



Dancing towards better brain health: Virtual GERAS DANCE implementation for dementia care across Canada

Patricia Hewston^{ab}, Caroline Marr^{ab}, Ali Dashti^{ab}, Genevieve Hladysch^c, Esther Coker^{ad}, Joye St. Onge^{ab}, George Ioannidis^{ab}, Courtney Kennedy^{ab}, Alexandra Papaioannou^{abe}

^aGeras Centre for Aging Research; ^bDepartment of Medicine, McMaster University; ^cYMCA of Hamilton|Burlington|Brantford; ^dSchool of Nursing, McMaster University; ^eDepartment of Health Research Methods, Evidence, and Impact, McMaster University; Hamilton Health Sciences

OBJECTIVE

- To explore strategies for successful implementation of **virtual adaptation of GERAS DANCE**, a specialized evidence-based program shown to improve brain health and mobility in older adults, across diverse settings in Canada.

METHODS

- Research framework:** Consolidated Framework for Implementation Research (CFIR) [1]
- Participants:** 22 healthcare professionals who were involved in the implementation of virtual GERAS DANCE to 135 older adults at 12 diverse sites.
- Virtual GERAS DANCE intervention:**
 - Collaborative community approach with live-streamed sessions from the YMCA of Hamilton Burlington Brantford and on-site support staff at each diverse site across Canada.
 - Twice-weekly, 1-hour sessions for 6 weeks.
- Data collection:** Surveys and semi-structured interviews after 6 weeks of virtual GERAS DANCE.
- Analysis:** Descriptive statistics and identification of influential constructs with a cross-case comparison of the CFIR constructs including the outer setting, inner setting, individual characteristics, implementation process & innovation characteristics.

