## COMPARATIVE ANALYSIS OF TYPOLOGIES WITHIN EXTENSION TEN TYPOLOGY 1 TYPOLOGY 2 **TYPOLOGY 3** All families are single and nuclear except for one. There is one Three single nuclear families exist here with one single nuclear family Four families are single nuclear and one woman-headed. woman-headed family. with extended family members and one woman-headed family with Family size ranges from 3 to 6 with an average of 4. SOCIO-ECONOMIC Family sizes range from 5 to 6 and average of 6. extended family members. None of the families have tenants. Two households have tenants (A and B). Family sizes range between 4 and 9 with an average of 7. Household size also ranges from 3 to 6 with an average of 4. The average household size is 7, ranging from 5 to 9. Household size also ranges between 4 and 9 with and average of 7. Each family has one source of income except for household D that On average each household has two sources of income. It None of the households has tenants. has two sources. On average each household has one source. STATUS Income sources range from 1 to 4. The average household income is 2. ranges from 1 to 3. The income sources tend to be accounted for by two part-time The dominant employment source is through Part time employment seem to dominate the typology (5 cases). The jobs, two entrepreneurial/informal jobs, one full-time employment entrepreneurial/informal activity, follows by full time other sources are through full-time employment and pension. and one grant. employment and then part-time employment. On average families have eleven expenses. On average this typology displays an average of 8 expense items. The average number of expenses within each household is 9. Three households are able to save. None of the households are able to save. Only one household is able to save (E). Ξ. Four out of five initial structures were toilets. One household Four of five initial structures were toilets. One household constructed All initial structures were toilets provided by government and had built a shack a shack placed at the back of the erven in either the left or right corners. Roof structures were provided progressively after all erven had Roof structures were provided by government after toilets Roof structures and one room under the roof structure were provided were provided. This was followed by one room under the roof after the toilets were provided. toilets. In this case, the roof structures were provided after all structure 14 additions have been made in total: four were houses in construction, households had constructed one shack. Ten additions by residents had been made in total. nine were shacks, and one was an additional room. Eleven additions had been made in total. Of these 11, five were Nine additions were shacks and one was a house. All shacks were made of temporary materials, the rest were made of shacks, five were completed houses, and one was a garage. All households made two additions except for household C (three Three households had made two additions (households A, C and permanent materials. D), one household had made three additions, and household E Where information (however, minuscule) was available, the following additions) Where information (however, minuscule) was available, the had made one addition was noted: All shacks were made of temporary materials and houses of In most cases permanent materials were sought outside following was noted: 0 permanent materials. Mamelodi and temporary materials within Mamelodi. A few All shacks were constructed of temporary materials Where information (however, minuscule) was available, the cases go against this trend, i.e. permanent materials were and houses of permanent materials. following was noted: sought within and temporary materials were sought Temporary materials were purchased from within Materials for shacks were sought in Mamelodi and outside. Mamelodi and permanent materials from outside 0 Costs range between R330 - R3 040. The cost of materials for houses were sought outside Mamelodi. 0 Mamelodi. temporary structures ranges between R330 to R2 000. Costs for temporary structures range from R500 to 0 Costs range from R650 to R2400. Permanent structures cost between R1 000 and R3 040. R900. Permanent structures cost between R1 000 to 0 ADDITIONS In most cases savings was the source of funding. Savings was mostly the source of income. Retirement R3 000. 0 Builders: a large number of private contractors money was also used in one particular household. Majority of savings money was used. One loan had 0 Owners used their own skills in the construction 95% of were used. A few owners built their own additions been acquired. and others employed the material suppliers. the time whilst private contractors were appointed 5% of Builders of shacks were either owners or material 0 The time lapse between additions range from one 0 the time suppliers. The time lapse between additions range between a few to four years. Builders of houses were private contractors. 0 ~ months to seven years. The time lapse between additions was between one and four years.

