PORTFOLIO CASE STUDY | AUTOMATION

# Post to All Socials Automation

Fill out one form with an image and a caption. The workflow publishes to Bluesky, X, Instagram, and LinkedIn, then sends one email when it is done.

n8n | Google Drive | Social APIs | Gmail




Workflow built in n8n | Images from Google Drive | Confirmation by Gmail

# 01 Project Overview

What the automation is, what it is for, and who it helps

PROJECT NAME

## Post to All Socials Automation

A workflow that turns one form into posts on Bluesky, X, Instagram, and LinkedIn. You enter an image link from Google Drive and a caption. The workflow handles each platform and emails you once, when every post is done.

MAIN OBJECTIVE

Post once and publish everywhere, so your message stays consistent and you stop repeating the same steps on every platform.

WHO IT HELPS

- **Coaches and educators**
  Share lessons and updates everywhere
- **Small and online businesses**
  Promote products and offers
- **Creators and personal brands**
  Keep every channel active
- **Agencies and social teams**
  Post for many accounts faster
- **Events and community groups**
  Announce news on all channels

| | |
|---|---|
| 4 | platforms posted from one form |
| 1 | image and caption, entered once |
| 1 | email when every post is done |
| Drive | Google Drive holds the image |

# 02 The Business Pain

What goes wrong when you post to every platform by hand

### Posting takes too long

Logging in to four apps to share the same post eats a big part of the day.

### Every platform has its own rules

Each one wants the image and caption sent in a different way.

### Channels get missed

It is easy to forget one platform, so followers see different things.

### Copy and paste mistakes

Wrong captions, wrong images, and broken links slip in.

### No clear confirmation

Nobody knows for sure that every post went live.

### Sound familiar?

Showing up on every channel matters, but it should not cost hours. One form and one workflow can do the repeat work for you.

# 03 The Proposed Solution

One form in, four platforms out, one confirmation email

| WHAT YOU DO | WORKFLOW DOES | RESULT |
|---|---|---|
| *You fill out one form with an image link and a caption* | **Prepare content**<br>On form submission starts the run | Everything starts in one place |
| *The image needs to be ready to use* | **Prepare content**<br>Move file organizes it, Edit Fields builds the link | A clean image link |
| Bs *Bluesky needs its own steps* | **Bluesky lane**<br>Creates a session, gets the file, uploads it, submits the post | Post is live on Bluesky |
| X *X needs its own steps* | **X lane**<br>Downloads the image, uploads media, posts the tweet | Post is live on X |
| Ig *Instagram and LinkedIn need theirs* | **Instagram and LinkedIn lanes**<br>Instagram: container, then post. LinkedIn: download, then post | Posts are live on both |
| *You want to know it is done* | **Send email notification**<br>Merge combines all results, then Gmail sends one email | One email when all posts finish |

# 03 Manual Posting vs. One-Form Automation

Why one workflow beats logging in to every platform

## Manual posting

- ✕ Log in to each platform one by one
- ✕ Paste the caption four times
- ✕ Upload the image four times
- ✕ Easy to forget a channel
- ✕ No single confirmation
- ✕ Time grows with every platform

VS

## One-form automation

- ✓ Fill out one form, one time
- ✓ Caption and image go to every account
- ✓ Each platform's rules are handled for you
- ✓ All four posts go out from one run
- ✓ One email says when all posts are done
- ✓ Add a platform by adding a lane

IN ONE LINE

**One form in, four platforms out, one confirmation email.**

A lane is one platform's path of steps inside the workflow.

# 04 Key Features & Capabilities

What the system can actually do

### Single form entry

Enter the image link and the caption once in the form.

### Google Drive images

Move file and Edit Fields prepare the image link from Drive.

### Bluesky posting

Creates a session, uploads the image, and submits the post.

### X posting

Downloads the image, uploads the media, and posts the tweet.

### Instagram posting

Creates a container ID, then posts to Instagram.

### LinkedIn posting

Downloads the image and creates the post.

### Lanes side by side

All four platform lanes start from the same prepared content.

