





Bricksboard

Prima di Iniziare

Prima di iniziare occorre verificare di avere tutto il necessario per collegare il prototipo del dispositivo IoT al Broker con una delle [modalità indicate sul sito](#).

Riepiloghiamo le più semplici ed immediate a scelta tra:

- 1) **Brick ESP** per collegamento con rete WiFi locale (es BLE-B + Sensore ENV+ RPS + ESP)
- 2) **Gateway GW-ESP** per trasmettere al Broker i dati ricevuti localmente via BLE dai Blebricks

Vedi [BLEB-GW Quickstart User guide](#) per configurazione ESP e GW-ESP

- 3) **App Bricksdoor** (App demo android): Scarica e installa la App demo fornita "as is" e realizzata con App Inventor.

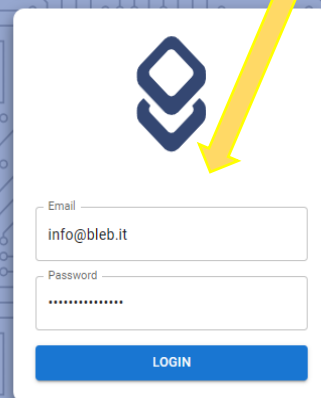
In tutti e tre i casi per accedere al Broker Bricksboard utilizzare le configurazioni e le credenziali ricevute per email.

Bricksboard

Accedi alla
piattaforma
Bricksboard

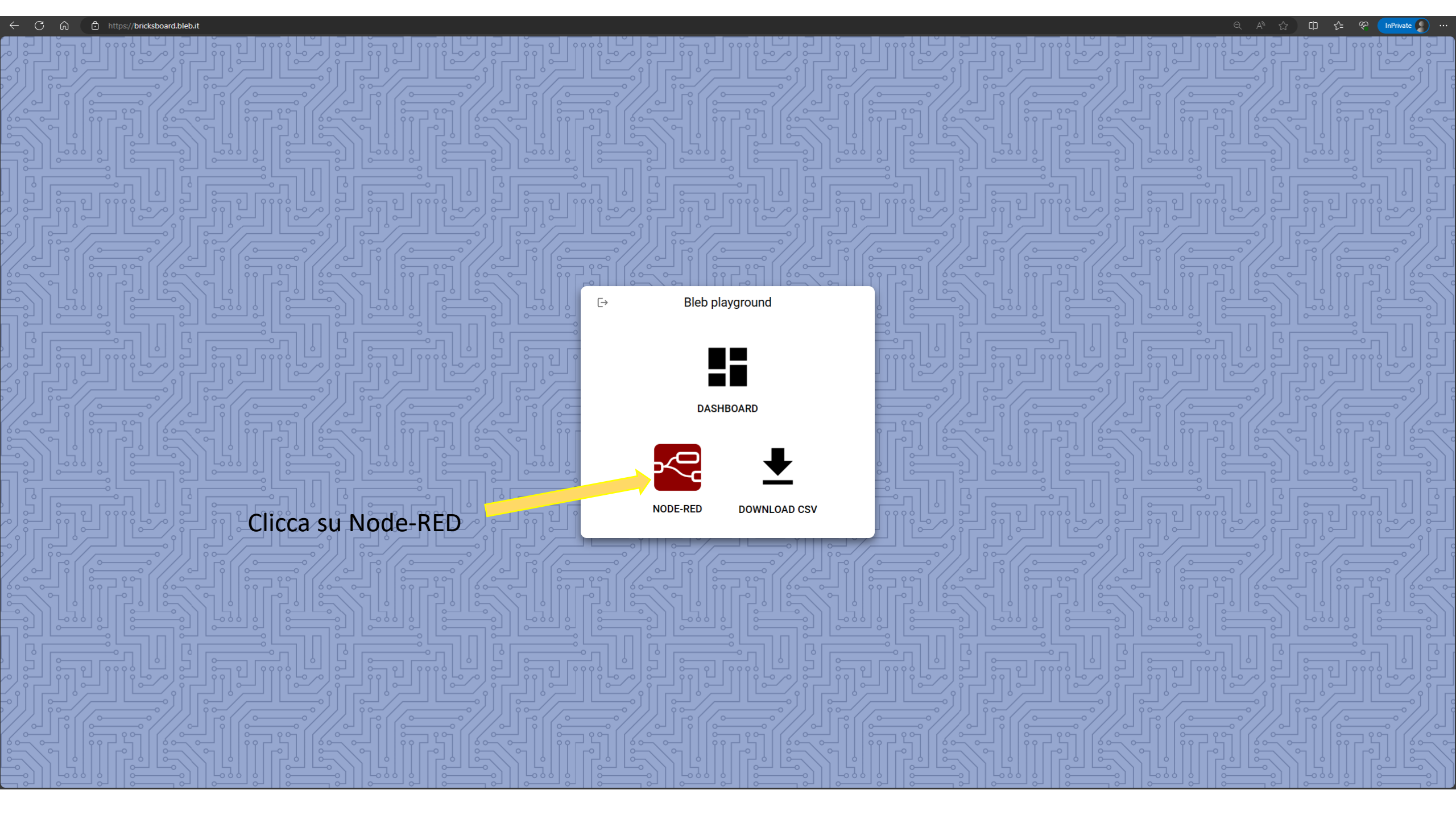
Accedi a:


bricksboard.bleb.it e inserisci le credenziali ricevute per email





The image shows a login form for Bricksboard. At the top is the Bricksboard logo, which consists of two interlocking blue squares. Below the logo are two input fields: 'Email' and 'Password'. The 'Email' field contains the text 'info@bleb.it'. The 'Password' field is masked with dots. Below these fields is a blue button labeled 'LOGIN'. A yellow arrow points from the text 'bricksboard.bleb.it' in the text above to the 'Email' input field.


Se non sei già registrato registrati inviando richiesta a Bricksboard@bleb.it



 Bleb playground


DASHBOARD


NODE-RED

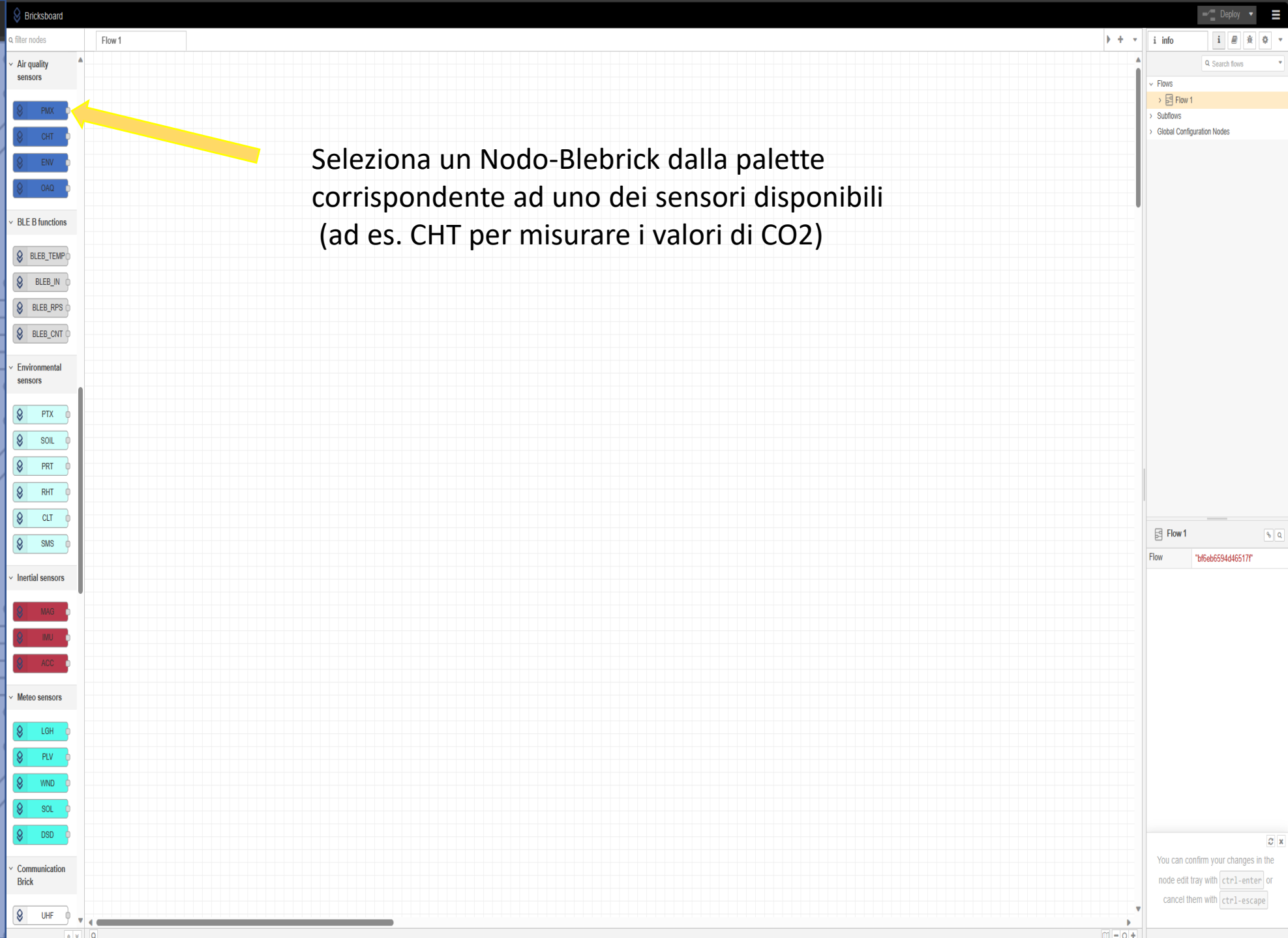

DOWNLOAD CSV

Clicca su Node-RED



Bricksboard

Seleziona il
Nodo Blebricks



The screenshot displays the Bricksboard web application interface. On the left, a vertical palette titled 'filter nodes' lists various sensor categories and their corresponding nodes. The categories include 'Air quality sensors' (PMX, CHT, ENV, OAQ), 'BLE B functions' (BLEB_TEMP, BLEB_IN, BLEB_RPS, BLEB_CNT), 'Environmental sensors' (PTX, SOIL, PRT, RHT, CLT, SMS), 'Inertial sensors' (MAG, IMU, ACC), 'Meteo sensors' (LGH, PLV, WND, SOL, DSD), and 'Communication Brick' (UHF). A yellow arrow points to the PMX node in the 'Air quality sensors' category. The central workspace is a large grid area for building a flow. On the right, a sidebar shows the 'Flow 1' configuration, including a search bar, a list of flows, and a detailed view of the selected flow. The URL 'https://bricksboard.bleb.it' is visible in the top left corner.

Seleziona un Nodo-Blebrick dalla palette corrispondente ad uno dei sensori disponibili (ad es. CHT per misurare i valori di CO2)

Bricksboard

Trascina il Nodo Blebricks

Flow 1

filter nodes

- Air quality sensors
 - PMX
 - CHT
 - ENV