	COMPARATIVE ANALYSIS OF TYPOLOGIES WITHIN EXTENSION TEN			
	TYPOLOGY 1	TYPOLOGY 2	TYPOLOGY 3	
TIME	NUMBER OF EXTENSIONS AND THE TREND IN USE OF MATERIALS         • An average of two extensions per household has been made.         • All shacks were constructed of temporary materials and formal structures from permanent materials.         SIZE         • Average erf size: 215m <sup>2</sup> • Average extension size: 21m <sup>2</sup> • Average extension size: 7%	NUMBER OF EXTENSIONS AND THE TREND IN USE OF MATERIALS         • An average of approximately three shacks per household.         • All shacks were constructed of temporary materials and houses (incomplete) were constructed from permanent materials.         SIZE         • Temporary structures total area: 155m <sup>2</sup> • Temporary structures average area: 31m <sup>2</sup> • Temporary structures average size: 17m <sup>2</sup> • Temporary structures average coverage: 16%	NUMBER OF EXTENSIONS AND THE TREND IN USE OF MATERIALS         • An average of two additions per household was noted.         • All shacks were constructed of temporary materials and houses of permanent materials.         SIZE         • Temporary structures total area: 58m <sup>2</sup> • Temporary structures average area: 19m <sup>2</sup> • Temporary structures average coverage: 10m <sup>2</sup>	
CHANGED OVER	<ul> <li>Average occupational density: 6m<sup>2</sup>/person</li> <li>SHAPE AND CONFIGURATION         <ul> <li>Shape: All shacks appear rectangular in shape. The houses constructed take irregular shapes: trellised and 'L' shaped.</li> <li>Average dimensions: 3.6m x 5.2m</li> </ul> </li> <li>PLACING OF BUILDINGS         <ul> <li>In most cases shacks were placed at the back of the erven and</li> </ul> </li> </ul>	<ul> <li>Permanent structures total area: 228m<sup>2</sup></li> <li>Permanent structures average area: 46m<sup>2</sup></li> <li>Permanent structures average size: 46m<sup>2</sup></li> <li>Permanent structures average coverage: 23%</li> <li>Combined average extension size: 27m<sup>2</sup></li> <li>Combined average area: 77m<sup>2</sup></li> <li>Combined average coverage: 38%</li> <li>Combined average occupational density: 12m<sup>2</sup>/person</li> </ul>	<ul> <li>Permanent structures total area: 290m<sup>2</sup></li> <li>Permanent structures average area: 58m<sup>2</sup></li> <li>Permanent structures average coverage: 30%</li> <li>Combined average extension size: 39m<sup>2</sup></li> <li>Combined average area: 70m<sup>2</sup></li> <li>Combined average coverage: 35%</li> <li>Combined average occupational density: 19m<sup>2</sup>/person</li> </ul>	
HOW HAS THE UNIT	<ul> <li>roof structures either centrally or squeezed in next to existing shacks.</li> <li>Most had no reasons for the placing of their shacks, but the owner that had constructed the house reflected that the location of his house was the ideal position.</li> </ul>	<ul> <li>SHAPE AND CONFIGURATION</li> <li>Shape: Rectangular shapes dominate the additions made. Some have been arranged along side one another whilst others have been arranged in and "L' shape.</li> <li>Average dimensions: 4m × 6m. Average dimensions of temporary structures: 3.5m × 5m. Average dimensions of permanent structures: 5.4m × 8m.</li> </ul>	<ul> <li>SHAPE AND CONFIGURATION         <ul> <li>Shape: Shacks built take a rectangular shape. In household A the shacks have been arranged to form an 'L' shape. Houses are rectangular in shape with an 'L' shaped garage.</li> <li>Average dimensions of temporary structures: 3.3m × 5.6m. Average dimensions of permanent structures: 5.7m × 8m.</li> </ul> </li> <li>PLACING OF BUILDINGS</li> </ul>	
3. НОМ		<ul> <li>PLACING OF BUILDINGS</li> <li>Shacks have been placed at the back of the erven. In two cases, the shacks border the side boundary as well.</li> <li>The incomplete houses (roof structures) have mostly been placed in a central position on the erven where the longer side lies parallel to the road frontage. The other two roof structures have been placed with the shorter side parallel to the road frontage. These structures have been placed toward the sides of the erven.</li> <li>Most have no reason for the placing of their shacks except for one household (A). The reason behind placing the shacks along the boundary of the erf was to ensure an easy transition into the future house without disrupting or destroying the present accommodation.</li> </ul>	<ul> <li>All shacks have been placed at the back of the erven and the houses in a central position with the longer side lying parallel to the road frontage.</li> <li>Where houses have been placed with the shorter side parallel to the road frontage, they have been placed along the side boundaries and closer to the road frontage.</li> <li>None of the household members had explanations for the positioning of their structures.</li> </ul>	
