



Design Requirement

TOTO is the worlds largest toilet manufacturer wanted to get a Tablet

Controller designed for their customers, this will be paired with their

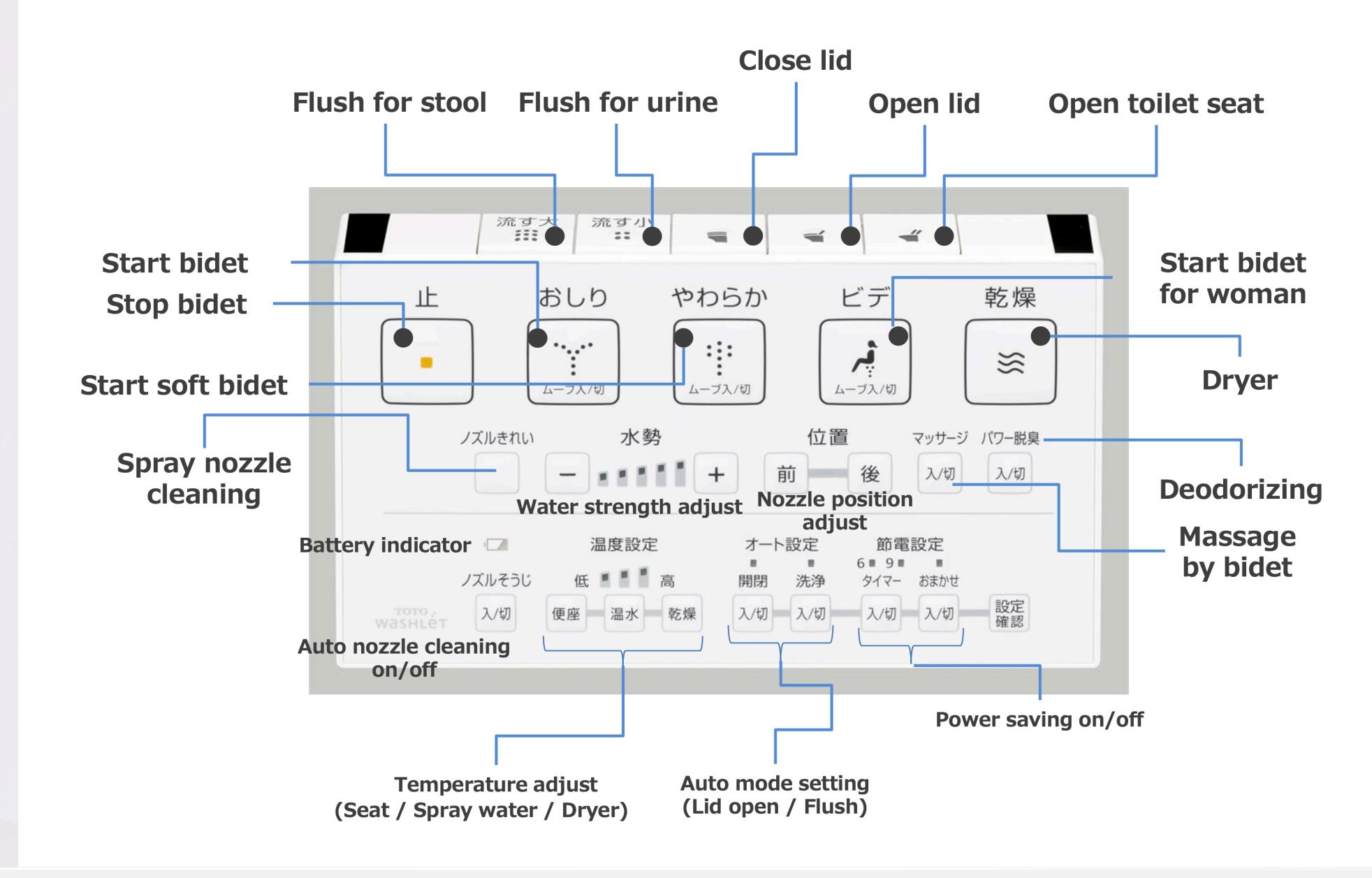
newly launched Smart Toilets.

This toilet system had a ton of capabilities,

like Heated Seats, Heated Water, Automatic Lid Opening, etc.

In addition the toilet also had the capabilities to make the customers aware about their body vitals from the stool samples collected.

TOTO was looking for a controller to ease the use of this toilet and break the tradition of using a fixed controller on the pot itself.



Testimonials from the Japaneese Audience

"The remote in the smart toilet is usually fixed on the one side of the toilet seat or on the wall"

"The icons on the remote are confusing sometimes"

"Operating a smart toilet through mobile app would be too many steps, it's better if the controls are right there. Saves time!" "I was in this hotel where curtains would open automatically in the morning."

"The bed automatically rises to wake you up. That was pretty amazing"

"Sometimes the water is too hot or the pressure is too strong. It would be good if the best temperature and pressure is detected automatically"

Design Vision

As a designer, I wanted to present TOTO with a design solution that simplifies customers everyday journey, reduce the clutter of choosing between the right buttons and inculculate a habit forming solution thats is functional to use, right after a deep sleep or even in dimlight. This application should help form Habit easily and imbibe a sense of personalisation for it's users.

For this, I will elevate the strengths of an iPad application in contratry to the fixed remote controller, following the recent design trends and adapt to a simplisitic design approach.

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Hisako's 'Toilet' Journey

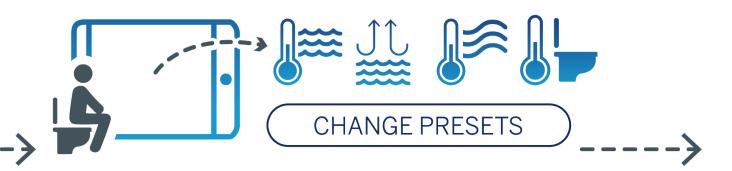
Pre-installed toilet ipad application with existing user profile.













Wakes Up! & Is in a rush.