 - OAO
- BLE B functions
 - BLEB_TEMP
 - BLEB_IN
 - BLEB_RPS
 - BLEB_CNT
- Environmental sensors
 - PTX
 - SOIL
 - PRT
 - RHT
 - CLT
 - SMS
- Inertial sensors
 - MAG
 - IMU
 - ACC
- Meteo sensors
 - LGH
 - PLV
 - WND
 - SOL
 - DSD
- Communication Brick
 - UHF

2) Trascina il Nodo-Blebrick nello schermo

CHT brick

Node: "e2e8a2f3fcdaf7a"
Type: CHT

You can confirm your changes in the node edit tray with `ctrl+enter` or cancel them with `ctrl+escape`

Bricksboard

Fai doppio click
sul nodo per
configurarlo

The screenshot displays the Bricksboard web interface. On the left, a sidebar lists various sensor categories: Air quality sensors (PMX, CHT, ENV, OAQ), BLE B functions (BLEB_TEMP, BLEB_IN, BLEB_RPS, BLEB_CNT), Environmental sensors (PTX, SOIL, PRT, RHT, CLT, SMS), Inertial sensors (MAG, IMU, ACC), and Meteo sensors (LGH, PLV, WND, SOL, DSD). A 'Communication Brick' section at the bottom shows a 'UHF' node. The central workspace shows a 'Flow 1' canvas with a 'CHT brick' node placed on it. A yellow arrow points to this node with the text 'Fai doppio click sul nodo'. On the right, the 'Edit CHT node' panel is open, showing fields for Name, Broker (set to 'Add new mqtt-broker...'), and Topic. Below this, a table shows the node's details: Node ID 'e2e8a2f3fccdaf7a' and Type 'CHT'. At the bottom right, a status bar indicates 'Enabled'.

Flow 1

CHT brick

Fai doppio click sul nodo

Edit CHT node

Delete Cancel Done

Properties

Name Name

Broker Add new mqtt-broker...

Topic Topic

CHT brick

Node	e2e8a2f3fccdaf7a
Type	CHT

show more

Your flow configuration nodes are listed in the sidebar panel. It can be accessed from the menu or with ctrl-g c

Enabled

Bricksboard

Seleziona il
Broker da usare

Seleziona il Broker
(se usi quello della piattaforma va configurato
con le credenziali ricevute per email)

