maps, and teacher OHP transparencies 1-3 for the same maps, and the accompanying worksheet for the 60 fragments.

Sample items:

- 1. Go straight down Kalakaua Avenue two blocks, and turn right.
- 2. Go to the first corner and turn left.
- 3. Go to the first corner and take a right.
- 4. Go down Kalakaua Avenue two blocks. Make a right.
- 5. Go two blocks up Kalakaua. Make a right, and then the first left.
- Etc.

PT 3 Where are you now?

Materials: OHP (or blackboard) and three new simple maps on student worksheets. These maps are more detailed, including some additional street names and very simple three-dimensional drawings or symbols of some frequent types of buildings (church, school, bank, museum, etc.) and other typical landmarks (shopping mall, university, railway station, etc.)

Procedure: Same as for PT 2, except that this time, (i) the directions will tend to be a little more complex because the distances involved will gradually be longer, and (ii) after each one, the teacher will ask the class, gradually shifting to individual students, a question after each one, e.g., What street are you on now? What's the building in front of you? If you are now facing north on Main, is the bank on your left or your right? (Note: Teachers should NOT teach any supposedly unknown vocabulary items first. Students can be expected to learn any such items through doing the task.) Again, allow students to take over the teacher's role if capable of doing so. [10 minutes]

See student worksheets 4-6 for the maps, and teacher OHP transparencies 4-6 for the same maps, and the accompanying worksheet 2 for the 60 new fragments and questions.

Sample items:

- 1. Go two blocks on Main, and turn left. What street are you on now?
- 2. Take the first right on Main. Is Trinity Church on your left or your right?
- 3. Go down Main, past Shipley Road, and take the next right. What street is that?
- 4. Continue on Redfern Avenue. Make a right, and then an immediate left. What building is in front of you?
- 5. Go up Main, and make a left on Shipley. Keep going straight on Shipley. How many blocks to the Museum, and is it on the left or right?

Etc.

PT 4 Asking the way

Materials: Tape recorder and cassette. Worksheets with the same maps as were used in PT 3. other sheets each with a mix of 15 of the original 60 directions and questions used in PT 3, and 15 new

items of the same type.

Procedure: Replay the original three dialogs, once each, and three additional ones. Then divide the students into groups of four. Students work as two pairs inside each group, each pair with a copy of the map and one of the worksheets. One pair reads out the directions while the other follows them for item 1, then reverses the giver and receiver roles for item 2, and so on. Demonstrate the procedure first if this is a new kind of activity for your students. (If more practice is needed, the whole procedure can be repeated with a second pair of worksheets containing another set of 30 items, using the same maps, but with the students this time working in pairs rather than groups of four.) [10 minutes]

PT 5 Follow the marked route

Materials: Real three-dimensional tourist maps of a potential destination town in the L2 environment for the students concerned, e.g., the map of Waikiki issued to all passengers arriving at Honolulu International Airport. The map has five different routes marked on it to and from various sites, ideally in different colors. The audio-tape of 10 sets of directions describing the five routes. (The teacher could read these aloud if a tape is unavailable, in which case scripted versions of the directions will be required for the teacher.)

Procedure: Students hear two versions (A to B, and B to A; C to D, and D to C; etc.) of five sets of taped directions (= 10 in all) while following the routes already marked out by the five colored lines on the map. [5 minutes]

PT 6 Follow the unmarked route, in segments

Materials: The same three-dimensional maps used in PT 5, now one per person, and an audio-tape with five new sets of directions from points marked on the map to destinations not marked on it.

Procedure: Students are told they are at point A (B, C, etc.) marked on their maps. They hear taped directions to new unknown destinations, and trace the routes on the map with their fingers. The directions are in segments, with check questions of the sort used in PT 3 (What's the building in front of you? What street are you on now?) as they go. Students complete this task individually, but with answers to the check questions spoken aloud and confirmed or corrected by the teacher or other students as they go. The final question after each set of directions is a variant of "Where are you?" or "What's the building we are now at?" [10 minutes]

PT 7 Follow the unmarked route in its entirety

Materials: The same three-dimensional maps as in PT 5 and 6. Taped versions of five new sets of directions.

Procedure: Students do the same as in PT 7, but in one go, i.e., without breaks and check questions

along the way, labeling the building/space/etc. on their maps at the end of each route as evidence that they have successfully reached their destinations. To ensure they really have identified the right place, they also answer a check question of the sort used earlier, e.g., "And what's the building next door/across the street?" (Note: This PT can also serve as the exit test for this module if a better simulation or, ideally, the real target task, is unavailable.) [10 minutes]

Notes

- 1) Whereas the primary goal of a SLA theorist is to identify the necessary and sufficient conditions for acquisition, a language teaching theorist is concerned with any and all variables that make learning *efficient*. A methodological practice that speeds up foreign language development, for instance, will be of great importance to teachers and learners alike, regardless of whether it is absolutely necessary. An undesirable increase in the power of the first type of theory will matter little where the second is concerned. (For further discussion, see Long, 2000b.) A mistake made by more than one well-known SLA theorist has been to confuse the two, presenting a SLA theory (well-founded or not) as the basis for a prescription for teaching.
- 2) Most course management software is designed for the teaching of some subject matter, i.e., a body of knowledge. While language can be taught as object, this approach is eschewed in TBLT.
- 3) Adult native speakers do this frequently, using "repeating resources" (Schenkein, 1980) resulting in a "correspondence effect" (Levelt and Kelter, 1982) That is to say, rather than construct each utterance anew, speakers track and use chunks of previous discourse in formulating new utterances.
- 4) The example given is from the English prototype for the Korean Directions Module. For the actual Korean directions, target discourse data was collected in Seoul.