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Wednesday, 15<sup>th</sup> May 2019

**Aim:** To optimise the existing workspace by improving organisation of workbenches, efficient safekeeping of tools and better storage while improving quality and aesthetics.

**Optimisation Solution Utilised for Proposal:**

**BETA Italy RSC55 Modular Workshop System**



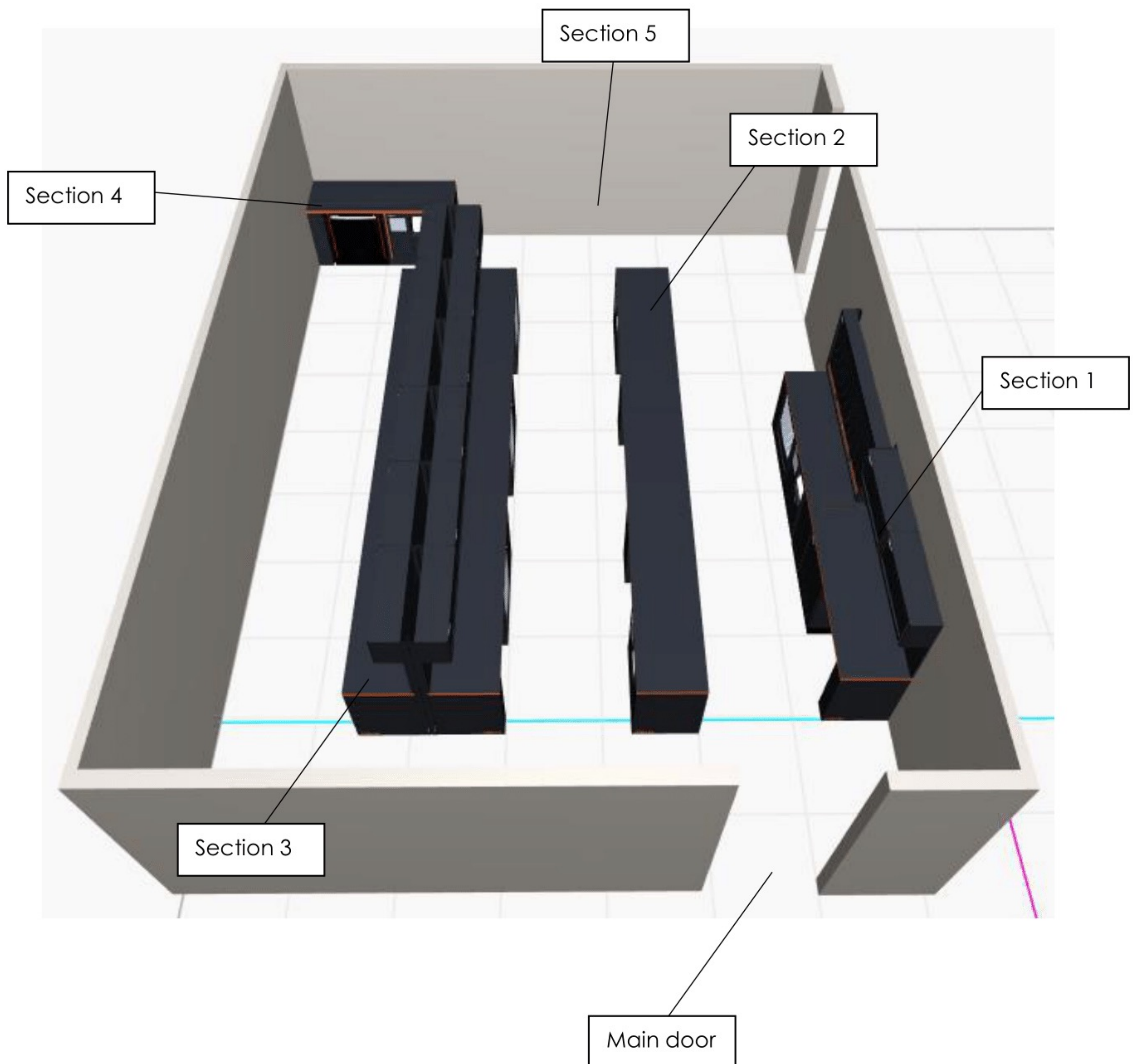
*Sample configurations to represent aesthetics*





**Proposal structure covers brief explanations of 5 sections:**

1. Workbench with perforated tool panel and tool storage.
2. Workbenches for 'production line' testing.
3. Workstations with individual tool storage.
4. Waste collection modules with flat tops.
5. Worktops for current storage cabinets.





