

Atelier logiciel : simulation d'un système de transmission

Soutenance de fin de projet



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Bilan

Equipe et rôles



Jordan BAUMARD
Développeur principal

Conçoit l'architecture, développe les fonctionnalités clés et garantit la qualité du code



Roman GUERRY
Développeur

Participe au développement de diverses fonctionnalités et contribue au bon déroulement du projet



Pol GUILLOU
Chef de projet

Coordonne le projet, assure la communication entre les membres et rédige le rapport



Mathis MAQUENNE
Responsable DevOps

Automatise les tests, rédige la documentation, déploie automatiquement les livrables



Maxime PERE
Responsable des tests

Conçoit et exécute les tests, vérifie la qualité et assure le bon fonctionnement des fonctionnalités

Gestion de projet



Gestion du développement

Utilisation des outils et des méthodes utilisés dans des contextes professionnels

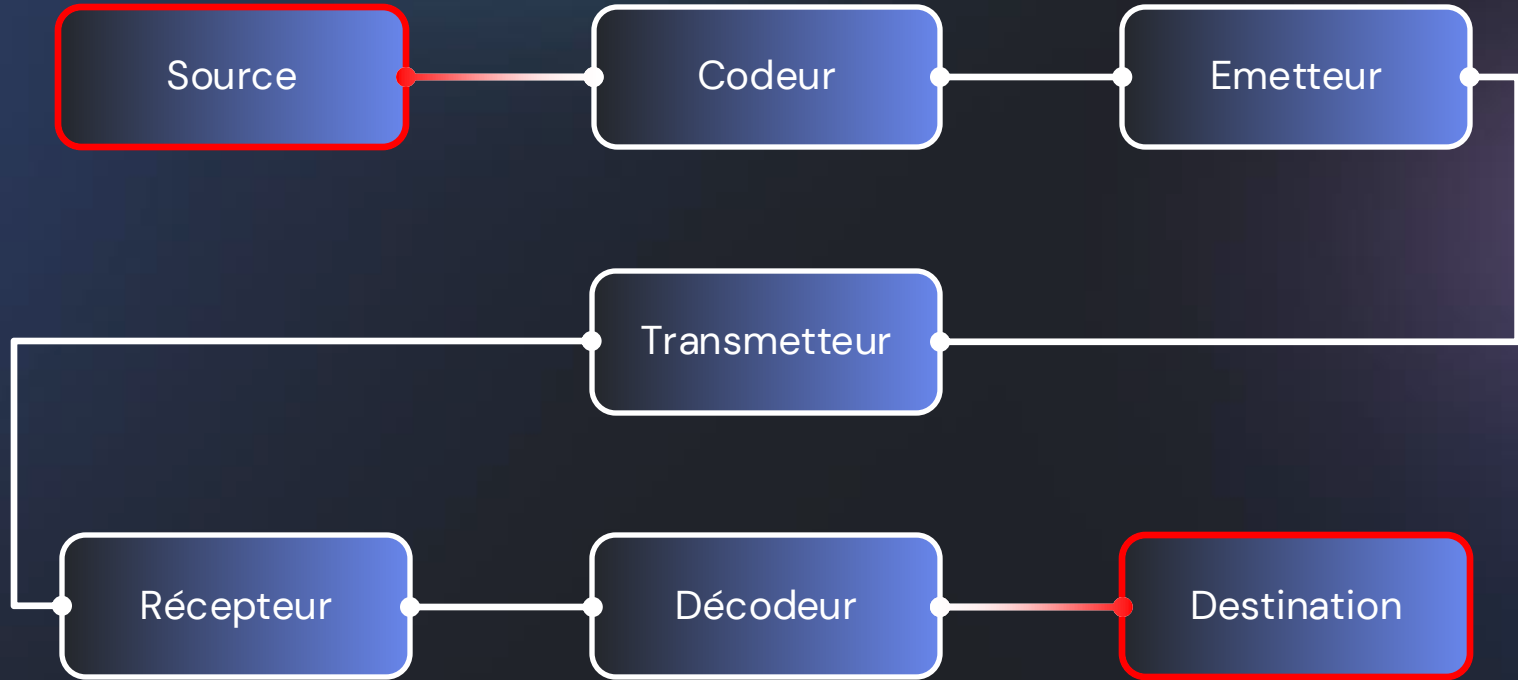
- Création d'un **repository** GitLab
- Pour chaque itération, utilisation de **deux branches** (main et step-X)
- **Documentation générée automatiquement** via un pipeline, déployée sur GitLab pages + README