Hisako wakes up, she has to get ready quickly and leave for work.

iPad Face Recognition

Hisako enters the washroom and the lid of the toilet lifts automatically. iPad recognizes her with face and selects her morning profile. Hisako is impressed with this technology.

iPad Makes her aware of Presets

While Hisako is using the toilet, application greets and shows her the active presets - Water Temperature, Water Strength, Dryer Temperature and Seat Temperature. She could also change them as per her preferences.

Controls Automatically Selected & can be initiated through Voice

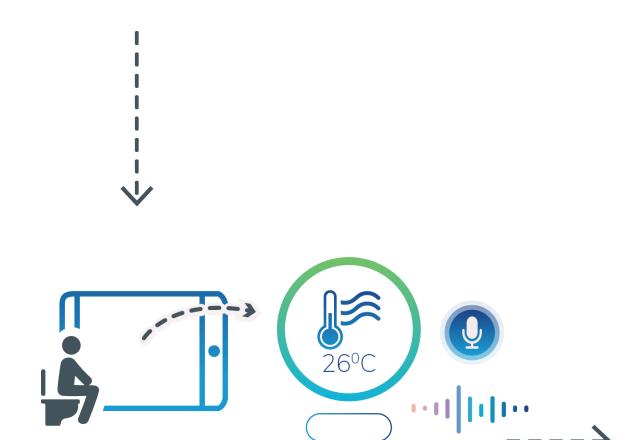
Necessary bidet controls are selectedbased on stool/urine sample. Action can be initiated either through 'Voice Command' or by simply tapping on the 'Bidet Button'







Hisako's Journey with TOTO Smart Toilet System.















Actions Run Sequentially

Once Hisako is done with both the bidets, 'Dryer' starts automatically and the same is visually represented on the application.

Health Vitals are Displayed

Application also updates Hisako with her health vitals -Weight, BMI, Glucose Level and Blood Pressure. She can also view a detailed report on the iPad or on her mobile application.

Toilet Cleans itself Automatically

When Hisako leaves the toilet, it flushes and cleans the nozzle automatically.



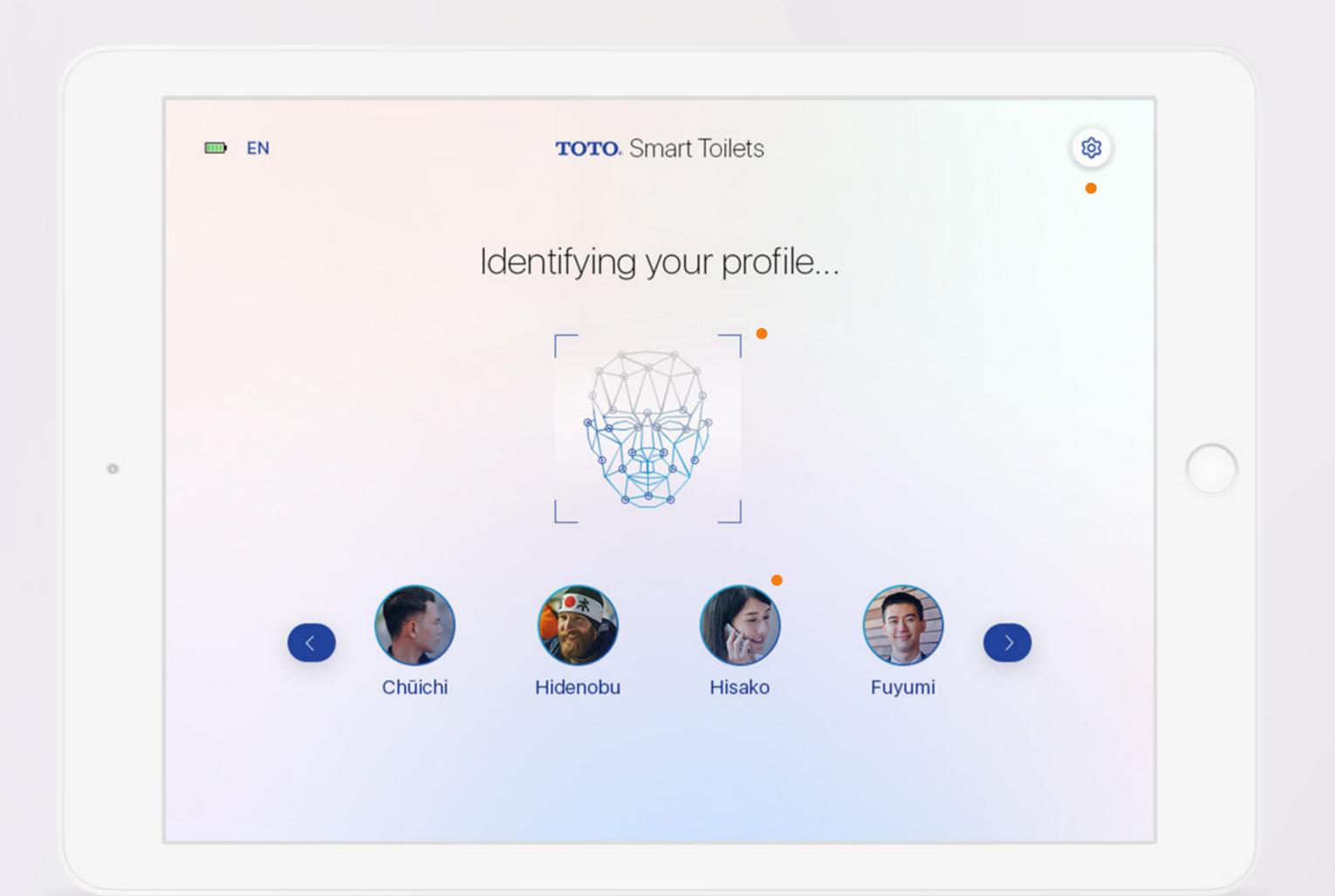
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Toilet Visuals iPad