## 1. Workbench with perforated tool panel and tool storage

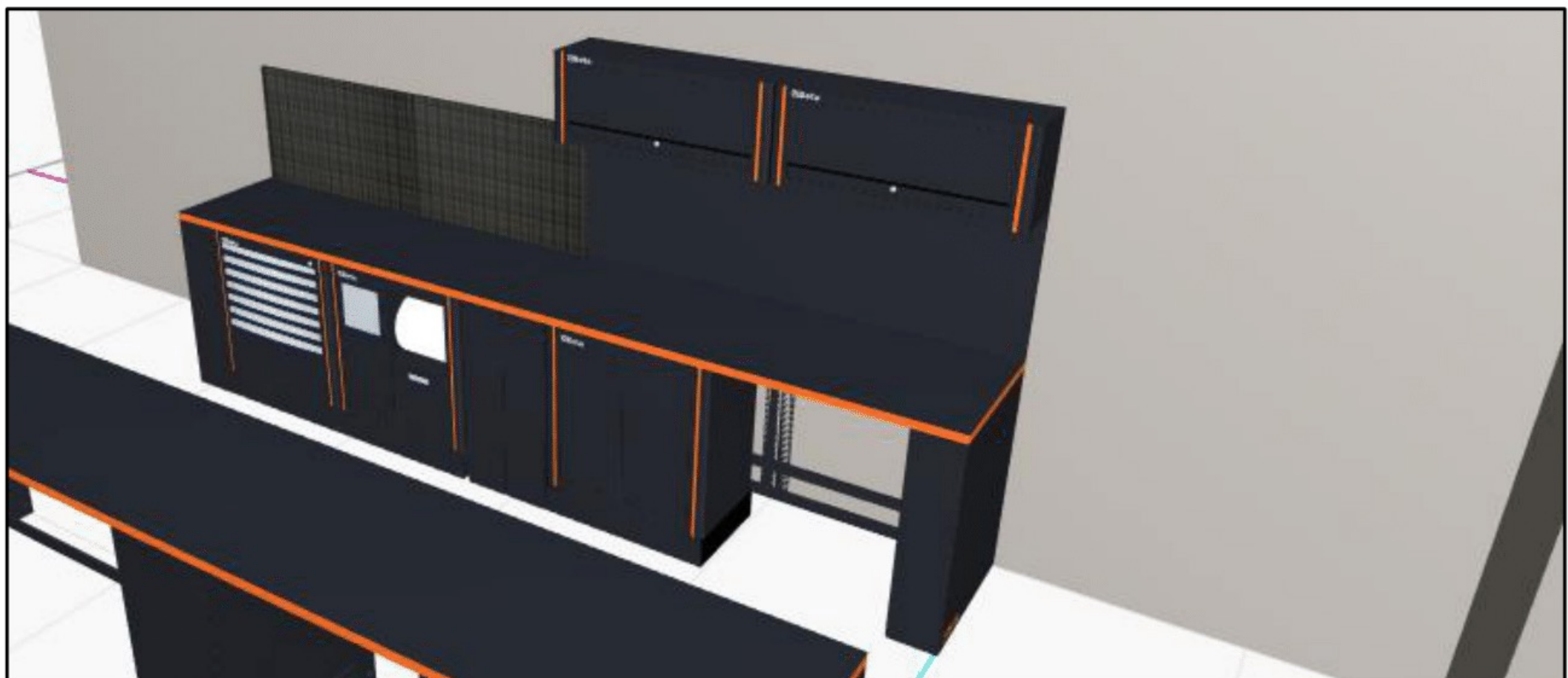
Current layout:



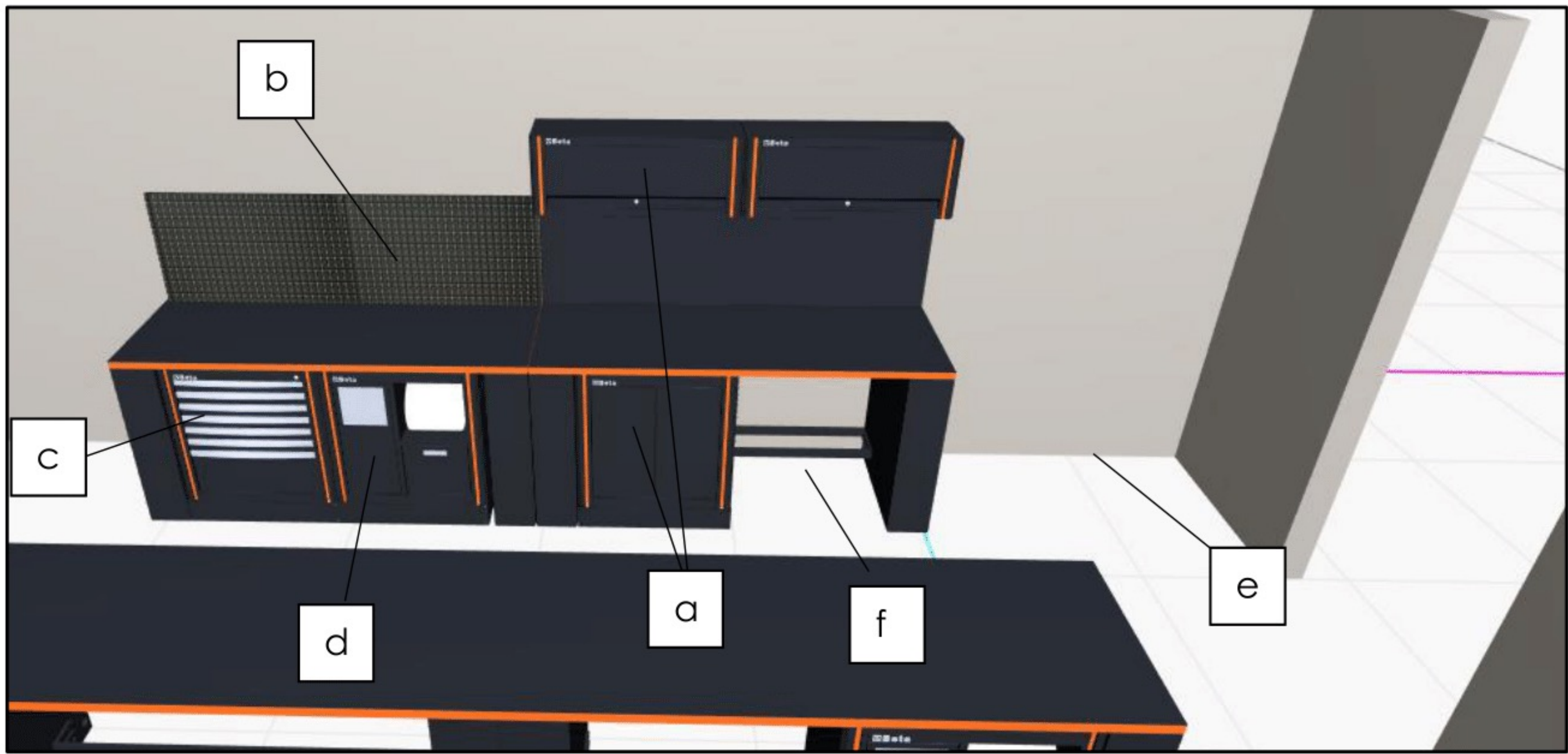
Figures shows current workbench with storage shelf and computer table connected to measuring equipment.

- Existing layout illustrates disorganised tool baskets which may result in technicians taking a longer time to look for tools.
- This decreases efficiency when tool(s) go missing and the technicians are not aware.
- Technician(s) are also at a disadvantage when disposing waste as they need to walk a distance.
- Storage shelf between the workbench and computer table's position is not optimised, minimising the work space.

Proposed layout for this area:







*Figures on the left shows proposed position and arrangement to replace existing layout*

- a. Instead of having a shelf to store items, proposed modules allow proper storage of items.
- b. Workbench with perforated tool panels enable special tools to be positioned strategically and ergonomically for ease of use.
- c. Integrated tool trolley for general tools with lock for safekeeping and reach.
- d. Built in waste bin underneath workbench for disposing waste easily and with paper towel/tissue roll holder included.
- e. 1500mm space allocated for measuring equipment on the corner.
- f. This area is purposely left empty for computer chair utilisation.