4. HOW IS SPACE WITHIN	<ul> <li>An average of three bedrooms per household and a total of 15.</li> <li>Each household has at least one kitchen.</li> <li>Two households have a dining room and one a lounge.</li> <li>One household has a spaza shop and the other a bathroom.</li> <li>Each household makes use of the toilet provided by government. One household also has an indoor toilet.</li> <li>In most cases the reason for expanding has been the need for more space for their children</li> </ul>	<ul> <li>There is an average of 2.5 bedrooms per household and a total of 13.</li> <li>Each household has a kitchen and make use of the toilet provided by government.</li> <li>Two households have dining rooms and one has a lounge.</li> <li>Most reason that space is needed for their children or family and this stimulates extensions. The affordability of others limited the additions made.</li> </ul>	<ul> <li>In total, there are 14 bedrooms across all households. An average of three per household.</li> <li>Each household has akitchen and a lounge.</li> <li>One household has a dining room.</li> <li>Nine toilets exist. All households have indoor toilets in combination with the toilet provided by government except for household A.</li> <li>At least one bathroom is present in each household.</li> <li>The use of space in each case was suited to the needs of the families.</li> </ul>	
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## COMPARATIVE ANALYSIS OF TYPOLOGIES WITHIN EXTENSION TEN

	TYPOLOGY 1	TYPOLOGY 2	TYPOLOGY 3
5. HOW IS THE PROPERTY	• Three households have gardens.	<ul> <li>Three households have gardens in front of their homes.</li> <li>One household has a vegetable garden at the back of the erf and household A makes provision for the parking of a vehicle at the front.</li> <li>Three households have clotheslines that connected temporary structures together. These clotheslines are found at the back of the erven.</li> <li>Tents are also erected either for shelter or as a carport.</li> </ul> <b>RELATION TO THE STREET:</b> Street Boundary Definition <ul> <li>An attempt is made by four households to fence off their yards from</li> </ul>	<ul> <li>Three households have gardens placed at the front of the yard.</li> <li>Each household makes provision for the parking of cars. This is mostly accommodated at the side.</li> <li>Services and commercial activity is conducted within two separate households.</li> <li>Tents have been erected for socialising space.</li> <li>Many storage facilities are present (three households)</li> <li>Clotheslines have been erected in three erven.</li> <li>RELATION TO THE STREET:</li> <li>Street Boundary Definition</li> <li>Three households have attempted to fence of their properties.</li> </ul>
6. PUBLIC/PRIVATE INTERFACE	<ul> <li>Only two households have erected fences in front of their homes. Others have either placed stones defining the front boundary or not erected anything up front. This allows for public space to invade the space of the erven.</li> <li>PRIVACY:</li> <li>Side and Back Boundaries <ul> <li>Transparent wire fencing has been used in all cases. This is a very poor attempt at creating private space.</li> <li>In some cases trees have been used to re-inforce these boundaries.</li> <li>There is only one case where privacy is created.</li> </ul> </li> <li>Placing of units <ul> <li>Some shacks have been placed very close to the shacks, thereby creating some semi-private space between the structures.</li> <li>Some shacks have been placed along boundary lines to strengthen the boundaries.</li> </ul> </li> <li>Placing of the front door <ul> <li>All shacks have placed their doors to face the roof structure.</li> <li>In some cases the roof structure acts as a buffer from the street.</li> <li>Household C has a door facing the street and one facing the back yard.</li> </ul> </li> </ul>	<ul> <li>An attempt is made by four households to fence off their yards from the public with the use of wire fencing. This does not assist in creating private space.</li> <li>Placing of the front door         <ul> <li>All temporary structures have placed their doors to face the roof structures. In the absence of the roof structures, the need for privacy is still evident, i.e. doors are placed to the side in most cases.</li> <li>An element of security is evident.</li> </ul> </li> <li>PRIVACY:         <ul> <li>Side and Back Boundaries</li> <li>Transparent wire fencing has been used around all erven except household D (no fencing).</li> <li>This doesn't help in the creation of privacy. In some cases, trees have been used to strengthen the element of a border and the need for privacy. It hasn't been very successful in the creation of privacy.</li> </ul> </li> <li>Placing of units         <ul> <li>The placing of the roof structures close to the temporary structures have enabled some degree of privacy to transpire.</li> </ul> </li> </ul>	<ul> <li>Three households have attempted to fence of their properties and have used transparent wire fencing. It does not help to create private space.</li> <li>The other two households have decorated the entrances with bricks and stones.</li> <li>Placing of the front door <ul> <li>Three out of five households have their doors facing the street while the others have their doors at the sides. However, each household has back door. Therefore, interaction with the public is sought as well as privacy.</li> <li>However, two out of the three households could find this beneficial because of the service and commercial activity that transpires within the households. Interaction with the public with lure more business to their establishments.