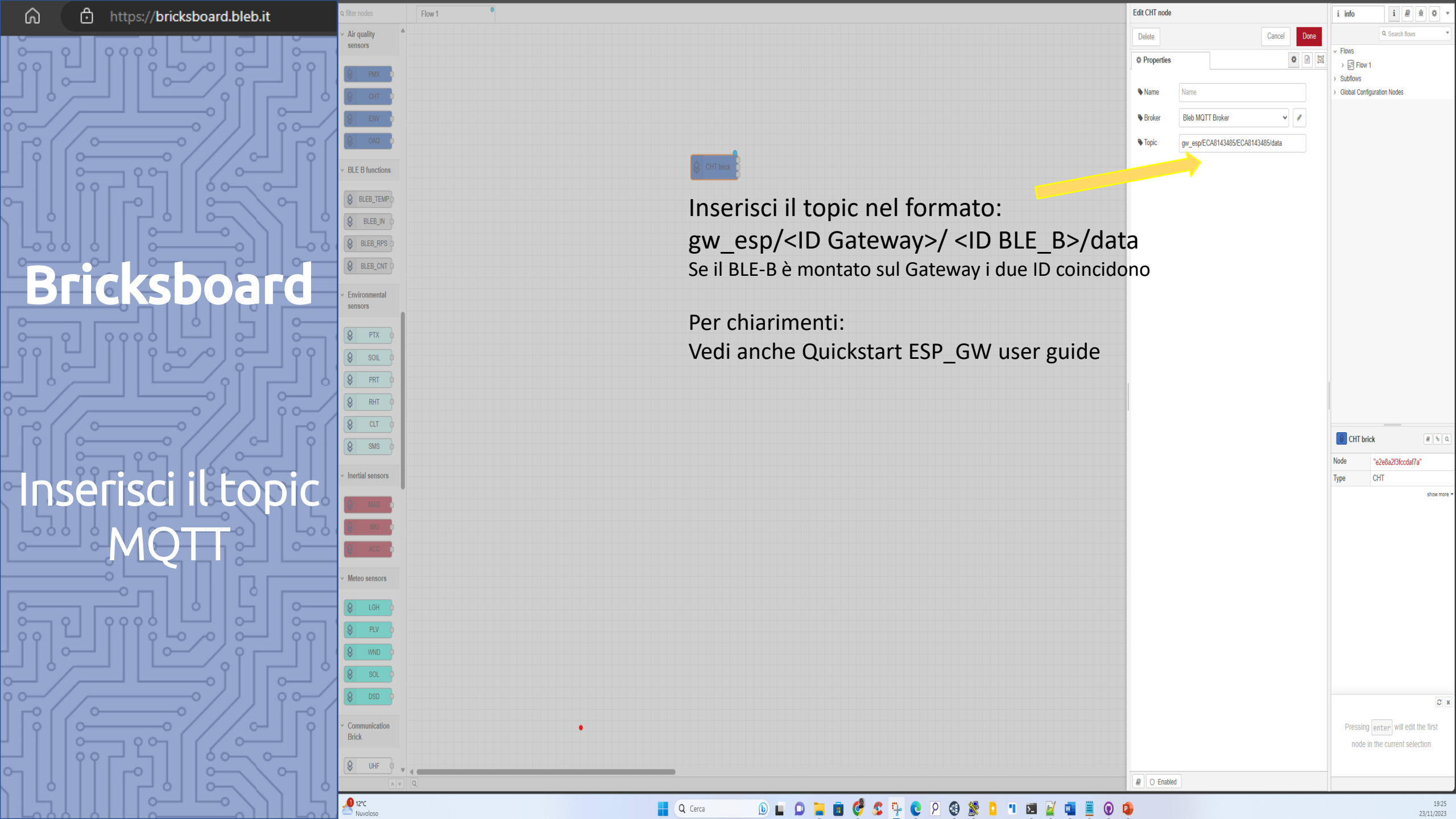
The image shows a screenshot of the Bricksboard web interface. On the left, a sidebar lists various sensor categories: Air quality sensors (PMX, CHT, ENV, OAO), BLE B functions (BLEB_TEMP, BLEB_IN, BLEB_RPS, BLEB_CNT), Environmental sensors (PTX, SOIL, PRT, RHT, CLT, SMS), Inertial sensors (MAG, IMU, ACC), and Meteo sensors (LGH, PLV, WND, SOL, DSD). A 'Communication Brick' (UHF) is also listed. The main workspace shows a 'Flow 1' canvas with a 'CHT brick' node. A yellow arrow points from the 'CHT brick' node to the 'Edit CHT node' panel on the right. This panel has a 'Properties' tab where the 'Broker' is set to 'Bleb MQTT Broker' and the 'Topic' is 'gw_esp/ECA8143485/ECA8143485/data'. The bottom right corner shows a status bar with '12°C', 'Nuvoloso', and a taskbar with various application icons.

Bricksboard

Inserisci il topic MQTT

Inserisci il topic nel formato:
gw_esp/<ID Gateway>/ <ID BLE_B>/data
Se il BLE-B è montato sul Gateway i due ID coincidono

Per chiarimenti:
Vedi anche Quickstart ESP_GW user guide



Bricksboard

Trascina un
nodo di
visualizzazione

The screenshot displays the Bricksboard web interface. On the left, a vertical palette titled 'filter nodes' lists various components categorized by type: ODC, Light sensors (PYR, UVA, RGB), Electrical measurement (CMS, RMS, VMS), Proximity detector (PDM, CAP, UWS), and dashboard. The dashboard category is expanded, showing a list of visualization nodes including button, dropdown, switch, slider, numeric, text input, date picker, colour picker, form, text, gauge, chart, audio out, notification, ui control, and template. A yellow arrow originates from the 'gauge' node in the dashboard palette and points to a 'gauge' node already placed on the main workspace. The workspace, titled 'Flow 1', contains two nodes: a blue 'CHT brick' node and an orange 'gauge' node. On the right side of the interface, an 'info' panel shows details for the selected 'gauge' node, including its ID '096294b6887c1cb1' and type 'ui_gauge'. A 'Deploy' button is visible in the top right corner.