## 2. Workbenches for 'production line' testing

Current Layout:



*Figures(left) shows current layout of production line worktable*

- Current layout shows worktable is lower than 900mm as accordance to the 'International Health and Safety Guidelines'. This may risk injuring certain parts of the technician's body as they have to bend to an inappropriate position to work for long periods of time while standing up, or hunch while sitting down.
- There were no waste disposal bins around the worktable therefore technicians have to spend extra time walking to the bin.
- Operating on the production line table requires tools, technician(s) have to acquire tool(s) from other areas to come back here which is not ideal.
- Most of the storage is stored underneath the worktable and this exposes a sight when guests/clients are visiting.

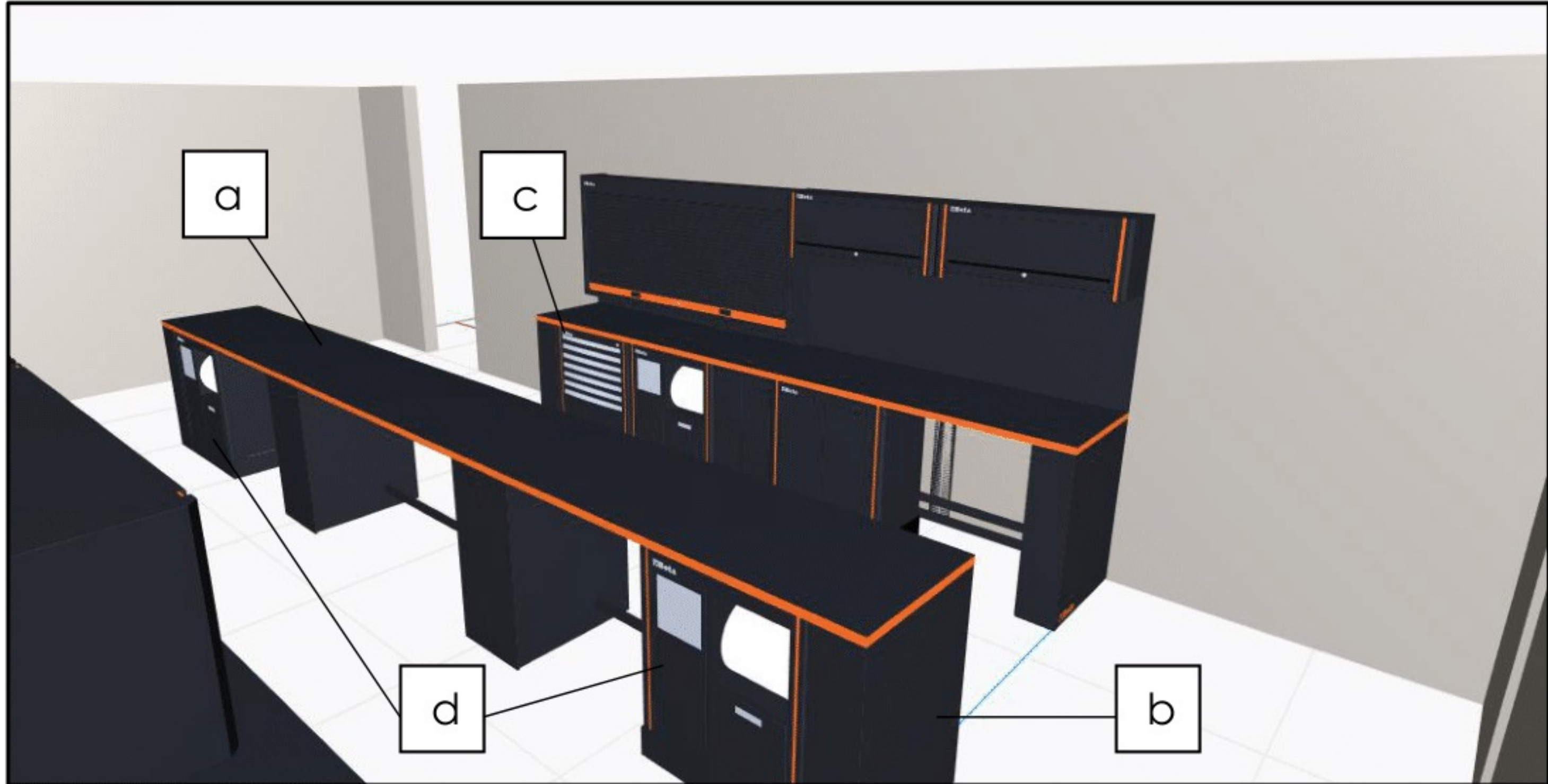
Proposed layout:



*Figures on the left shows proposed 3 2m workbenches lined together*







- a. Each workbench has a length of 2050mm. Having 3 of them equates to 6.1 meters which is equivalent to the existing layout.
- b. Workbench has a height of 980mm which is suitable for standing and spaces specially allocated for technicians to sit.
- c. Tools are reachable on the same room therefore technicians do not need to walk to different rooms to get them.
- d. Both ends of the production line has integrated waste disposal bins that comes built in with storage drawers and perforated paper roll compartment.