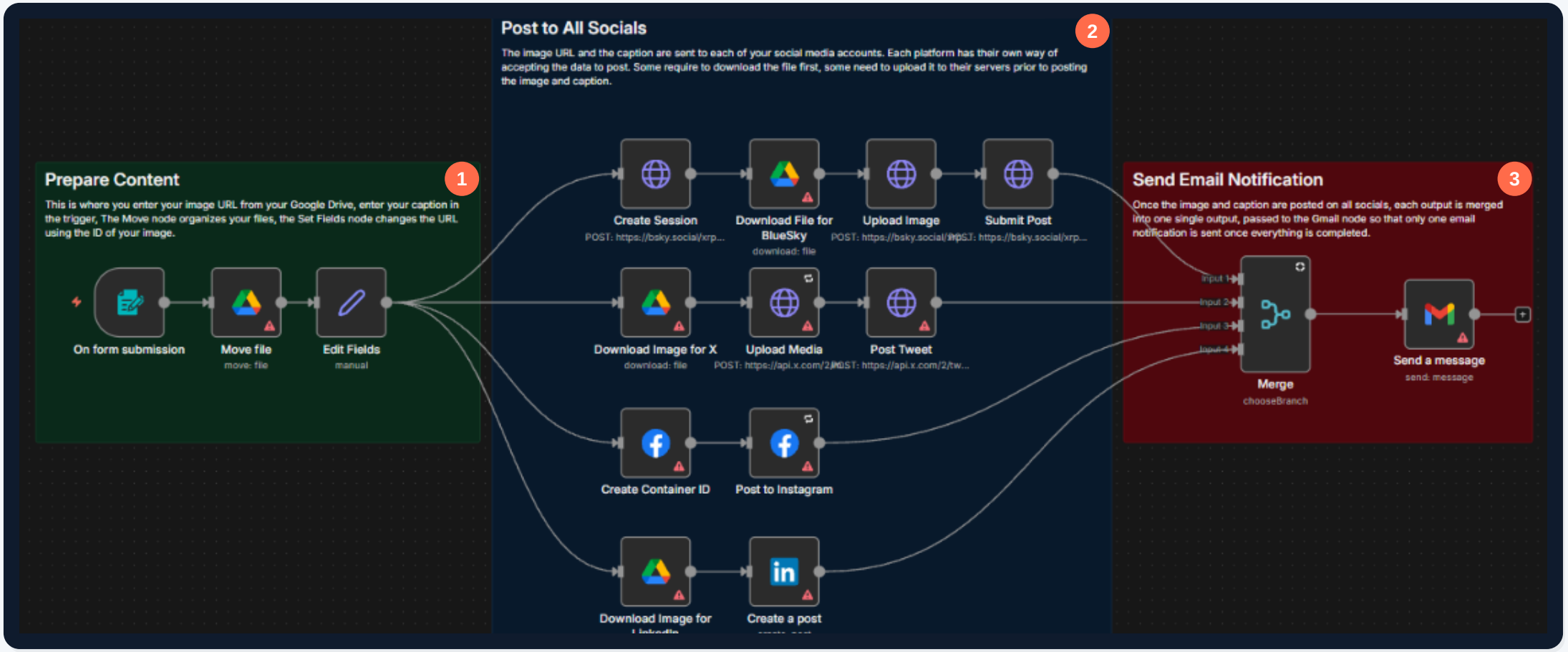
### One confirmation email

Merge gathers every lane, then Gmail sends a single email.

**Each platform gets the image and caption in the way it requires.**

# 05 Workflow Architecture

The real n8n workflow, grouped into three stages




*Real workflow in n8n. The note boxes inside the workflow describe each stage.*

1 ● **Prepare content** 2 ● **Post to all socials** 3 ● **Send email notification**

# 05 How the Stages Connect

What each stage does, and the steps inside each platform lane

### 1 Prepare content

You enter an image URL from Google Drive and a caption in the form. Move file organizes your files. Edit Fields changes the URL using the ID of your image.

Tools: Form, Google Drive, Set

### 2 Post to all socials

The image URL and caption go to every social account. Each platform accepts data its own way. Some need the file downloaded first, and some need an upload before the post.

Tools: HTTP, Facebook Graph, LinkedIn

### 3 Send email notification

When all posts are done, the outputs are merged into one. The Gmail node then sends a single email, so you get one message when everything is complete.