Seleziona e trascina un nodo di visualizzazione
disponibile nella palette «Dashboard»
Ad. es. di tipo «Gauge»

Bricksboard

Configura il nodo di visualizzazione

Inserisci un nome per il gruppo di visualizzazione
Es: Sensore CO2



Optional:
Dai un nome al visualizzatore,
all'unità di misura e indica il range
Es: CO2 , ppm, 1000

Edit gauge node

Delete Cancel Done

Properties

[Home] Sensore CO2

Size auto

Type Gauge

Label CO2

Value format {{value}}

Units ppm

Range min 0 max 1000

Sectors 0 optional optional 1000

Fill gauge from centre ☐

Class Optional CSS class name(s) for widget

Name

info

Search flows

Flows

- Flow 1
- Subflows
- Global Configuration Nodes

gauge

Node "096294b8887c1cb1"

Type ui_gauge

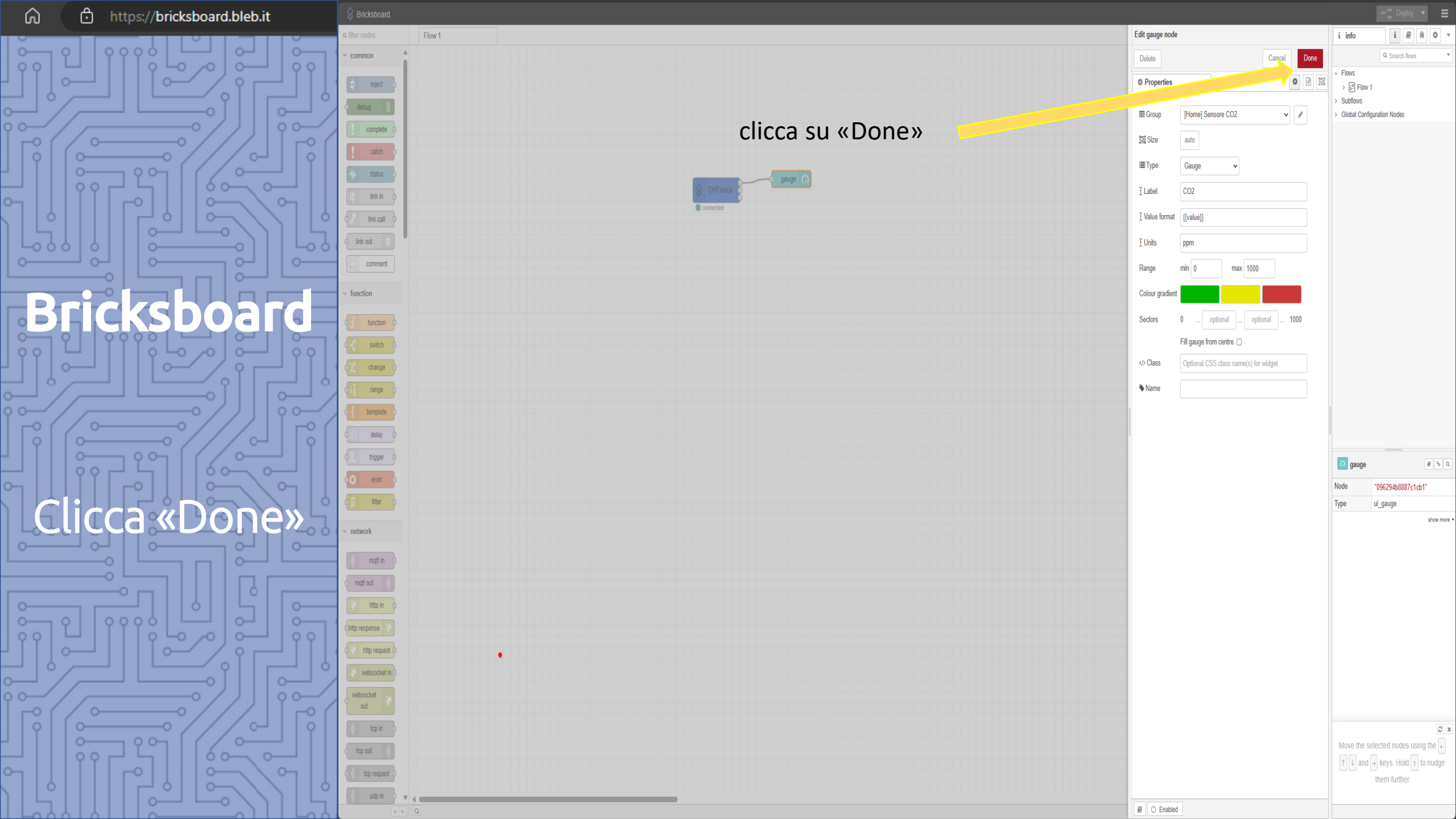
show more

Move the selected nodes using the and keys. Hold to nudge them further

Bricksboard

Clicca «Done»

clicca su «Done»