3. Workstations with individual tool storage

Current layout:



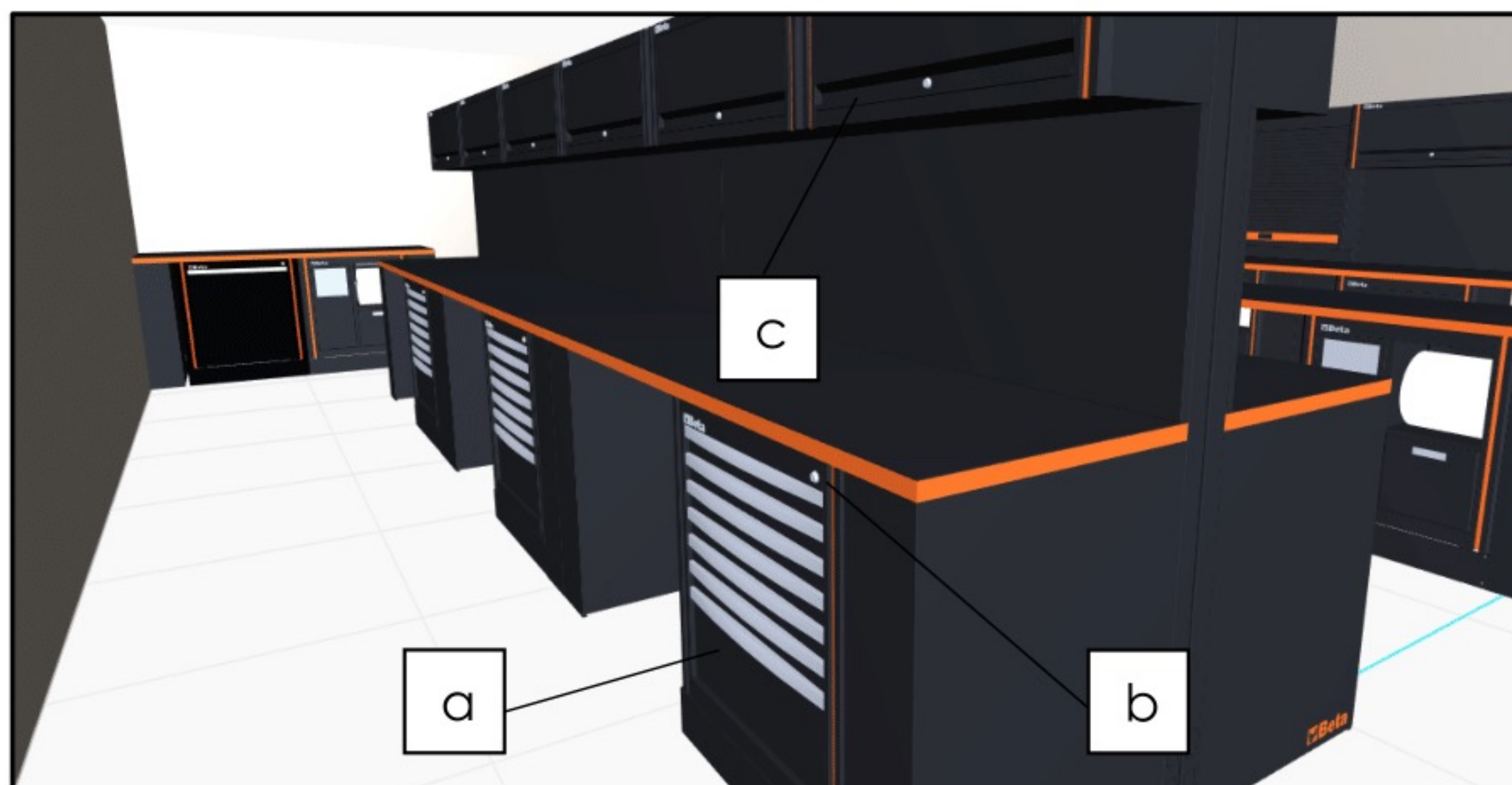


- Individual workstations that require standalone spaces to work on specific tasks is essential to have their own proper tools. Tools that are being borrowed elsewhere or having to get them in another area just decreases efficiency in a workshop.
- Storage is located underneath the table; hence it requires the operator to bend down to get the items they need.