</li> </ul> </li> <li>PRIVACY: <ul> <li>Side and Back Boundaries</li> <li>Transparent wire fencing has been used again in all cases except household C. It does not successfully help to create privacy.</li> <li>The household shere present an interesting dynamic, i.e. although privacy is created at the back of the erf, from the public on the street and some neighbours, it is semi-private from other neighbours.</li> </ul> </li> <li>Placing of units <ul> <li>The houses have been placed close to the shacks. The arrangement of the roof structure and shack in household A helps to facilitate privacy between the units.</li> <li>In most cases some form of privacy is created between the temporary structures and the houses.</li> <li>In most cases, the placing of the structures, trees and fencing have assisted in keeping the prohe privacy is created between the temporary structures and the houses.</li> </ul> </li> </ul>

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	TYPOLOGY 1	TYPOLOGY 2	TYPOLOGY 3
	AFFORDABILITY	AFFORDABILITY	AFFORDABILITY
	<ul> <li>Family structure: A single, nuclear family is typical within this area with just one woman-headed household.</li> <li>Family sizes: Family sizes range between 5 and 6, which is quite consistent. Household sizes tend to be much larger because of the presence of tenants in some households (range between 5 and 9). Households A and B have tenants.</li> <li>Sources of income: On average each household has two sources of income. These sources can be accounted for by entrepreneurial/informal activity (mostly), rent, part-time employment and full-time employment. The family within household A is completely supported by rental money. Affordability of this family will be restricted as a result. The ability of these families to make additions is limited to a certain degree considering the amount of people that have to be supported.</li> <li>Expenses: These families have numerous expenses (9). Combined with the large family sizes and the limited income sources, the ability of have families are further restricted.</li> <li>Savings: The ability of households to save is evidence enough of their inability to make good quality additions. Only one household B would appear to be in the most favourable situation with five family members, fewer expenses and three sources of income. The next household's ability is restricted by many factors irrespective of its ability to save.</li> </ul>	<ul> <li>Family structure: All families are single and nuclear. Just one has extended family members living with as well.</li> <li>Family sizes: Tend to range between 4 and 9 with an average of 7. The range of family sizes is quite large.</li> <li>Sources of income: Each household has an average income source of two, ranging from 1 to 4. One household survives on the pension received and another on occasional part-time employment.</li> <li>Expenses: On average each household has 8 expenses. They range between 7 and 11 expenses.</li> <li>Savings: None of the households are able to save.</li> <li>Conclusion</li> <li>The affordability of these households is therefore low. The income sources are few, family sizes are large in comparison to the number of income sources available and expenses are high.</li> <li>The commonalities between the households that can allow other factors to be isolated for comparison are the expenses made, i.e. they are more or less similar. Income sources are also similar throughout except for household E (4 sources). This places household E in a better position to make additions irrespective of the large family size in order to determine the affordability and ability of households to make additions.</li> <li>Household A (has part-time employment).</li> <li>Household C also has one part-time income sources to be spread over a larger number of people. The affordability to make extensions would therefore be lower.</li> <li>Household S B and D have income sources from pension and occasional part-time employment.</li> </ul>	<ul> <li>Family structure: All families are single and nuclear exceore woman-headed family.</li> <li>Family sizes: tend to be small (average size of 4), ranging to 6.</li> <li>Sources of income: Each family has one source of inexcluding household D (2 sources).</li> <li>Expenses: On average each household has eleven expenses made.</li> <li>Savings: Three households are able to save.</li> <li>Conclusion</li> <li>The affordability of households to expand is reasonable considering family sizes are average and are supported by one source of income.</li> <li>Households A to D have the same number of expenses and similar family (between 3 and 4). Household E has 6 family members. Households A and E have a single source of income (either entrepreneurial/informal, fu employment or part-time employment), whilst household A to C woul the same advantages and disadvantages and would therefore produce products. Household D would appear to be at the greatest advantage, small family size and two sources of income. Household E seems to be to produce the least amount of addition or of poorer quality because larger family size.</li> </ul>