Woman Bidet Flow - Stool and Urine



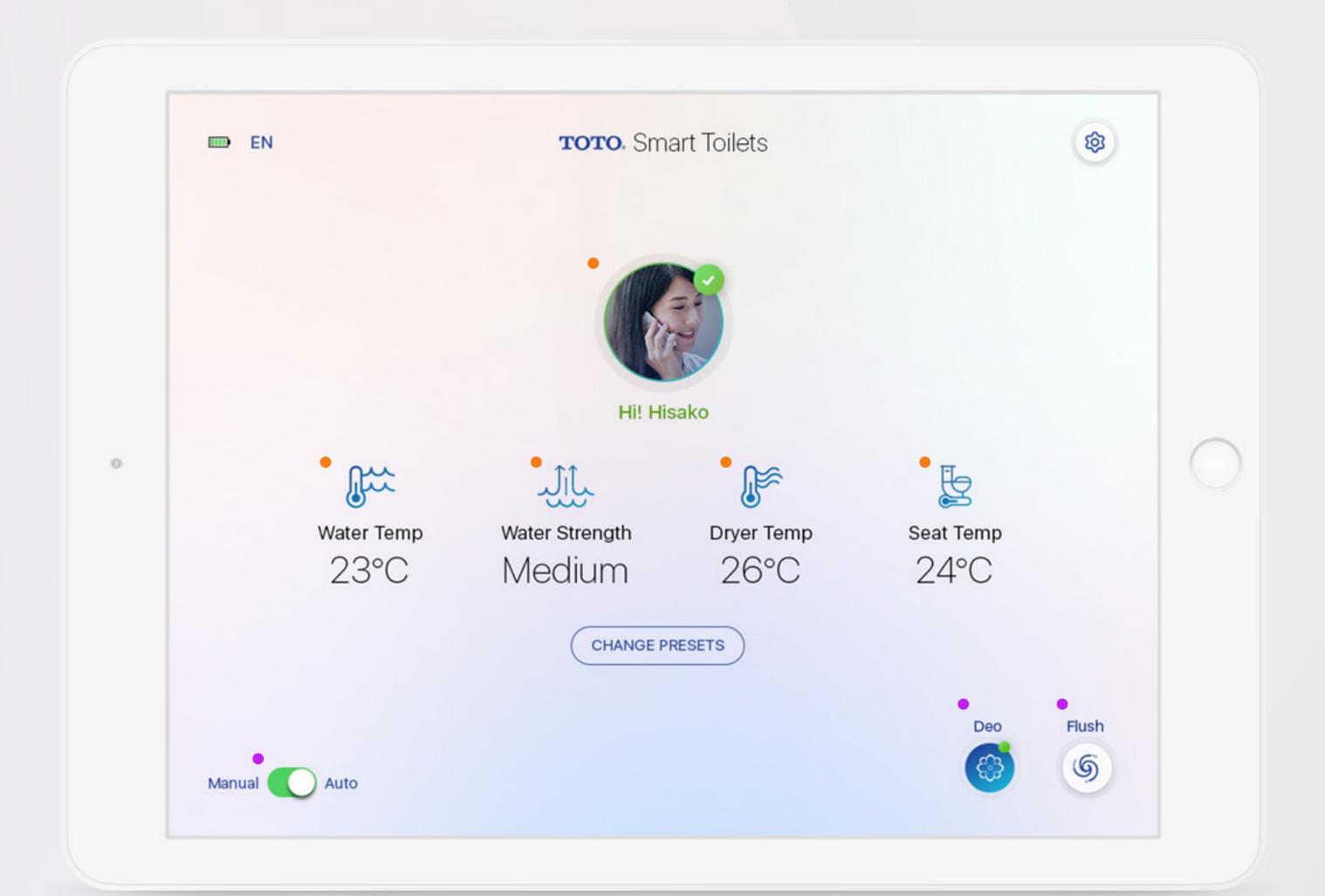
Landing Screen



- Profile Identification through face recognition.
- User can also select the profile manually.
- Connectivity Settings