Bricksboard

Collega i nodi

Bricksboard

https://bricksboard.bleb.it

q filter nodes

ODC

Light sensors

PYR

UVA

RGB

Electrical measurement

CMS

RMS

VMS

Proximity detector

PDM

CAP

UWS

dashboard

button

dropdown

switch

slider

numeric

text input

date picker

colour picker

form

text

gauge

chart

audio out

notification

ui control

template

Flow 1

CHT brick

gauge

Collega i nodi con il tasto del mouse

info

Search flows

Flows

Flow 1

Subflows

Global Configuration Nodes

CHT brick

Node "e2e8a2f3fcdaf7a"

Type CHT

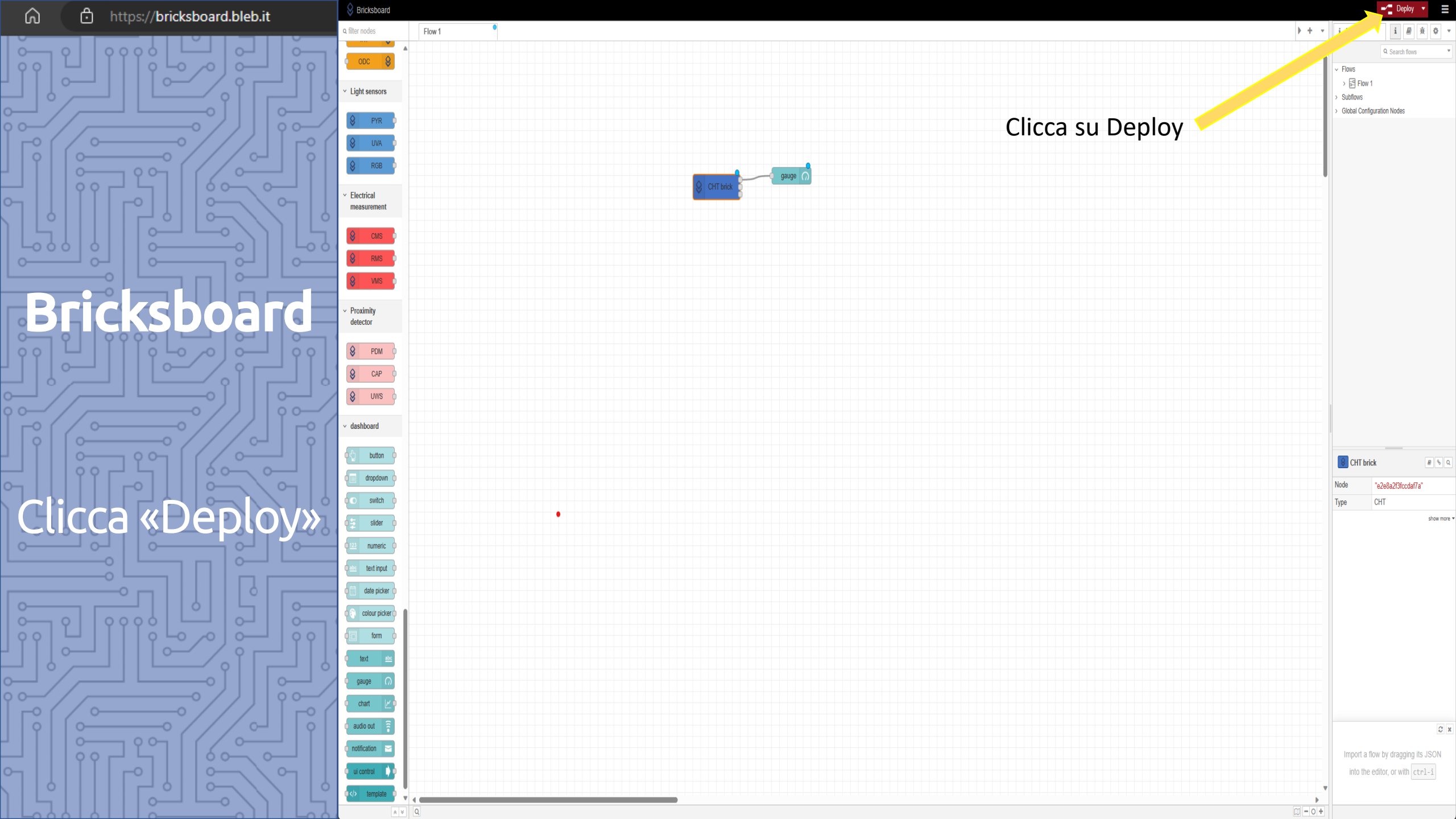
show more

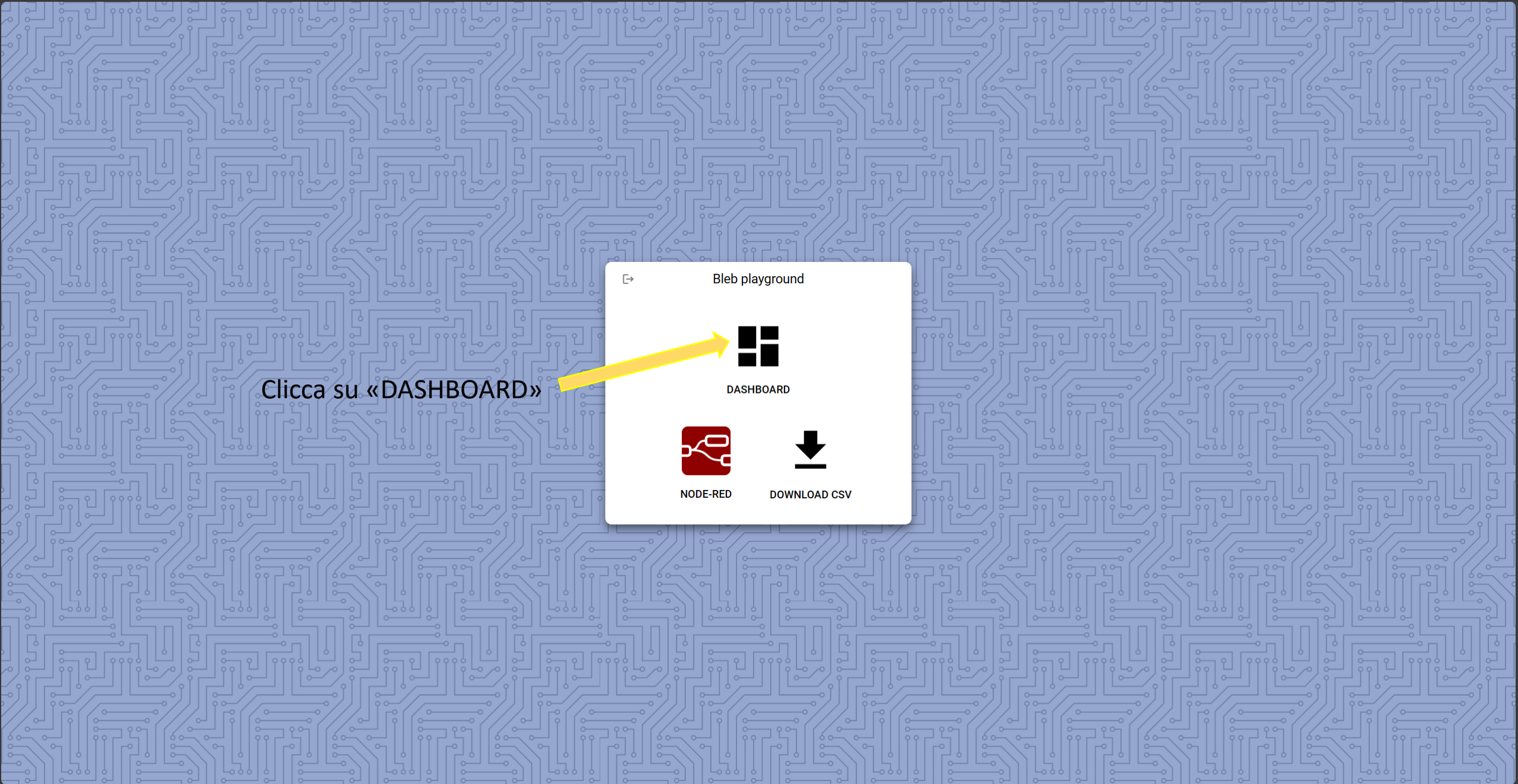
Import a flow by dragging its JSON into the editor, or with `ctrl-i`

Bricksboard

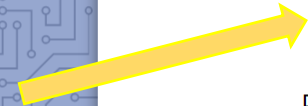
Clicca «Deploy»


Clicca su Deploy






Clicca su «DASHBOARD»