	<ul> <li>PRODUCT</li> <li>Number of additions: In total ten additions have been made. Household B had made three additions followed by households</li> </ul>	<ul> <li>PRODUCT</li> <li>Number of additions: In total 14 additions have been made (average of 3 each). Households A, B, C, and E had made three additions each and</li> </ul>	PRODUCT     Number of additions: In total eleven additions have been     Households A, B, D and E have produced two addition:
	<ul> <li>A, C and D with two additions each and household E with one addition. Household B had been the most successful in building many additions, which reinforces the statement made above.</li> <li>Time: All households had arrived around the same time (1996) except for two households (C and E). Household C had arrived in 1997 and household E in 1995. This shows that time was not a factor in terms of consolidation in this typology, i.e. arriving in</li> </ul>	<ul> <li>household D had made two.</li> <li>Time: Households had arrived between 1992 and 1996. One household couldn't provide the information necessary to determine the time of arrival, but the others arrived around the same time except for household B (1992). The time of arrival has had an effect on the quality of house produced, i.e. arriving in 1992 has allowed this household to build up the roof structure with face bricks. In</li> </ul>	<ul> <li>temporary structure and one permanent structure). Housely however, managed to produce one temporary structure and permanent structures.</li> <li>Time: All households had arrived around the same time (be 1996 and 1997). It is unknown when household A had arrived it is also estimated to have arrived around the same time level of consolidation in each household is more or less the</li> </ul>
CONCLUSION	1995 would imply that this household would have either made more additions or consolidated to a greater extent than the others considering being there for a longer period. The total opposite holds true. Household E is the least consolidated and has produced the least amount of additions. Household C had arrived in 1997 (more or less a year later than the majority), which would imply the least consolidated and the least amount	<ul> <li>comparison to the other households structures, this structure is of a higher quality. All the other households have built up the roof structure as well. The quality of structures appears to be similar.</li> <li>Type of structures: Temporary and permanent structures have been built. On average, each household has managed to build two initial temporary structures and one final permanent structure.</li> <li>Level of formalisation: Each household has built a permanent</li> </ul>	<ul> <li>except for household C that managed to construct an ac permanent structure. However, household C had arrived the year as household B. Therefore, time of arrival does not pr be a factor affecting the level of consolidation on its own. with additional factors has played a role.</li> <li>Type of structures: Both temporary and permanent structures been built.</li> </ul>
	<ul> <li>of additions. Instead, this household is the most consolidated (permanent structure) with the average number of additions made.</li> <li>Type of structures: All structures produced were temporary structures except for one produced by household C (a house made of bricks). 90% was therefore temporary structures.</li> <li>Level of formalisation: The level of formalisation within this</li> </ul>	<ul> <li>structure. The level of formalisation is therefore high. The households have the ability to extend.</li> <li>Size of additions: The average size of additions (temporary and permanent combined) is 27m<sup>2</sup>. Temporary structures range from 9m<sup>2</sup> to 24m<sup>2</sup> with an average of 17m<sup>2</sup>, whilst permanent structures average 46m<sup>2</sup> (range between 12m<sup>2</sup> and 54m<sup>2</sup>). The difference between</li> </ul>	<ul> <li>Level of formalisation: Each household had initially b temporary structure followed by a permanent stru Household C continued to build another permanent stru. There are therefore, five temporary structures an permanent structures built, 55% of the structures produced permanent structures. Households have managed to m</li> </ul>

TYPOLOGY 1	TYPOLOGY 2	TYPOLOGY 3
<ul> <li>Size of additions: Additions have an average size of 21m<sup>2</sup>, ranging from 11m<sup>2</sup> to 65m<sup>2</sup>. In the absence of including the permanent structure in the calculation, the average size of additions would be 16m<sup>2</sup>. The size of the additions has been influenced by the large family sizes, limited income sources, numerous expenses and the inability to save. The levels of affordability have had an impact on the size of structures produced.</li> <li>Configuration: Average dimensions appear to be 3.6m x 5.2m.</li> <li>Area of additions: On average the total area of additions within each erven is 33m<sup>2</sup> and ranges between 25m<sup>2</sup> and 65m<sup>2</sup>. Considering the number of people that live within this space, this is a small area.</li> <li>Occupational density: On average each person has 6m<sup>2</sup> to himself or herself.</li> <li>Coverage: The coverage of these structures on their erven range from 12% to 26% with an average of 17%. This leaves a large amount of space available for other activities.