

Methodology: Field Study

Dimensions	Exemplary 4	Proficient 3	Marginal 2	Unacceptable 1
Appropriateness of Choice of Method	<p>Exceptional level of all of the following:</p> <ul style="list-style-type: none"> - The study aimed to understand research questions that have close coupling of the environment and the concern for systems that engage with users in situ across temporal conditions - Experiential concepts are evaluated rather than focusing on technical capabilities of a system 	<p>Proficient/ mastery level of most of the following:</p> <ul style="list-style-type: none"> - The study aimed to understand research questions that have close coupling of the environment and the concern for systems that engage with users in situ across temporal conditions - Experiential concepts are evaluated rather than focusing on technical capabilities of a system 	<p>Marginal/borderline level of most of the following:</p> <ul style="list-style-type: none"> - The study aimed to understand research questions that have close coupling of the environment and the concern for systems that engage with users in situ across temporal conditions - Experiential concepts are evaluated rather than focusing on technical capabilities of a system 	<p>Unacceptable level of most of the following:</p> <ul style="list-style-type: none"> - The study aimed to understand research questions that have close coupling of the environment and the concern for systems that engage with users in situ across temporal conditions - Experiential concepts are evaluated rather than focusing on technical capabilities of a system
Ethical Considerations	<p>Exceptional level of all of the following:</p> <ul style="list-style-type: none"> - Power dynamics between the researchers, participants, and partners were considered - Considerations were made for the time commitment expected of the participants - Ethical implications of removing the system after the study were considered - Participants were given appropriate compensation 	<p>Proficient/ mastery level of most of the following:</p> <ul style="list-style-type: none"> - Power dynamics between the researchers, participants, and partners were considered - Considerations were made for the time commitment expected of the participants - Ethical implications of removing the system after the study were considered - Participants were given appropriate compensation 	<p>Marginal/borderline level of most of the following:</p> <ul style="list-style-type: none"> - Power dynamics between the researchers, participants, and partners were considered - Considerations were made for the time commitment expected of the participants - Ethical implications of removing the system after the study were considered - Participants were given appropriate compensation 	<p>Unacceptable level of most of the following:</p> <ul style="list-style-type: none"> - Power dynamics between the researchers, participants, and partners were considered - Considerations were made for the time commitment expected of the participants - Ethical implications of removing the system after the study were considered - Participants were given appropriate compensation
Procedure/ Field Study Design	<p>Exceptional level of all of the following:</p> <ul style="list-style-type: none"> - The impact of technology was 	<p>Proficient/ mastery level of most of the following:</p> <ul style="list-style-type: none"> - The impact of technology was 	<p>Marginal/borderline level of most of the following:</p> <ul style="list-style-type: none"> - The impact of technology was 	<p>Unacceptable level of most of the following:</p> <ul style="list-style-type: none"> - The impact of technology was

	<p>evaluated within the intended context of use</p> <ul style="list-style-type: none"> - Any changes that may have been made to the procedure or system were clearly outlined - If a study's research questions required limited researcher intervention this was considered and materials were designed accordingly - Ensured that there were checkpoints in the study for discussing ideas and results between investigators and/or participants - Study design allowed for lengthy review and discussion of the technology by participants (to be able to explore "participants as investigators" for the design process and for narrative inquiry) - Accounted for temporal changes in conditions - Considered diversifying methods to understand how the relationships between the participants, and the framing of the system can lead to variations in types of use between participants 	<p>evaluated within the intended context of use</p> <ul style="list-style-type: none"> - Any changes that may have been made to the procedure or system were clearly outlined - If a study's research questions required limited researcher intervention this was considered and materials were designed accordingly - Ensured that there were checkpoints in the study for discussing ideas and results between investigators and/or participants - Study design allowed for lengthy review and discussion of the technology by participants (to be able to explore "participants as investigators" for the design process and for narrative inquiry) - Accounted for temporal changes in conditions - Considered diversifying methods to understand how the relationships between the participants, and the framing of the system can lead to variations in types of use between participants 	<p>evaluated within the intended context of use</p> <ul style="list-style-type: none"> - Any changes that may have been made to the procedure or system were clearly outlined - If a study's research questions required limited researcher intervention this was considered and materials were designed accordingly - Ensured that there were checkpoints in the study for discussing ideas and results between investigators and/or participants - Study design allowed for lengthy review and discussion of the technology by participants (to be able to explore "participants as investigators" for the design process and for narrative inquiry) - Accounted for temporal changes in conditions - Considered diversifying methods to understand how the relationships between the participants, and the framing of the system can lead to variations in types of use between participants 	<p>evaluated within the intended context of use</p> <ul style="list-style-type: none"> - Any changes that may have been made to the procedure or system were clearly outlined - If a study's research questions required limited researcher intervention this was considered and materials were designed accordingly - Ensured that there were checkpoints in the study for discussing ideas and results between investigators and/or participants - Study design allowed for lengthy review and discussion of the technology by participants (to be able to explore "participants as investigators" for the design process and for narrative inquiry) - Accounted for temporal changes in conditions - Considered diversifying methods to understand how the relationships between the participants, and the framing of the system can lead to variations in types of use between participants
<p>Quality of Writing</p>	<p>Exceptional level of all of the following:</p> <ul style="list-style-type: none"> - Goals of the research were clearly stated 	<p>Proficient/ mastery level of most of the following:</p> <ul style="list-style-type: none"> - Goals of the research were clearly stated 	<p>Marginal/borderline level of most of the following:</p> <ul style="list-style-type: none"> - Goals of the research were clearly stated 	<p>Unacceptable level of most of the following:</p> <ul style="list-style-type: none"> - Goals of the research were clearly stated