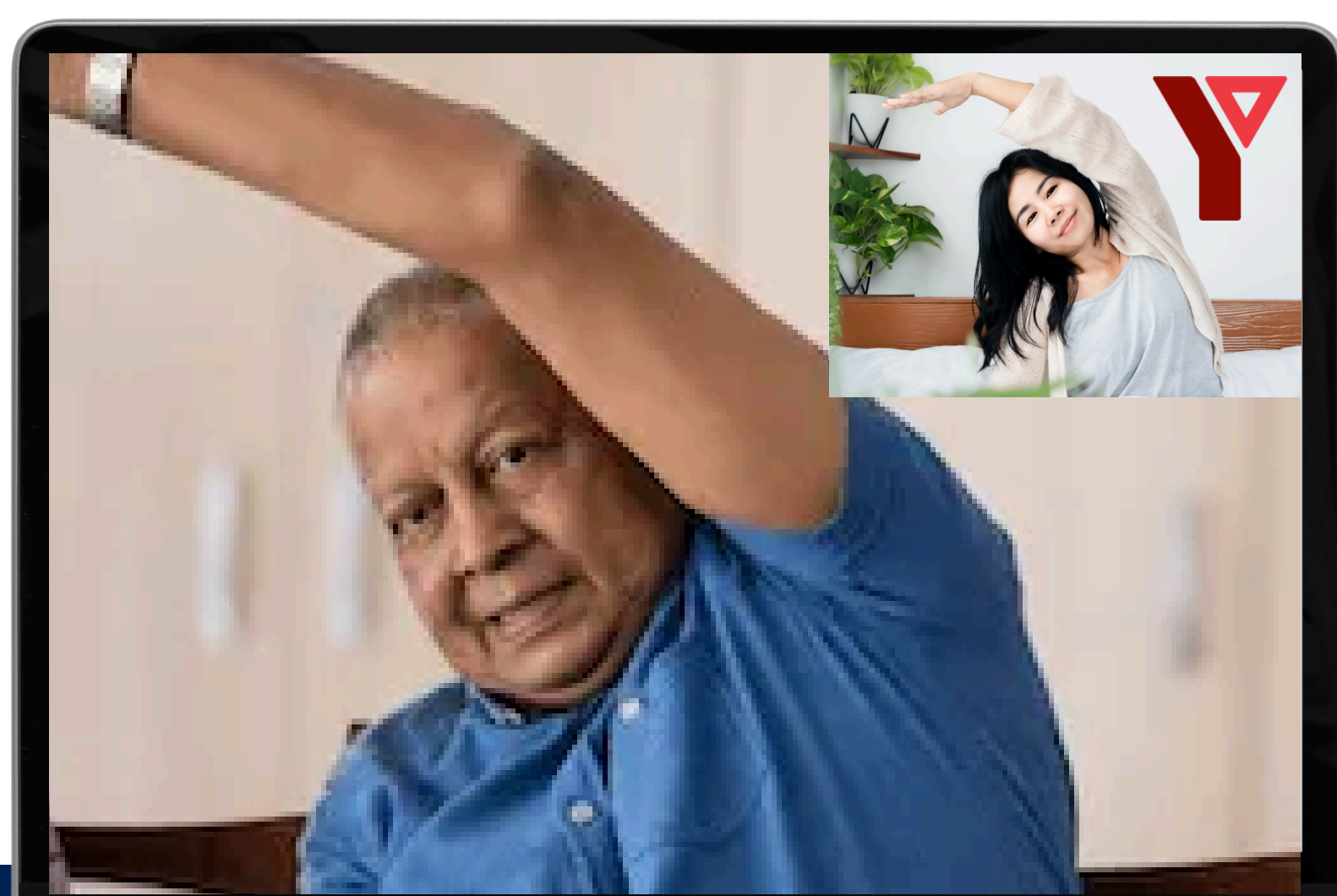


Figure 1. Participant Flow Diagram

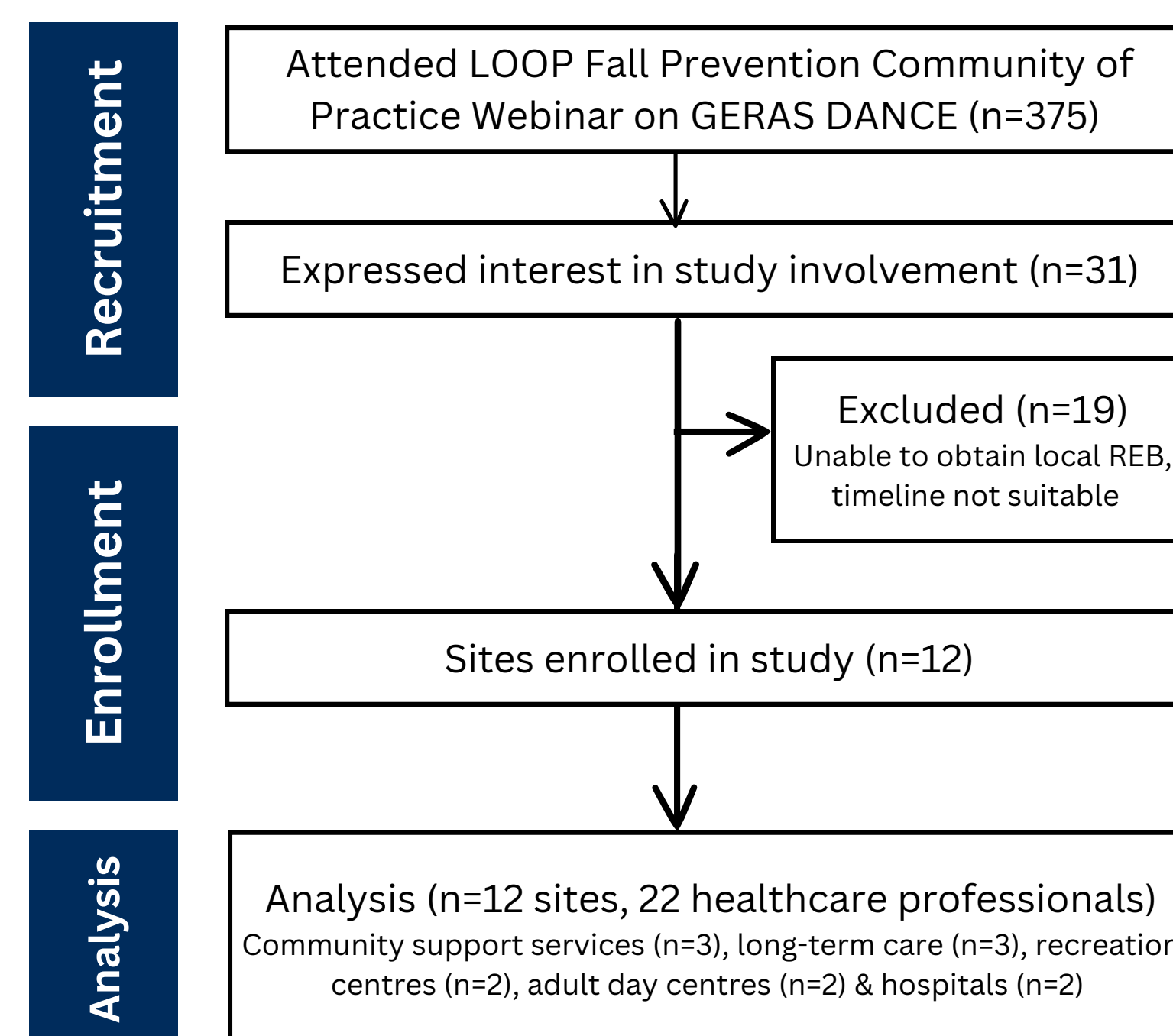
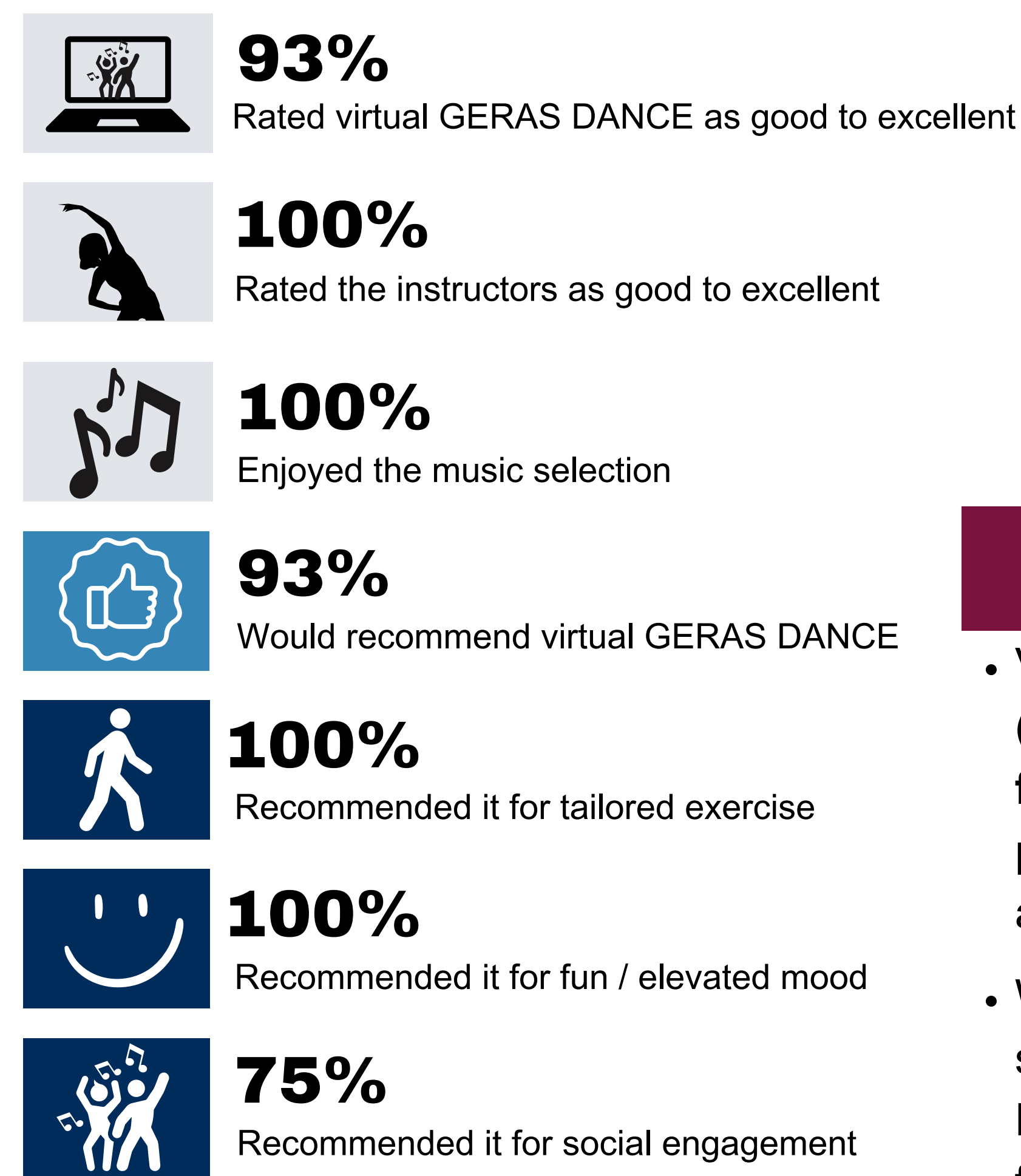
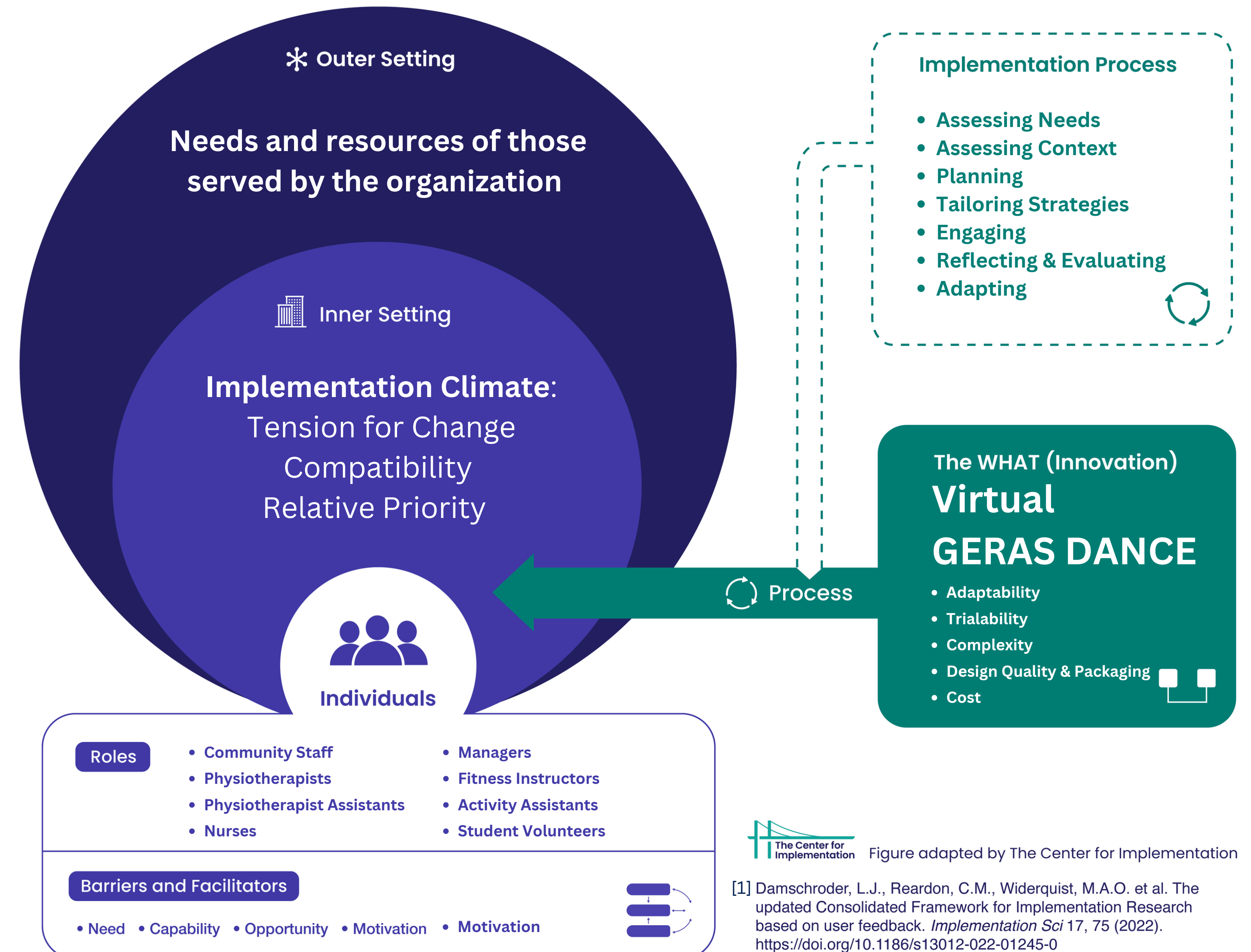


Figure 2. Survey Results



RESULTS

Figure 3. Consolidated Framework for Implementation Research Interview



DISCUSSION

- Virtual GERAS DANCE's appealing elements (e.g., **enjoyable music, exercise and dementia-friendly elements**) were strong motivators for program adoption, supported by staff readiness and high demand for virtual programs.
- Within the participating organizations (inner setting) we used live-streamed certified GERAS DANCE instructors and onsite support staff which facilitated rapid and user-friendly implementation.
- Strategies to engage **individuals with late-stage dementia** included using personalized music, shorter and more frequent sessions, and multisensory elements to sustain attention.