Tools: Merge, Gmail

## Four lanes, one per platform

**Bs Bluesky** — Create Session → Download File for BlueSky → Upload Image → Submit Post

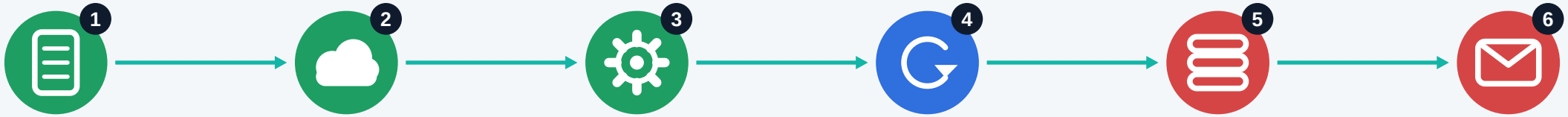
**X X** — Download Image for X → Upload Media → Post Tweet

**Ig Instagram** — Create Container ID → Post to Instagram

**in LinkedIn** — Download Image for LinkedIn → Create a post

# 06 How It Works

From one form submission to a finished confirmation




### Fill the form

Enter the Drive image link and the caption.

### File is organized

Move file organizes the image in Google Drive.

### Link is built

Edit Fields builds the URL from the image ID.

### Posts go out

Bluesky, X, Instagram, and LinkedIn each get the post.

### Results merge

Merge combines the four results into one.

### Email arrives

Gmail sends one email when everything is done.

**Example form**

IMAGE URL (GOOGLE DRIVE)

https://drive.google.com/file/d/your-image-id

CAPTION

New lesson is live! Watch it today and tell us what you think.

Submit

Bs X Ig in

*Example only.*

**EXAMPLE CONFIRMATION EMAIL**

**Subject: Your post is live**

Hi,

Your image and caption were posted to Bluesky, X, Instagram, and LinkedIn.

You will get one email like this each time, after every post finishes.

*Example only. Your email text can be changed.*

# 07 Business Benefits & Expected Outcomes

The value, the time saved, and the operational gains

### Post once, publish everywhere

One form sends your image and caption to all four platforms.

### Time saved

No more logging in to each app and repeating the same steps.

### Fewer mistakes

The same image and caption go everywhere, so nothing gets mixed up.

### Consistent message

Followers see the same post on every channel.

### Easy to add platforms

Add another lane when you want to reach a new channel.

### Clear confirmation

One email tells you when every post is finished.

## Example time savings




5 posts a week x 4 platforms x 5 minutes each = 100 minutes. With the form, 5 posts x 2 minutes to fill in = 10 minutes. You save about **90 minutes a week**, or about 78 hours a year.

*Example only. Real results depend on how often you post and how many platforms you use.*

# 08 Technology Stack & Implementation

The tools, what you need, and how it can be customized

## TECHNOLOGY STACK

| | |
|---|---|
| **n8n** | Workflow engine and the form trigger |
| **Google Drive** | Holds the image, moves it, and downloads it for each platform |
| **Bluesky and X APIs** | HTTP requests to create sessions, upload media, and post |
| **Facebook Graph API** | Creates the container and publishes to Instagram |
| **LinkedIn** | Creates the post on your profile or page |
| **Merge and Gmail** | Combine the results and send one confirmation email |

## WHAT YOU NEED

- n8n account (cloud or self-hosted)
- Google Drive for your images
- API access for each platform you post to
- Instagram business or creator account via Facebook
- Gmail for the confirmation email

## CUSTOMIZATION IDEAS

- Add lanes for Facebook Pages, Threads, or Pinterest
- Add a schedule or an approval step
- Pull captions from a Google Sheet or an AI step
- Use Slack or Teams instead of Gmail
- Add video posts alongside images

## How it gets built

### 1 Connect accounts

Set up API access for each platform and for Google.

### 2 Build the lanes

Create one lane per platform with the steps it needs.

### 3 Test each platform

Post a test image and caption to every account.

### 4 Launch and monitor

Go live, watch the emails, and fix anything that fails.

# Ready to post everywhere at once?

Tell us which platforms you use. We connect the accounts, build a lane for each one, and test until a single form posts everywhere.




**One form. Four platforms. One email.**

Built with n8n, Google Drive, social platform APIs, and Gmail.