	<ul style="list-style-type: none"> - Alterations to the prototype or research goals were clearly outlined, if any - Exposition was clear throughout the paper and clearly explained trends in the results - Data cleaning procedures were reported, if applicable - Ideas were given proper attribution from authors, investigators, or participants - Field study environments were clearly outlined - Relevant characteristics of the participants and investigators were clearly outlined 	<ul style="list-style-type: none"> - Alterations to the prototype or research goals were clearly outlined, if any - Exposition was clear throughout the paper and clearly explained trends in the results - Data cleaning procedures were reported, if applicable - Ideas were given proper attribution from authors, investigators, or participants - Field study environments were clearly outlined - Relevant characteristics of the participants and investigators were clearly outlined 	<ul style="list-style-type: none"> - Alterations to the prototype or research goals were clearly outlined, if any - Exposition was clear throughout the paper and clearly explained trends in the results - Data cleaning procedures were reported, if applicable - Ideas were given proper attribution from authors, investigators, or participants - Field study environments were clearly outlined - Relevant characteristics of the participants and investigators were clearly outlined 	<ul style="list-style-type: none"> - Alterations to the prototype or research goals were clearly outlined, if any - Exposition was clear throughout the paper and clearly explained trends in the results - Data cleaning procedures were reported, if applicable - Ideas were given proper attribution from authors, investigators, or participants - Field study environments were clearly outlined - Relevant characteristics of the participants and investigators were clearly outlined
<p>Consideration of Demand Characteristics *</p>	<p>Exceptional level of all of the following:</p> <ul style="list-style-type: none"> - Investigators are seen as “inside the loop” or “investigators as participants” - Consideration of the effects of the relationship between the researchers and the participants on the results - Consideration of how incentives play a role in participants behaviour and interaction 	<p>Proficient/ mastery level of most of the following:</p> <ul style="list-style-type: none"> - Investigators are seen as “inside the loop” or “investigators as participants” - Consideration of the effects of the relationship between the researchers and the participants on the results - Consideration of how incentives play a role in participants behaviour and interaction 	<p>Marginal/borderline level of most of the following:</p> <ul style="list-style-type: none"> - Investigators are seen as “inside the loop” or “investigators as participants” - Consideration of the effects of the relationship between the researchers and the participants on the results - Consideration of how incentives play a role in participants behaviour and interaction 	<p>Unacceptable level of most of the following:</p> <ul style="list-style-type: none"> - Investigators are seen as “inside the loop” or “investigators as participants” - Consideration of the effects of the relationship between the researchers and the participants on the results - Consideration of how incentives play a role in participants behaviour and interaction
<p>Analysis</p>	<p>Exceptional level of all of the following:</p> <ul style="list-style-type: none"> - Authors added context to their findings to back up the contributions 	<p>Proficient/ mastery level of most of the following:</p> <ul style="list-style-type: none"> - Authors added context to their findings to back up the contributions 	<p>Marginal/borderline level of most of the following:</p> <ul style="list-style-type: none"> - Authors added context to their findings to back up the contributions - Incremental, continuous 	<p>Unacceptable level of most of the following:</p> <ul style="list-style-type: none"> - Authors added context to their findings to back up the contributions - Incremental, continuous