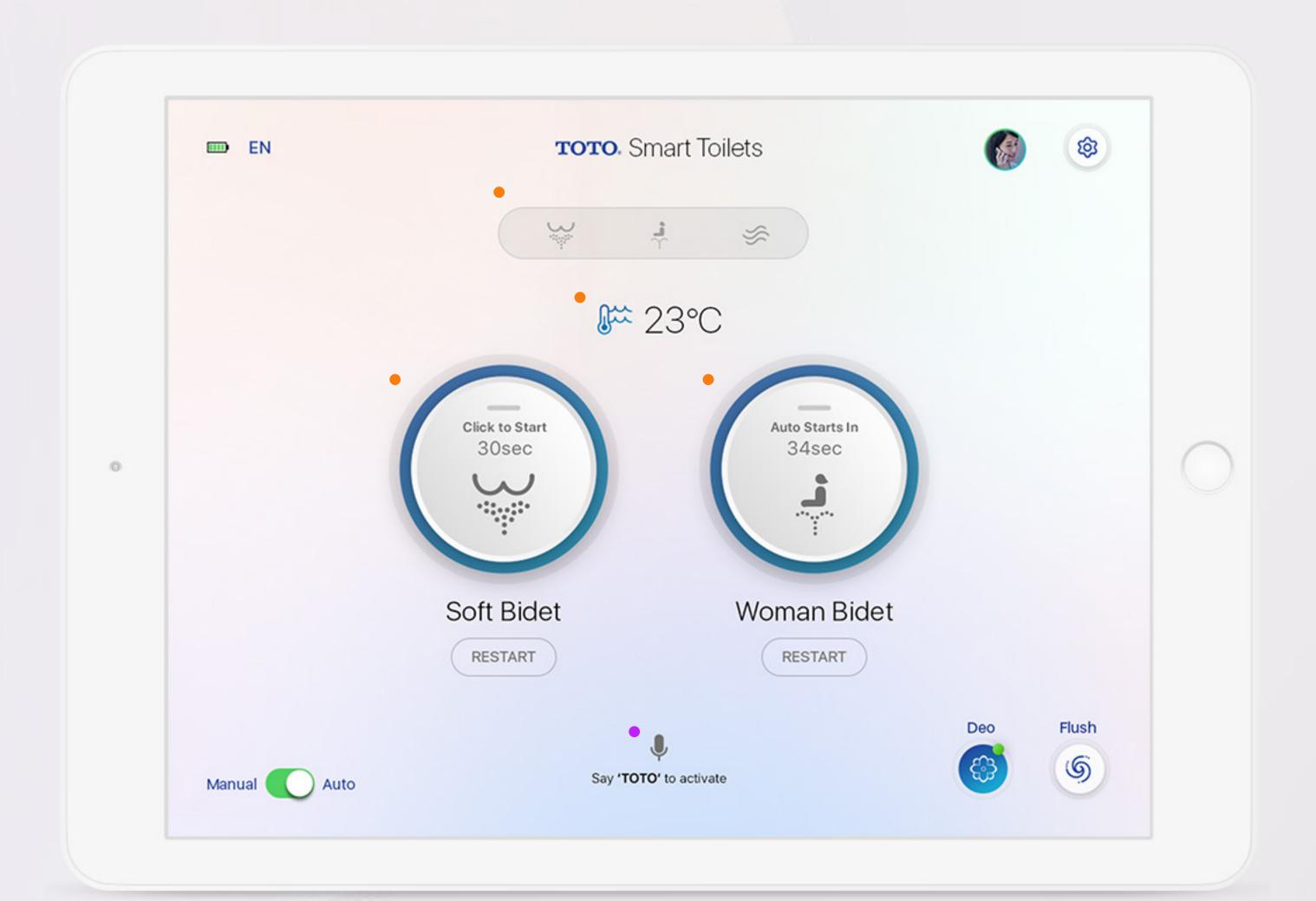
Welcome Screen



- Display identified profile and the active profile presets.
- Option to proceed with an automated experience or switch to a manual controller.
- Active button of the running deodorant.
- Button to start the flush at any point in time.



Bidet Screen (Default)



Key Features

- Display for the series of actions in the toilet journey and current status of pending/active/running action.
- Current information of the preset water temperature.
- Click to start/stop bidet controls based on the type of toilet sample identified.
- Facility to trigger voice initiated commands.

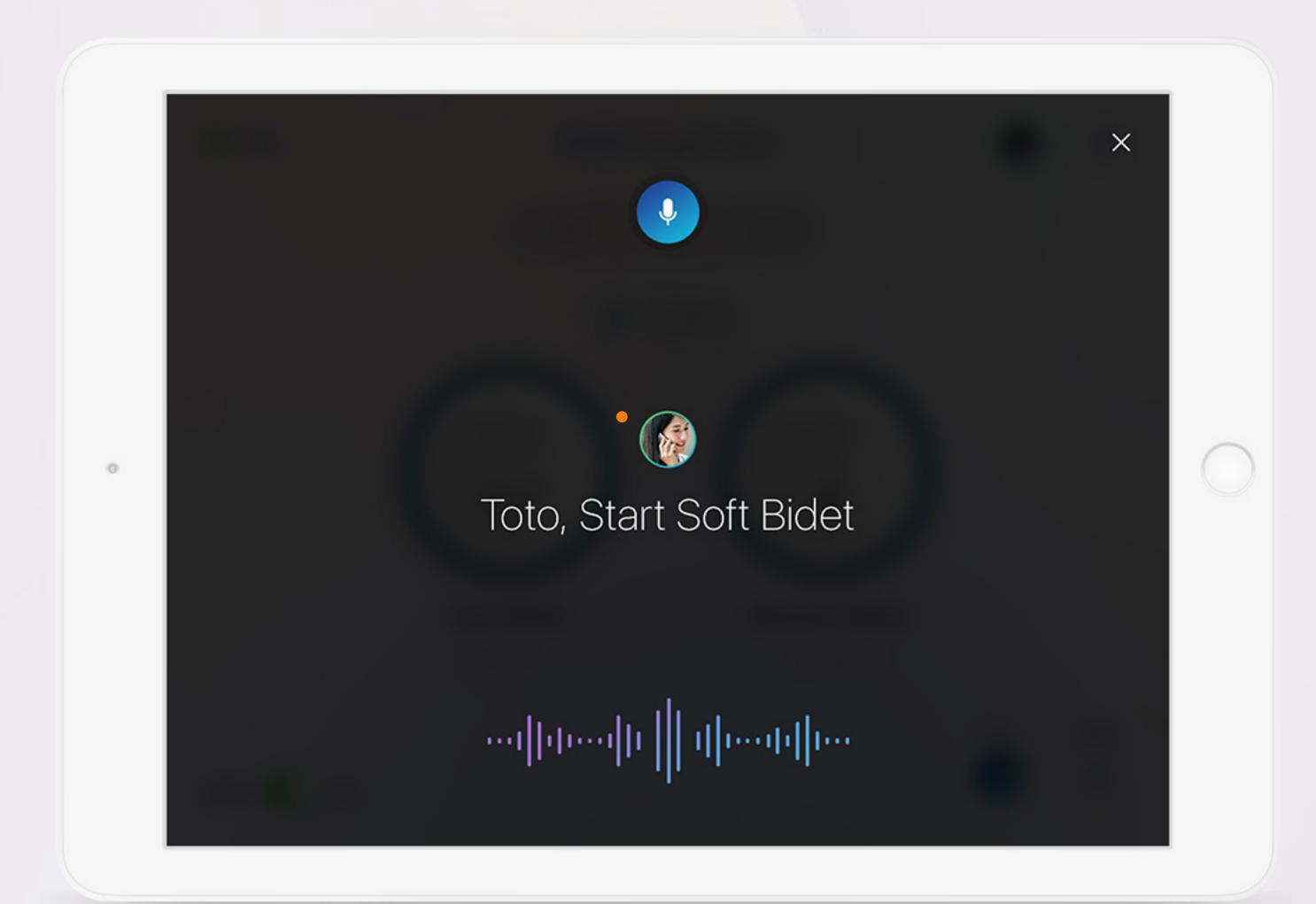
Notes

These are set of sequential predefined steps for specific durations, which the user will define at the time of profile creation/first time use.