</li> <li>Shape: All structures are rectangular except for the house built (appears 'trellised').</li> <li>Arrangement of structures: In general temporary structures have been placed centrally on the erven with the longer side parallel to the street or along the side boundary with the shorter side parallel to the street. The placing of the eroof structures.</li> <li>Type of employment: The household that has managed to build a house has been supported by three sources of income, which include a part-time job, full-time job and entrepreneurial/informal activity mostly with one part-time employment. The type of employment in this case appears to have influenced the ability of these households to consolidate.</li> </ul>	<ul> <li>structures are larger than temporary structures.</li> <li>Area of additions: Temporary structures have an average a deha "(anging from 17m<sup>4</sup> to 48m<sup>3</sup>), whilst permanent structures have an average of 46m<sup>3</sup> (anging from 12m<sup>4</sup> to 54m<sup>3</sup>).</li> <li>Occupational density: In general each person has 12m<sup>3</sup> to himself or herself.</li> <li>Coverage: On average, the temporary structures cover approximately 16% and permanent structures cover 23% leading to a total average of 38. This leaves space open for other activities.</li> <li>Shape: All structures appear rectangulor.</li> <li>Arrangement of structures: Temporary structures have been placed to the back of the erven with the roof structures either centrally positioned or placed along the side boundary. The temporary structures have been placed in L' shapes. The roof structures have been placed in L' shapes. The roof structures have bace noriented in two ways, i.e. one with the longer side parallel to the street.</li> <li>Type of employment: The type of employment in combination with other factors have an influence on the ability of these households to consolidate, e.g. household B receives a pension but has four family members to feed and has produced the highest quality house. Household A.</li> <li>Conclusion</li> <li>Household A. Bas a part-time employment as the income source but has seven family members. The quality of the house is below that of household A.</li> <li>Household A.</li> <li>H</li></ul>	<ul> <li>Size of additions: The average size of additions (temporary and permanent combined) is 39m<sup>3</sup>, whereas the average size of temporary and permanent structures is 19m<sup>3</sup> (ranging from 20m<sup>3</sup> - 54m<sup>3</sup>) respectively. Permanent structures are much larger.</li> <li>Configuration: The average dimensions of temporary structures are 3.3m × 5.5m. The average dimensions of permanent structures are 5.7m × 8m. The vast difference is dimensions between the two can be noted.</li> <li>Area of additions: The average from 54m<sup>3</sup> - 54m<sup>3</sup>).</li> <li>Occupational density: Each person has an average area of permanent structures is 58m<sup>3</sup> (ranging from 54m<sup>3</sup> - 74m<sup>3</sup>).</li> <li>Occupational density: Each person has an average area of 19m<sup>3</sup> to hinself or herself.</li> <li>Coverage: temporary structures amount for 10% and permanent structures of 30%. In total, they still don't cover more than 50% of the erven.</li> <li>Shape: All structures appear rectangular. Some have been placed in front of them either with the shorter or longer side parallel to the street. Where the roof structures have been placed in front of them either with the shorter or longer side parallel to the street. Where the roof structures have been placed long the side boundary and closer to the street. They have been placed long the side boundary and closer to the street.</li> <li>Type of employment: The type of employment seems not to have an effect on the abilities of families to consolidated.</li> <li>Mawershold C and A Produced the most additions and seem to have consolidated to a greater degree than the others. The small family sizes are the same. The only distinguishing factor would possibly be time. It is unknow when household A had arrived. The amount of income brought in by the entrepreneurial activity could be more in household C.</li> <li>Household B and D. These two household B is supported by a full-time job. Household B would therefore have the advantage of twice the income source compared to household</li></ul>

## COMPARATIVE ANALYSIS OF TYPOLOGIES WITHIN EXTENSION TEN

	TYPOLOGY 1	TYPOLOGY 2	TYPOLOGY 3
	<u>Household D</u> has constructed two additions. The factors that have been taken into consideration in comparison to household C, include a smaller family size, a single income source, the type of income source (entrepreneurial/informal), the time of arrival (1996) and fewer expenses. This household also lacks in the number and type of income sources. <u>Household E</u> produced one temporary structure. It has the largest amount of expenses, the same type and number of income sources as in household D, the same family size as in household C and arrived in 1995). <b>PROCESS</b>	PROCESS	PROCESS