Mobilisation d'outils de tests tout au long du projet

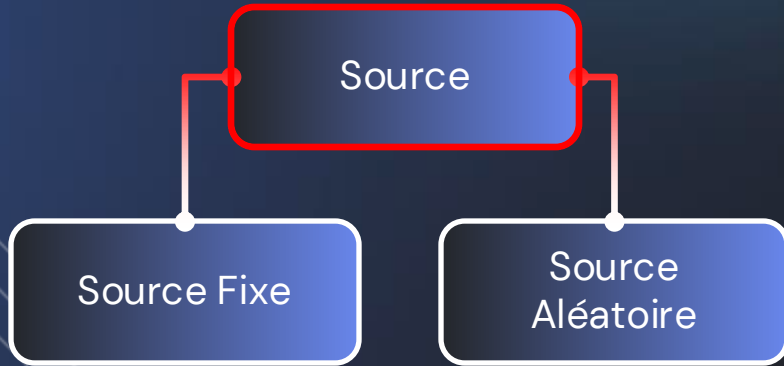
- **Junit 4 / Emma / EasyMock**
- Distinction entre les tests et le reste du développement
- **Exécution** automatique de l'ensemble **des tests** par la pipeline
- Mise en place de tests **unitaires, fonctionnels, visuels** et de **performance**



Architecture du système de transmission



Architecture du système de transmission



Précision du type de message à envoyer avec les paramètres :

- **-mess** : précise le message ou la longueur du message à émettre
- **-seed** : précise l'utilisation d'une semence pour l'initialisation des générateurs aléatoires du simulateur

Pour visualiser les résultats obtenus, utilisation de sondes

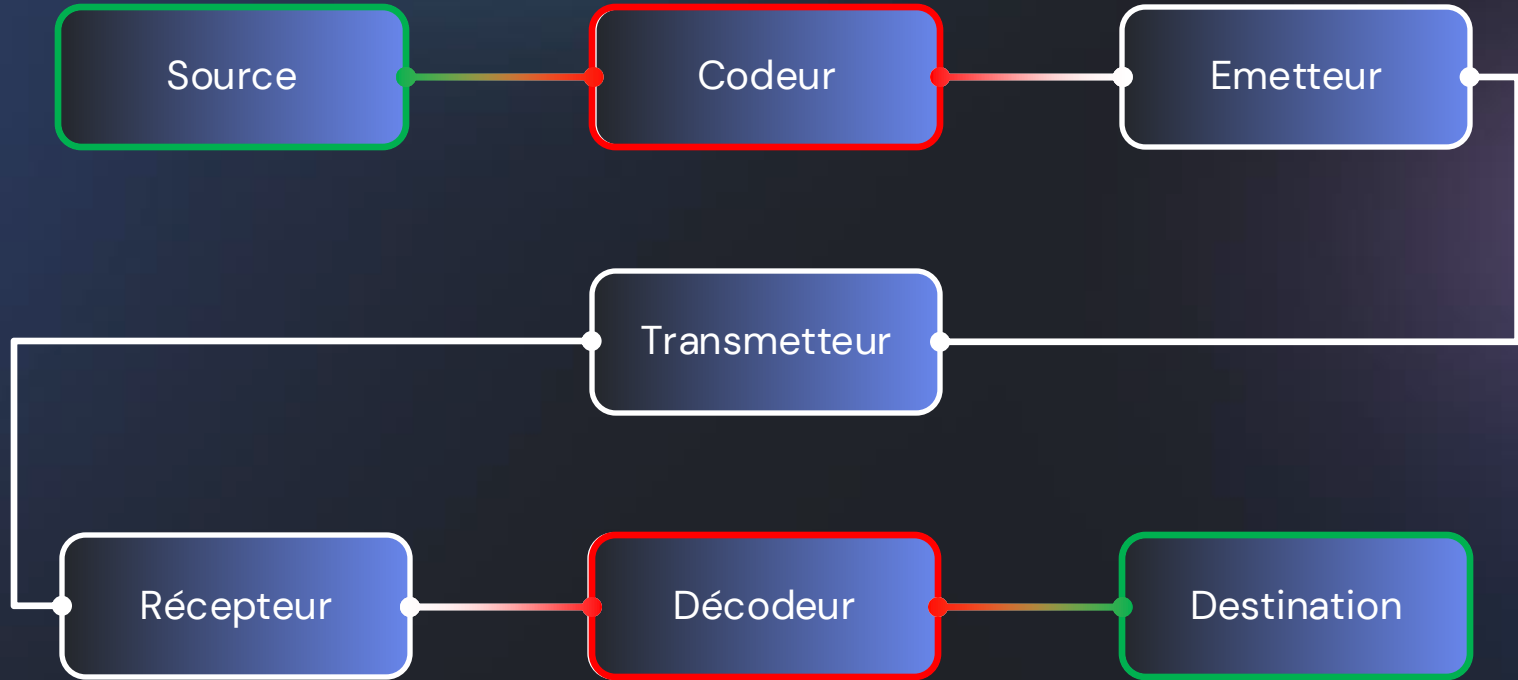
- Avec le paramètre **-s**
- Les sondes peuvent être placées en sortie de chaque élément de la chaîne de transmission

Les extrémités de la chaîne peuvent simuler :

- Une caméra de surveillance
- Un poste de sécurité qui reçoit le flux vidéo

A blue rounded rectangular box with a red border, labeled 'Destination'. It is positioned at the bottom right of the slide, below the list of simulation endpoints.