Voice Integrated Command



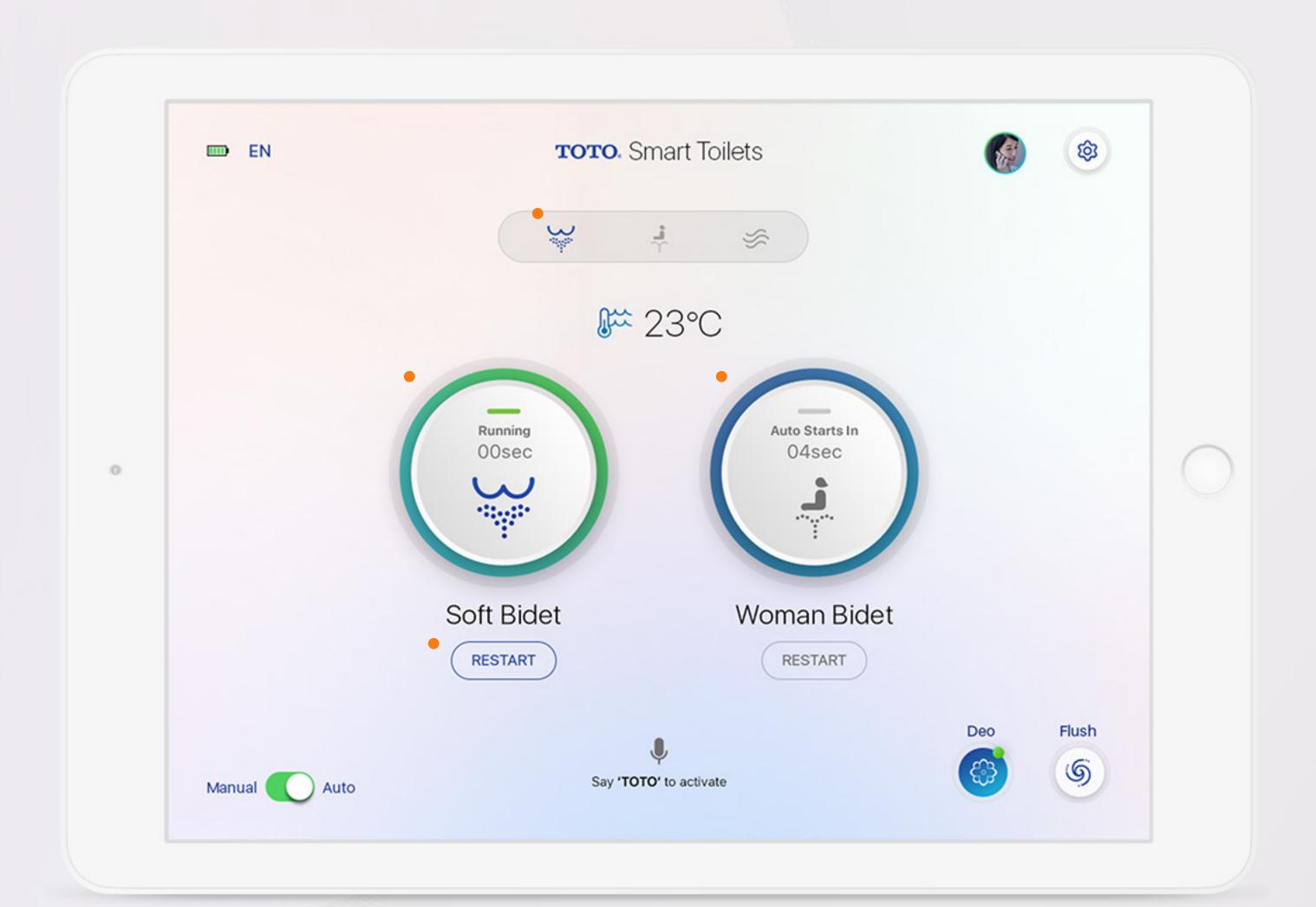
Key Features

• Voice commands to initiate or stop any step or go to the next step.

This facility will relieve the user from everyday hassle of finding the right button and amplify this journey of zero click user interface.



Bidet Screen (Active)