NO	<ul> <li>Sourcing of materials: The sourcing of materials were directly related to the type of structures that were built, i.e. temporary structures required the acquisition of materials from within Mamelodi, whilst materials were sought external to Mamelodi for the construction of permanent materials.</li> <li>Cost: On average costs ranged between R650 and R2 400. Resources were minimal and affordability within this typology is low, therefore not much could be afforded.</li> <li>Funding: Savings was the main source of funding.</li> <li>Builders: Three types of builders were involved. The most used was private contractors, and in some cases, material suppliers were employed. In some cases, owners had built their own additions.</li> <li>Time: The time lapse between additions ranged from one to four years. One household took four years to build another addition. The others had taken between one and two years to make additions. This indicates in general that people had saved for a little while and had built small additions.</li> </ul>	<ul> <li>Sourcing of materials: In most cases, permanent materials were sought from outside Mamelodi and temporary structures were acquired from within. There are, however, a few people that have sourced temporary materials outside of Mamelodi and permanent materials were sought from within.</li> <li>Cost: The cost of temporary structures range between R1 000 to R3 040. The cost of temporary structures range between R330 and R2 000. There is not a big difference between the money spent on additions of temporary and permanent nature.</li> <li>Funding: Savings was the most common used source of funding. In one particular case, retirement money was used.</li> <li>Builders: 95% of the time owners used their skills to build their additions. The rest of the time, private contractors were hired.</li> <li>Time: The time between additions. One household took between a few months to seven years. On average, each household took seven years. This implies that time was spent saving sufficient money to build the quality permanent structure required.</li> </ul>	<ul> <li>Sourcing of materials: The purchasing of temporary materia was done from within Mamelodi and permanent structures froo outside Mamelodi.</li> <li>Cost: The cost of permanent structures ranged from R1 000 to R 000 whilst temporary structures cost between R500 and R900.</li> <li>Funding: Majority of the time, savings had been used. Only or case involved the use of a loan.</li> <li>Builders: The builders of the permanent structures involve private contractors. Temporary structures were built by eithe the material suppliers or the owners.</li> <li>Time: The time lapse between additions had been between one ar four years. One or two households had taken three to four year to build the permanent structures. Others had taken two year Time was spent saving for the construction of the permanent structures.</li> </ul>
.S.	USE OF SPACE	USE OF SPACE	USE OF SPACE
CONCLUSION	<ul> <li>Within structures</li> <li>Households A, D and E display characteristics of households that could only afford the necessary uses (Bedrooms, kitchens, and outdoor toilets).</li> <li>Household B and C have added on a few more uses (luxuries). Household B displays only one additional use (dining room). Household C has a dining room, a lounge, a spaza shop, and an indoor bathroom and toilet. Household C is the household with the permanent structure.</li> <li>As was indicated earlier households B and C appear to be the two most successful households. As such, the uses within their structures also differ from the others. With a movement toward consolidation, the uses become more complex.</li> <li>Within erven</li> <li>Gardens: Only three households have gardens, which were placed at the front. These were flower gardens.</li> <li>Parking: Two households make provision for the parking of cars. The car parked in household C belongs to the owner of the house and is therefore a luxury.</li> <li>Tenants: One of the survival strategies employed in this typology is rental activity. Two households rent out structures as a source of income. Such activities are found at the back and along the side boundary.</li> <li>Other: Another survival strategy is commercial activity. Household C runs a spaza shop from the one room provided under the roof structure and household E sell vegetables from a vegetable stall built along the street. Such activity generally occurs at the front of the property.</li> </ul>	<ul> <li>Within structures</li> <li>The uses extend beyond the basics of a toilet, bedrooms and kitchens. Some households have the luxury of dining rooms and lounges.</li> <li>Within erven</li> <li>Gardens: Three households have gardens at the front of their erven. One household has a vegetable garden at the back of the erven. This is one of the survival strategies employed in this typology.</li> <li>Parking: Only one household makes provision for the parking of a vehicle owned by the household (luxury).</li> <li>Tenants: None of the household shase trants.</li> <li>Other: Households have clotheslines erected on the erven, sometimes attached from one structure to the next. Tents have also been erected to create a social space and a shelter/carport. Storage of building materials takes place on these erven wherever space would allow it.</li> </ul>	<ul> <li>Within structures</li> <li>The uses within these households go beyond the basic kitcher bedroom and outside toilet situation. These households have the luxuries of lounges, indoor bathrooms and toilets, and dinin rooms. The increase in space for the household has also resulted in the increased diversity in the use of space.</li> <li>Within erven <ul> <li>Gardens: Three households have flower gardens at the front of the erven.</li> <li>Parking: Vehicular parking is generally accommodated at the sid of the erven by all households has tenants.</li> <li>Commercial: Two households accommodate commercial activities and provide a service from within their houses.</li> <li>Other: Tents have been erected for social space. The storage of materials takes place on the erven wherever space would allow for it. Clotheslines have been erected on many erven.</li> </ul> </li> </ul>