	<ul style="list-style-type: none"> - Incremental, continuous analysis of data informed potential procedural changes, if any - If it was not possible to find statistically significant results then intermediate and process-based outcomes were analyzed - If the adoption is evaluated, it was evaluated separately from the system use 	<ul style="list-style-type: none"> - Incremental, continuous analysis of data informed potential procedural changes, if any - If it was not possible to find statistically significant results then intermediate and process-based outcomes were analyzed - If the adoption is evaluated, it was evaluated separately from the system use 	<p>analysis of data informed potential procedural changes, if any</p> <ul style="list-style-type: none"> - If it was not possible to find statistically significant results then intermediate and process-based outcomes were analyzed - If the adoption is evaluated, it was evaluated separately from the system use 	<p>analysis of data informed potential procedural changes, if any</p> <ul style="list-style-type: none"> - If it was not possible to find statistically significant results then intermediate and process-based outcomes were analyzed - If the adoption is evaluated, it was evaluated separately from the system use
<p>Analysis - Consideration of participants as investigators *</p>	<p>Exceptional level of all of the following:</p> <ul style="list-style-type: none"> - Researchers considered how participants can act as investigators and drive their own interaction or interaction in groups in a specific way (e.g., adjust their own practices as the field study progresses for the investigator's purpose, act as an enthusiastic "leader" in a group) <ul style="list-style-type: none"> - Consideration that these usages could be the <i>least</i> typical - Investigators understood that the frequency of an observation can have no relationship with insightfulness <ul style="list-style-type: none"> - Investigators acknowledged that behaviour around the system is something that develops over time therefore participants are not a simple 'sample' of the greater population 	<p>Proficient/ mastery level of most of the following:</p> <ul style="list-style-type: none"> - Researchers considered how participants can act as investigators and drive their own interaction or interaction in groups in a specific way (e.g., adjust their own practices as the field study progresses for the investigator's purpose, act as an enthusiastic "leader" in a group) <ul style="list-style-type: none"> - Consideration that these usages could be the <i>least</i> typical - Investigators understood that the frequency of an observation can have no relationship with insightfulness <ul style="list-style-type: none"> - Investigators acknowledged that behaviour around the system is something that develops over time therefore participants are not a simple 'sample' of the greater population 	<p>Marginal/borderline level of most of the following:</p> <ul style="list-style-type: none"> - Researchers considered how participants can act as investigators and drive their own interaction or interaction in groups in a specific way (e.g., adjust their own practices as the field study progresses for the investigator's purpose, act as an enthusiastic "leader" in a group) <ul style="list-style-type: none"> - Consideration that these usages could be the <i>least</i> typical - Investigators understood that the frequency of an observation can have no relationship with insightfulness <ul style="list-style-type: none"> - Investigators acknowledged that behaviour around the system is something that develops over time therefore participants are not a simple 	<p>Unacceptable level of most of the following:</p> <ul style="list-style-type: none"> - Researchers considered how participants can act as investigators and drive their own interaction or interaction in groups in a specific way (e.g., adjust their own practices as the field study progresses for the investigator's purpose, act as an enthusiastic "leader" in a group) <ul style="list-style-type: none"> - Consideration that these usages could be the <i>least</i> typical - Investigators understood that the frequency of an observation can have no relationship with insightfulness <ul style="list-style-type: none"> - Investigators acknowledged that behaviour around the system is something that develops over time therefore participants are not a simple 'sample' of the greater population

	<p>- Moved beyond using participants as passive subjects by considering participants as analysts of their own and other's practices (i.e acknowledges that it is through participants' own insights that the power of the study can be focused)</p>	<p>- Moved beyond using participants as passive subjects by considering participants as analysts of their own and other's practices (i.e acknowledges that it is through participants' own insights that the power of the study can be focused)</p>	<p>'sample' of the greater population - Moved beyond using participants as passive subjects by considering participants as analysts of their own and other's practices (i.e acknowledges that it is through participants' own insights that the power of the study can be focused)</p>	<p>- Moved beyond using participants as passive subjects by considering participants as analysts of their own and other's practices (i.e acknowledges that it is through participants' own insights that the power of the study can be focused)</p>
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** These dimensions are not completely integrated into the analyses and procedures since they are not yet commonly practiced but have been suggested to improve field studies as a methodology.*