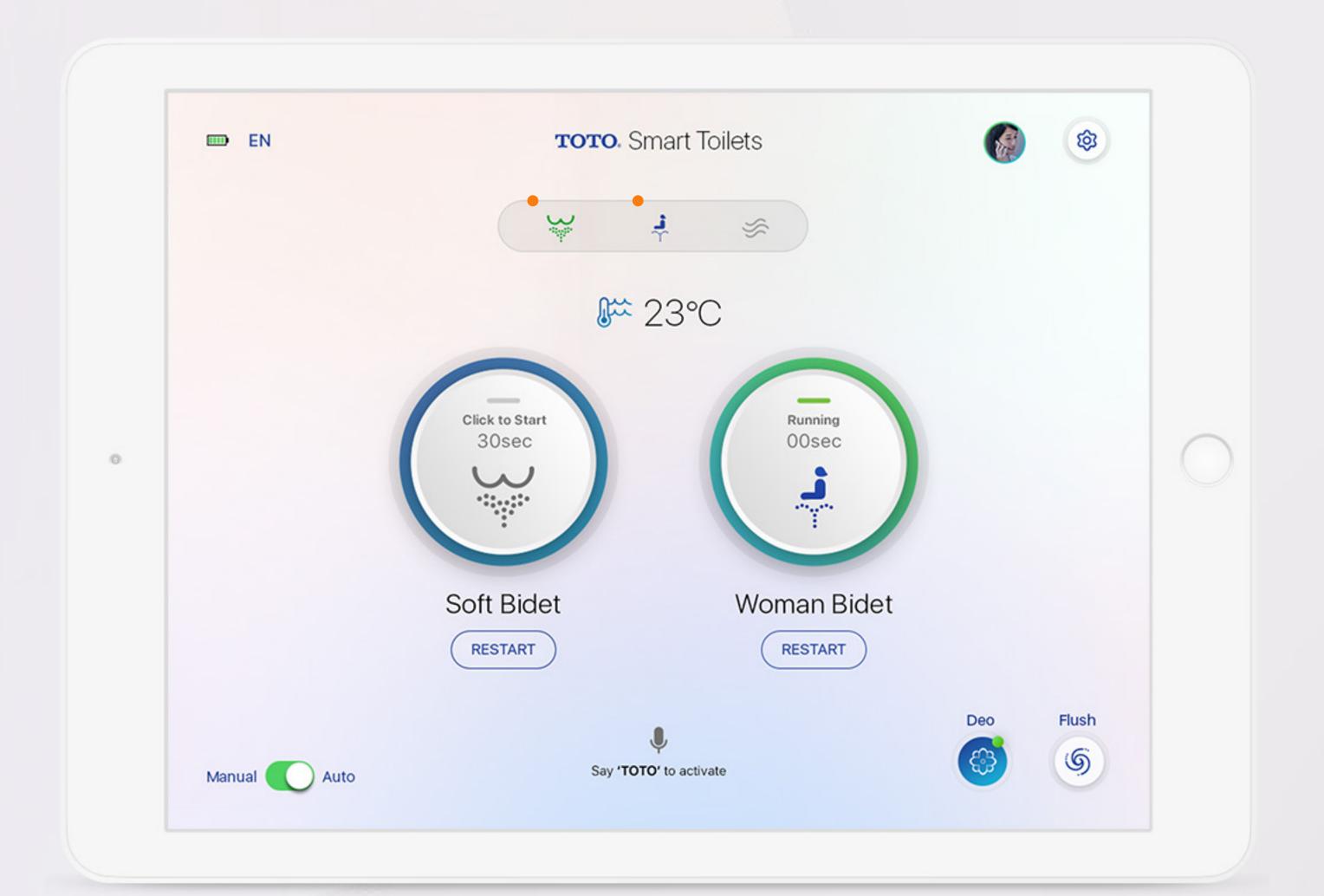


- Status updates to 'Active' once the step starts.
- Soft Bidet gets activated as per the presets.
 - Current running step can stop at any time by clicking on the same button.
- Restart (Repeat) option activates halfway through the running step and is actionable before the current or the next step completes.
- Next step will start after a small buffer, once current step is completed and there are no active repeats.
 - Users can also start the next step manually by clicking on the designated button.





Bidet Screen (Active)

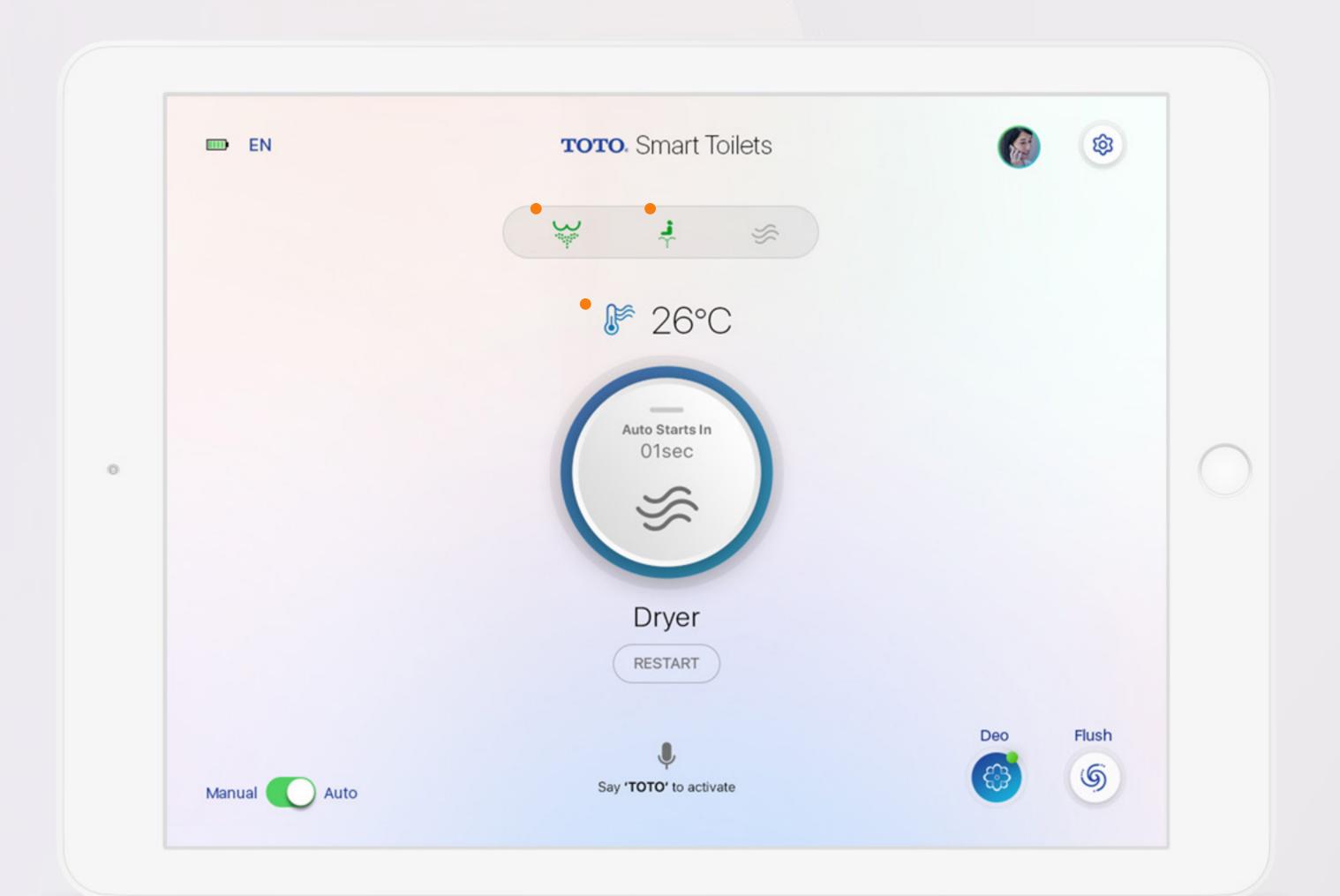


Key Features

• Status updates to 'Active'(blue) for the next step and shows 'Completed'(green) for the previous step.