	TYPOLOGY 1	TYPOLOGY 2	TYPOLOGY 3
CONCLUSION	<ul> <li>PUBLIC/PRIVATE INTERFACE</li> <li>Street boundary: The lack of street boundary definition in most households indicates the openness for interaction with the street. Only two households had attempted to fence the front boundary. Transparent wire fencing was used with the planting of trees and plants and the placing of rubble.</li> <li>Side and back boundaries: The transparent wire fencing used does not assist in creating private space. Privacy has only been created in household C with the assistance of the planting of trees.</li> <li>Placing of units: The roof structures have been placed close to the temporary structures, thereby creating semi-private space between these structures. These households have privacy from the public but not from the neighbours.</li> <li>Placing of doors: Most temporary structures have placed their doors to face the roof structures, which in their absence would mean that the doors of the temporary structures for the result of wanting interaction with the public or an attempt to keep space for the construction of the future house. None of the households had indicated any reason for the placing of the structures.</li> <li>The roof structure acts as a buffer from the public now. Some structures have been placed along the side and back boundaries for extra strength.</li> </ul>	<ul> <li>PUBLIC/PRIVATE INTERFACE</li> <li>Street boundary: The transparent wire fencing used prevents any private space from being created. The street boundaries are often accompanied by gardens and trees.</li> <li>Placing of units: The roof structures have been placed very close to the temporary structures. This creates privacy from the public but neighbours can still intrude on this space created.</li> <li>Placing of doors: All temporary structures have the doors facing the roof structures. In the absence of the roof structures, some doors face the side whilst others face the street. Privacy was required.</li> <li>Side and back boundaries: The transparent wire fencing does not help in creating privacy.</li> </ul>	<ul> <li>PUBLIC/PRIVATE INTERFACE</li> <li>Street boundary: The households that have attempted fencing off their properties have used transparent wire fencing, which does not assist in creating privacy. Other households have decorated the front of their erven with stones and boulders.</li> <li>Placing of units: The placing of the structures has helped in cutting off the public from space created at the back of the erven. This space, however, is not very private from the neighbours. The roof structures have been placed close to the temporary structures, which have assisted in the creation of semi-private space.</li> <li>Placing of doors: Each household has a back and front door, so whilst interaction is encouraged to a small degree at the front privacy is also required at the back.</li> <li>Side and back boundaries: Transparent wire fencing has beer used. This has not assisted in creating private space, but the strategic placing of trees and plants has helped to a certain degree.</li> </ul>
	Patterns: 1. Shacks are placed at the back with roof structures centrally placed (longer side parallel to the street). No fence exists at the front.	Patterns: 1. Temporary structures have been placed at the back with roof structures in the centre of the erf. Gardens are placed at the entrance.	Pattern:       1. Temporary structures have been placed at the back and sides of the erven. Three sides of the erven are fenced off with the frontage either fenced or decorated with boulders and bricks. Roof structures with the shorter end parallel to the road frontage have been placed along the side boundary. Vehicular parking has been accommodated on all erven, usually at the back. Storage also takes place at the back of property.         Image: the storage also takes place at the back of property.         Image: takes of the erven are fenced off with the frontage either fenced of decorated with boulders and bricks. Storage also takes place at the back of property.         Image: takes of the erven are fenced off with the frontage either fenced of decorated with boulders and bricks. Roof structures with longer side parallel to the road frontage have been placed centrally on the erven. Vehicula parking has been accommodated on all erven, usually at the back. Storage also takes place at the back of every property.

## COMPARATIVE ANALYSIS OF TYPOLOGIES WITHIN EXTENSION TEN