Bleb playground



DASHBOARD



NODE-RED



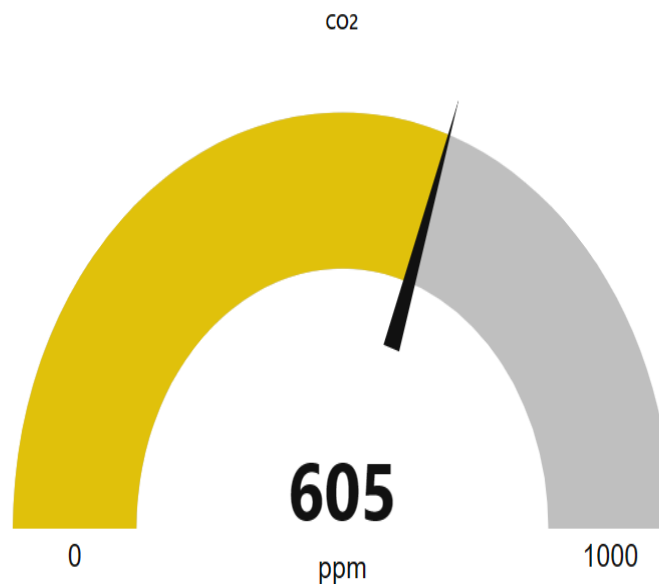
DOWNLOAD CSV



Bricksboard

Ed ecco la tua Dashboard!

Sensore CO2



Per vederla basta visualizzarla con qualsiasi browser
memorizzando l'indirizzo della tua pagina



Bricksboard

Aggiungi altri
nodi e fai
piattaforme più
complesse!

Parametri Ambientali

Air Temperature



Pressure



Humidity



IAQ



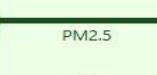
VOCs



PM1



PM2.5



PM10



CO2



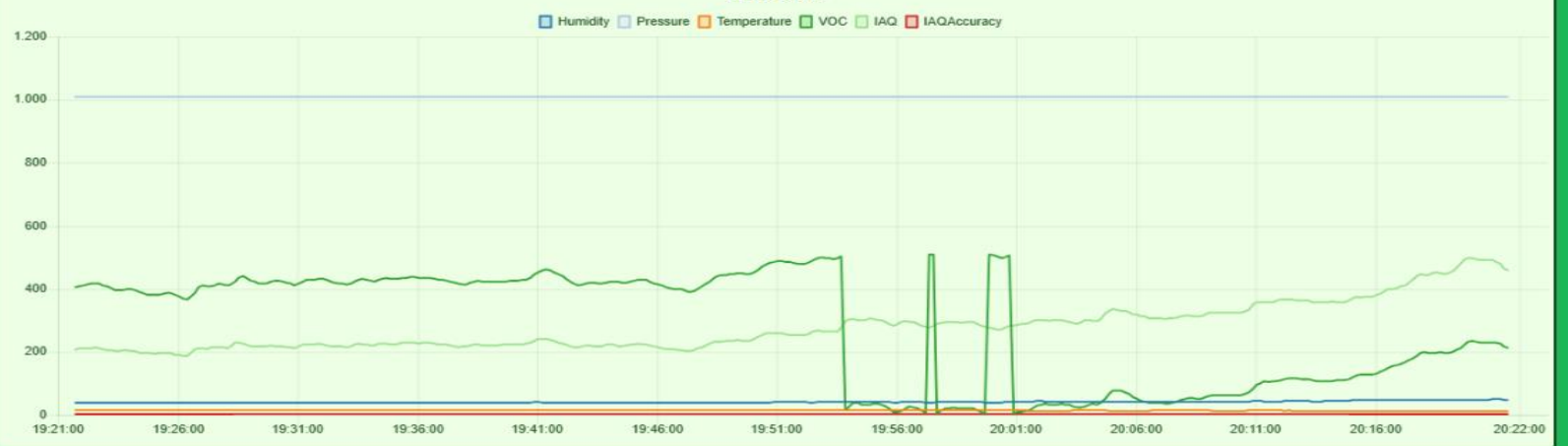
Ozone



EPA



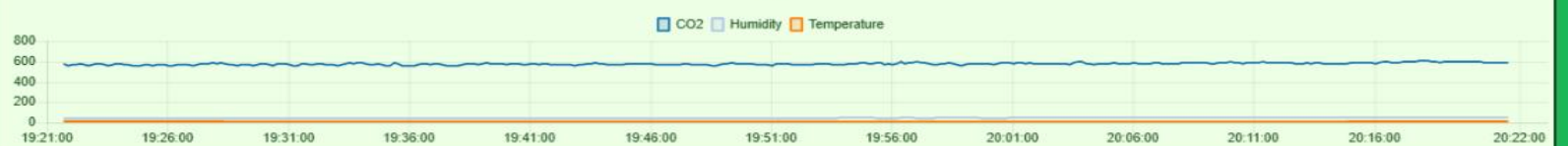
ENV Chart



PMx Chart



CHT



OAQ Chart

