

Creating a knowledge base of effective barrier-free housing repairs for the living security of elderly people

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1. Foreword

As the dawning of a super-aging society approaches, housing reforms like barrier-free repairs will be required in order for elderly people to continue to live in the homes that they are used to living in. After the establishment of the nursing-care insurance system, barrier-free repairs have become more common, however, it cannot be said that appropriate housing repairs that fuse building expertise with experts in care has become sufficiently widespread.

Because of this, a knowledge base of planning technology information for effective barrier-free housing repairs was created, implementing survey research of housing repair methods supporting the various psychosomatic conditions and planning conditions of elderly people.

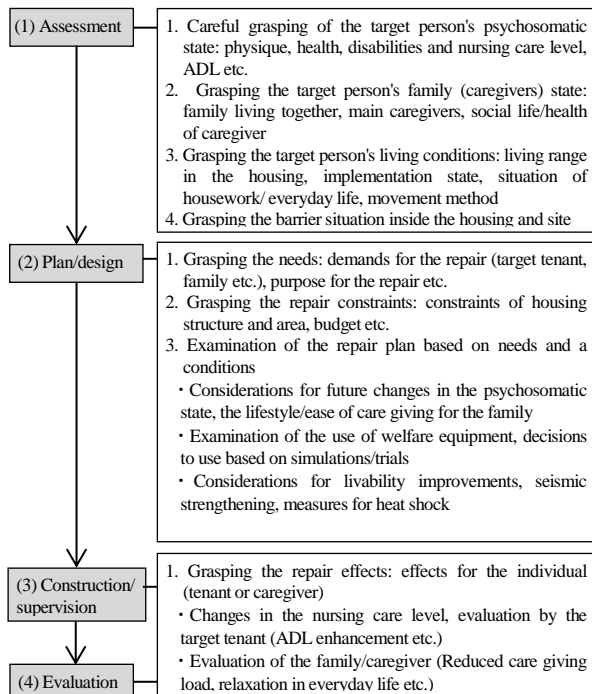


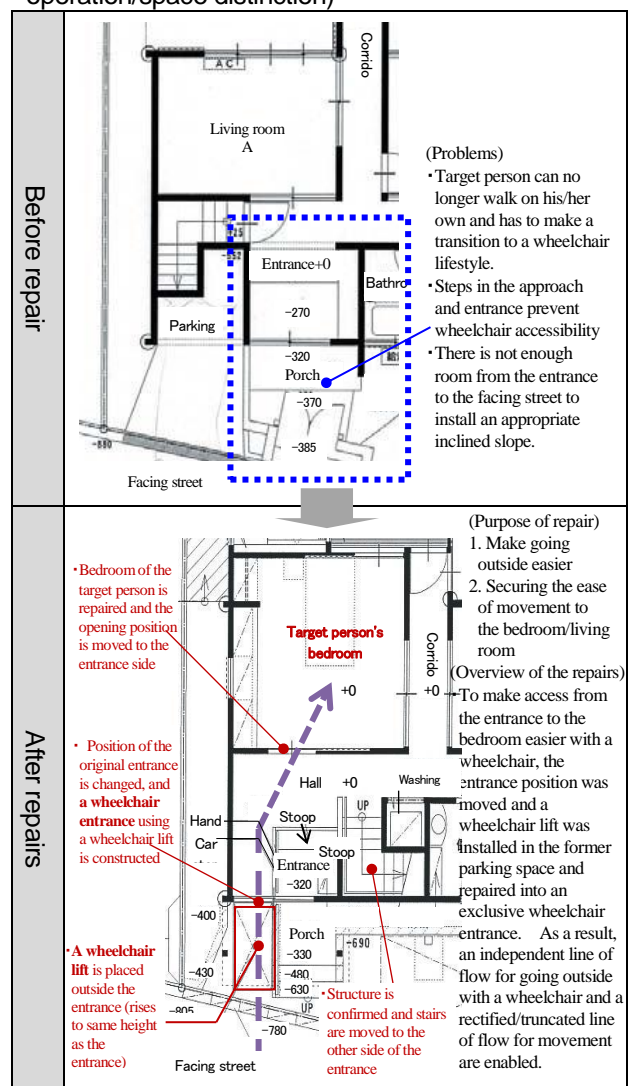
Figure 1: Proceeding with barrier-free repairs and viewpoints

2. The standardization of proceeding with barrier-free repairs

The procedure as shown from the viewpoint of Figure 1 is desirable regarding effective barrier-free repairs. Through collaborations with qualified architects and care

experts, plans based on required conditions is necessary

Table 1: Knowledge base examples (basic operation/space distinction)



by conducting precise assessments of the target tenant and housing. As well, after the repair or a fixed period time, an evaluation of the repair effects (targeting the tenant or the caregiver) is required.

3. Creating a knowledge base of barrier-free housing repairs

Investigations regarding the planning process and repair effects of barrier-free repair examples (31 examples) of

building and care expert collaborations were conducted, and a knowledge base was created for technical information pertaining to effective housing barrier-free repairs.

4. Releasing and making the results widespread

We will release the results in NILIM research reports and plan its widespread use by holding lectures for businesses etc.