Proposed layout:



*Figures on the left shows proposed individual workstations with tool cabinets and storage*



- Proposed layout features individual tool cabinets that allow technicians to have their own tool usage without having to compromise time.
- Safety locks are available for every tool module for the workshop manager to control technician(s) that are allowed to get the key.
- There will be 2 suspended cabinets above the workbench to store reachable items as compared to bending down. To even enhance more flexibility while using the cabinets, the doors are fitted with gas springs to make it easier to open and close.





#### 4. Waste collection modules with flat tops

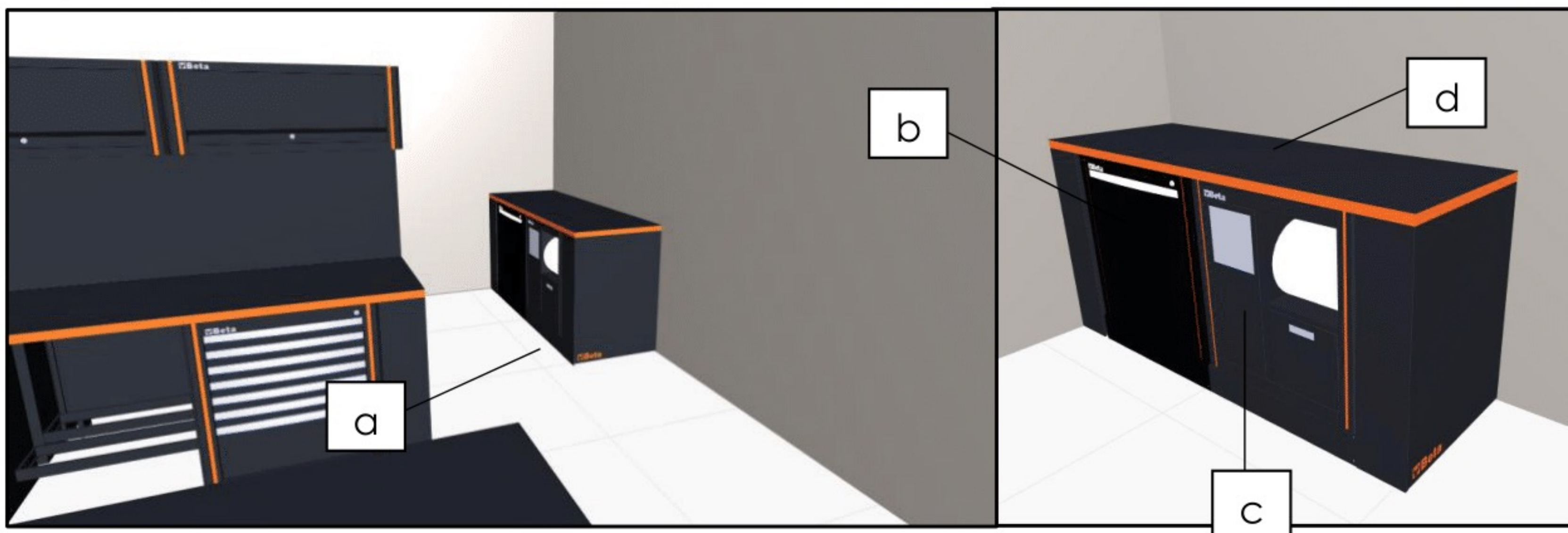
Current layout:



Figures above shows current area where waste bin and basin that is not utilised

- Current area is not being utilised and most of the tops are being used as storage.
- Basin is currently not being utilised therefore it has become unnecessary space.
- Total distance between waste bin with basin is currently taking 1900mm

Proposed layout:



- Proposed layout has a length of 2050mm to replace current area.
- Fixed module for separate waste. There will be 2 capacious pull-out interior containers.
- Built-in waste bin with perforated paper roll compartment and storage drawer.
- Top of the workbench allows space to store items.