Dryer Screen (Default)



Key Features

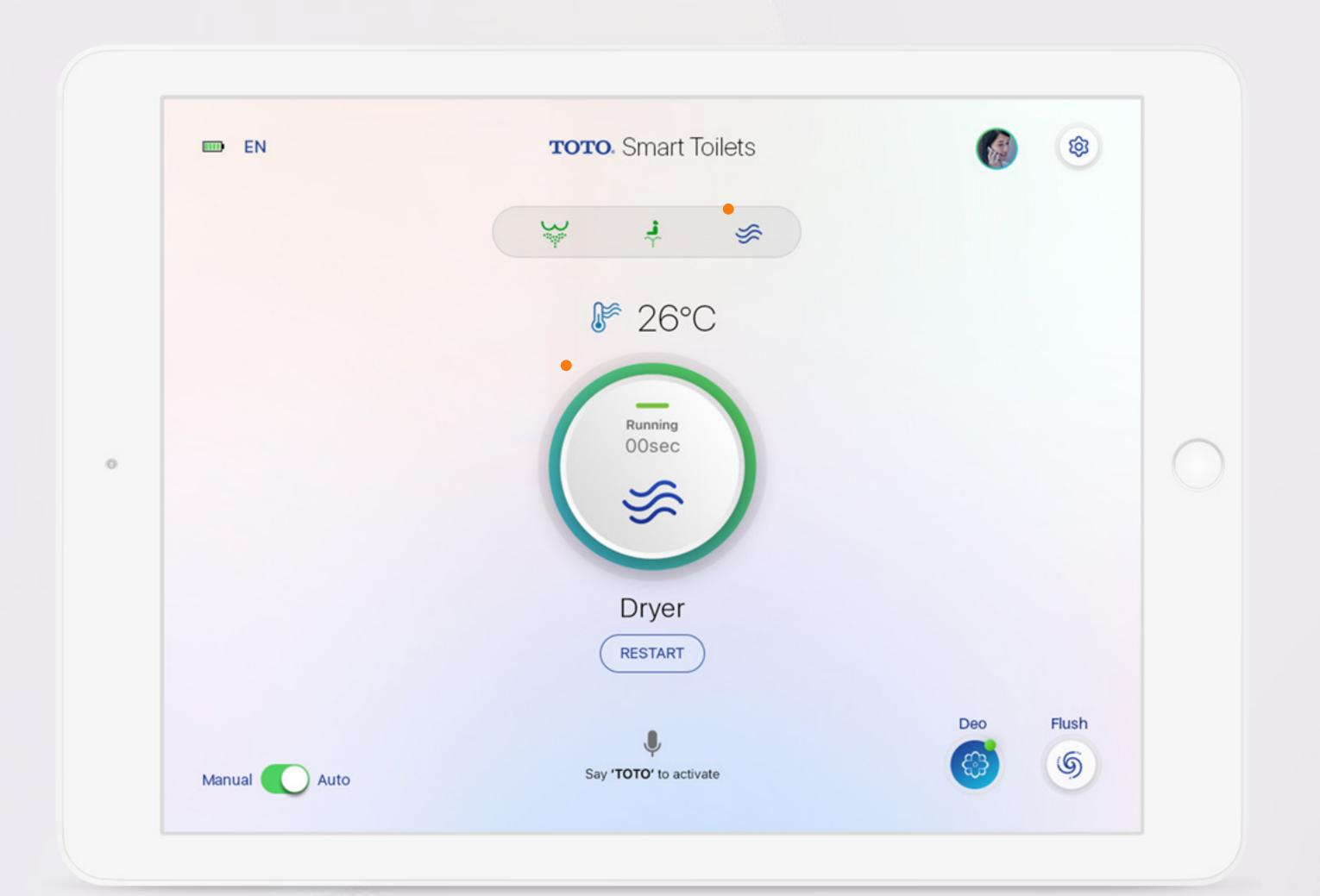
- Dryer screen arrives once the previous step is complete and status is updated for the completed step.
- Current dryer temperature is visible on the screen.

Notes

User can choose to swipe back to the previous step if they want to use the bidet again.



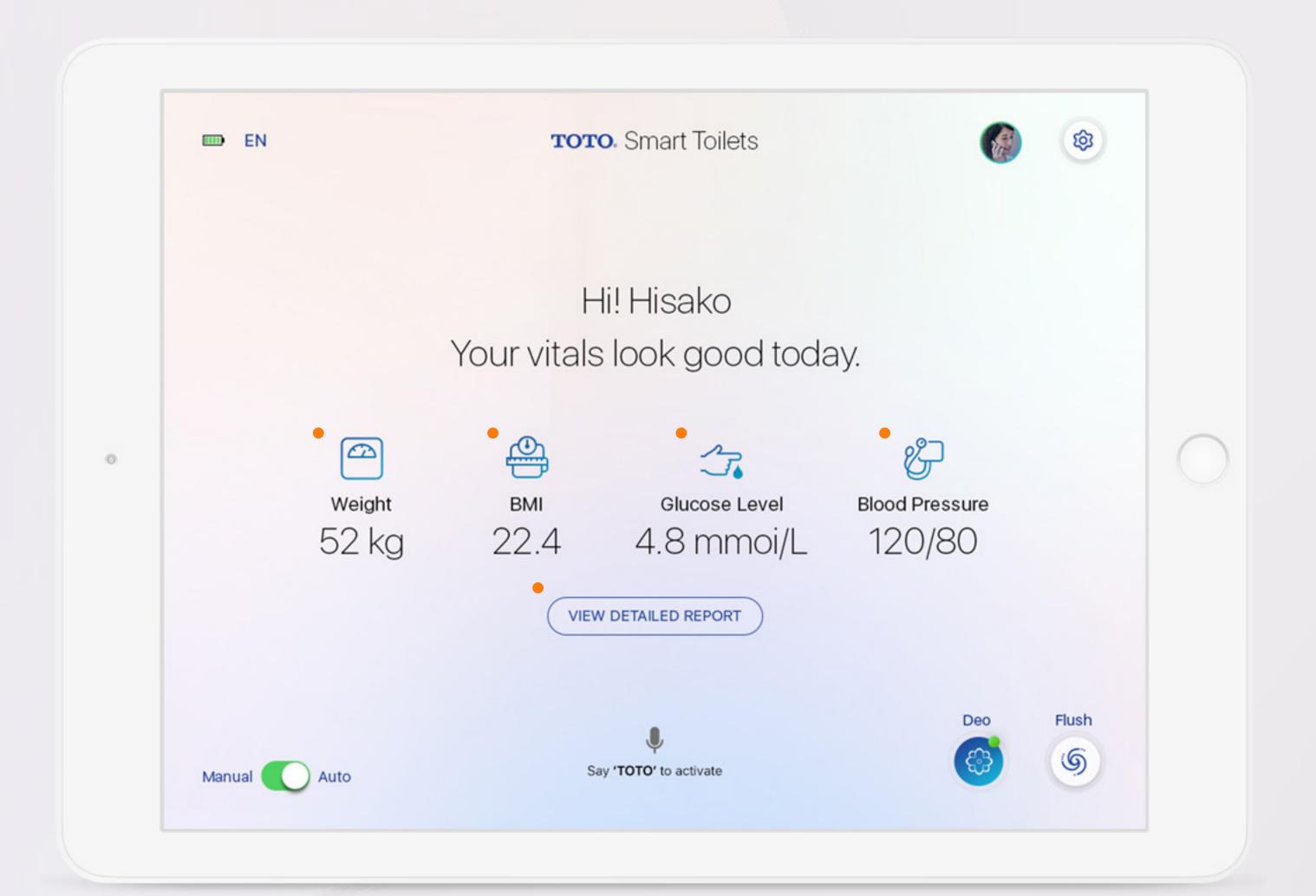
Dryer Screen (Active)