### 5. Worktops for current storage cabinets

- Current storage cabinet near the window has a length of 900mm with 850mm width. There is also an electrical conduit that is 300mm.
- There is a total of 4 cabinets having a total length of 3600mm.
- The BETA C55B PT/2 worktops are 2050mm length and 700mm width. We suggest to have 2 worktops to fit the 3600mm length cabinets.
- The cabinets can be adjusted to have 167mm gaps to fit the worktop and would look something like this:

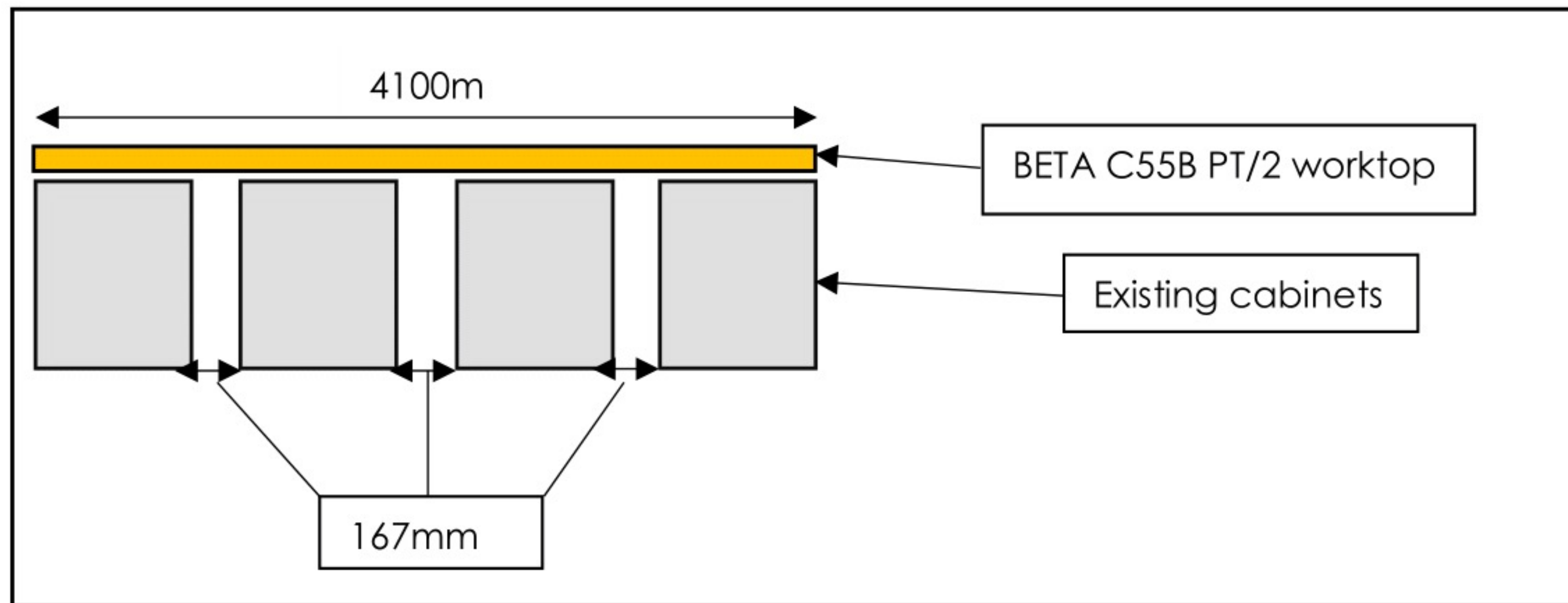


Figure shows fitment of BETA worktop with cabinets on the *side view*

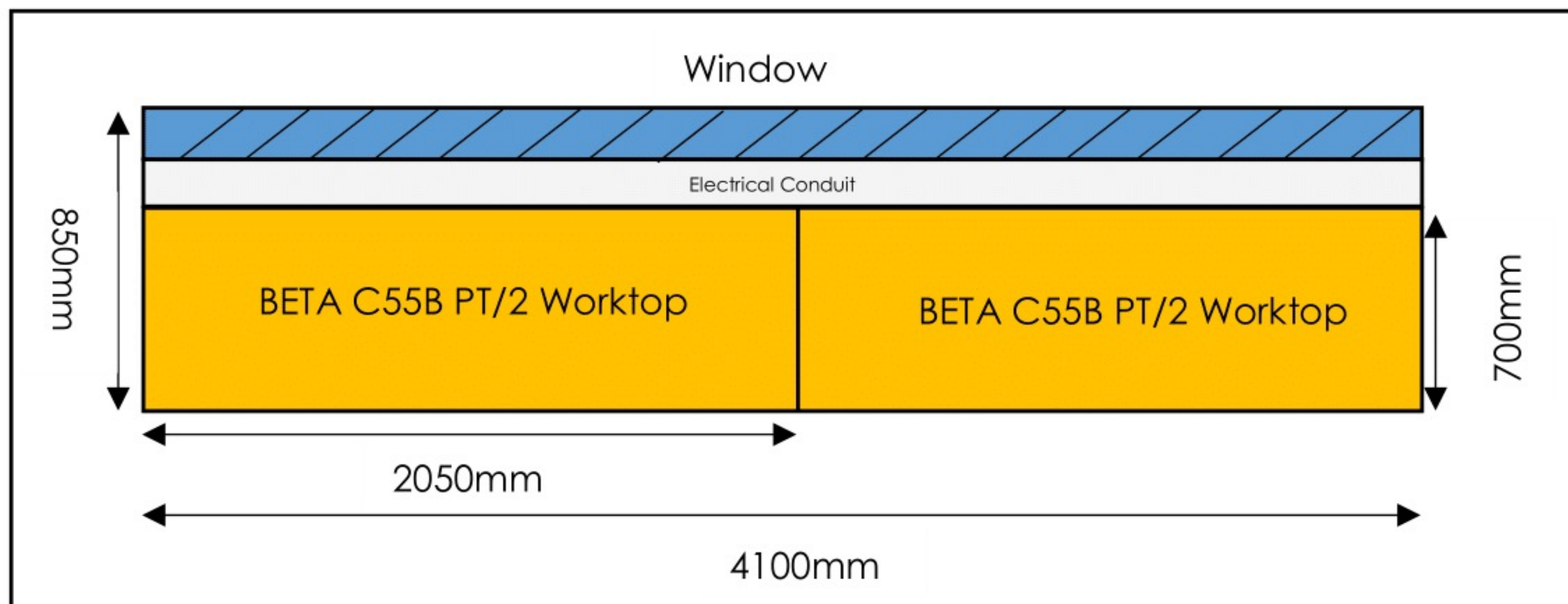


Figure shows BETA worktop facing the window on the *top view*





Pricing structure for each section:



**Section 1:**

Illustration	Part Number	Description	Quantity	Price +GST	Total (excl. GST)
	055000111	<b>C55B/2</b> 2m long workbench (grey)	2		
	055000301	<b>C55/2PM</b> Tool panel with suspended cabinets	1		
	055000205	<b>C55MA</b> Fixed 2 door module	1		
	055000203	<b>C55M7</b> Fixed module with 7 drawers	1		
	055000204	<b>C55MS</b> Fixed service module with waste bin & paper roll compartment	1		
	055000310	<b>C55/2PF</b> 2 perforated tool panels for C55/2PM	1		
				<b>Total</b>	








**Section 2:**

Illustration	Part Number	Description	Quantity	Price +GST	Total (excl. GST)
	055000111	<b>C55B/2</b> 2m long workbench (grey)	3		
	055000204	<b>C55MS</b> Fixed service module with waste bin & paper roll compartment	2		
				<b>Total</b>	




**Section 3:**

Illustration	Part Number	Description	Quantity	Price +GST	Total (excl. GST)
	055000111	<b>C55B/2</b> 2m long workbench (grey)	6		
	055000301	<b>C55/2PM</b> Tool panel with suspended cabinets	6		
	055000203	<b>C55M7</b> Fixed module with 7 drawers	6		
				<b>Total</b>	





**Section 4:**

Illustration	Part Number	Description	Quantity	Price +GST	Total (excl. GST)
	055000111	<b>C55B/2</b> 2m long workbench (grey)	1		
	055000204	<b>C55MS</b> Fixed service module with waste bin & paper roll compartment	1		
	055000208	<b>C55CS</b> Fixed module for separate waste	1		
				<b>Total</b>	

**Section 5:**

Illustration	Part Number	Description	Quantity	Price +GST	Total (excl. GST)
	055000116	<b>C55B PT/2</b> 2m long worktop (grey)	2		
	055000286	<b>C55B PT/2.8</b> 2.8m long worktop	1		
				<b>Total</b>	

**END**