- Status of the current step reflects on the status bar.
- Dryer starts after a delay of few seconds.



Health Vitals

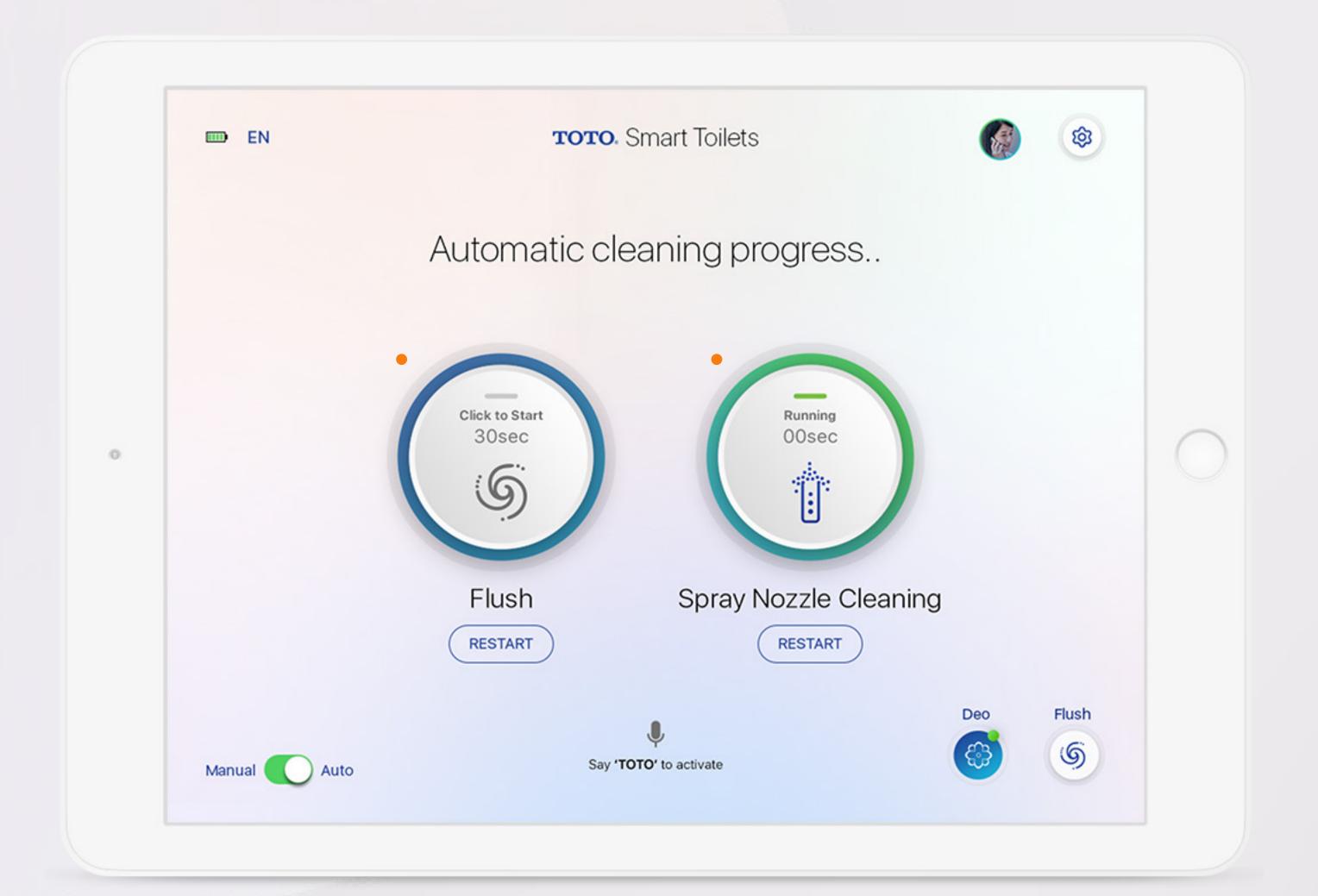


Key Features

 User is updated with the important vitals with a high level summary. User can choose to view a detailed report of the vitals. This can also be done on the sweet home application later.



Toilet Cleaning Active



Key Features

• Once the user leaves the toilet seat the cleaning function starts automatically.