Architecture du système de transmission



Architecture du système de transmission

Utilisation du codeur / décodeur

- **-codeur** : précise l'utilisation d'un codeur (en émission) et d'un décodeur (en réception)
- Permet de diminuer le taux d'erreur binaire
- Reçoit et émet une séquence binaire
- Mise en place de la méthode de codage de retenu

Codeur

Codeur

- Transforme un bit reçu en une séquence de trois bits :
 - $0 \rightarrow 010$
 - $1 \rightarrow 101$

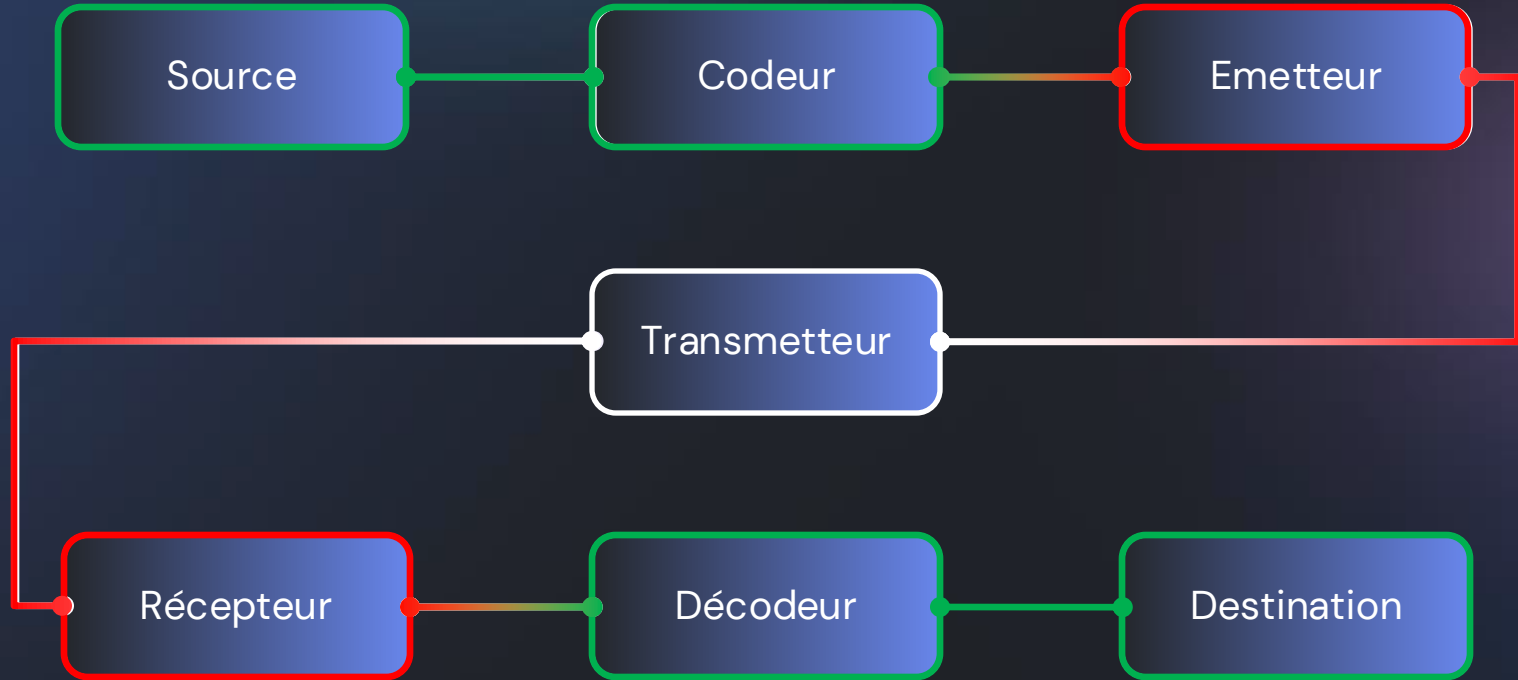
Décodeur

- Transforme les séquences de trois bits reçus en un bit à transmettre :

◦ $000 \rightarrow 0$	◦ $100 \rightarrow 1$
◦ $001 \rightarrow 1$	◦ $101 \rightarrow 1$
◦ $010 \rightarrow 0$	◦ $110 \rightarrow 0$
◦ $011 \rightarrow 0$	◦ $111 \rightarrow 0$

Décodeur

Architecture du système de transmission



Architecture du système de transmission

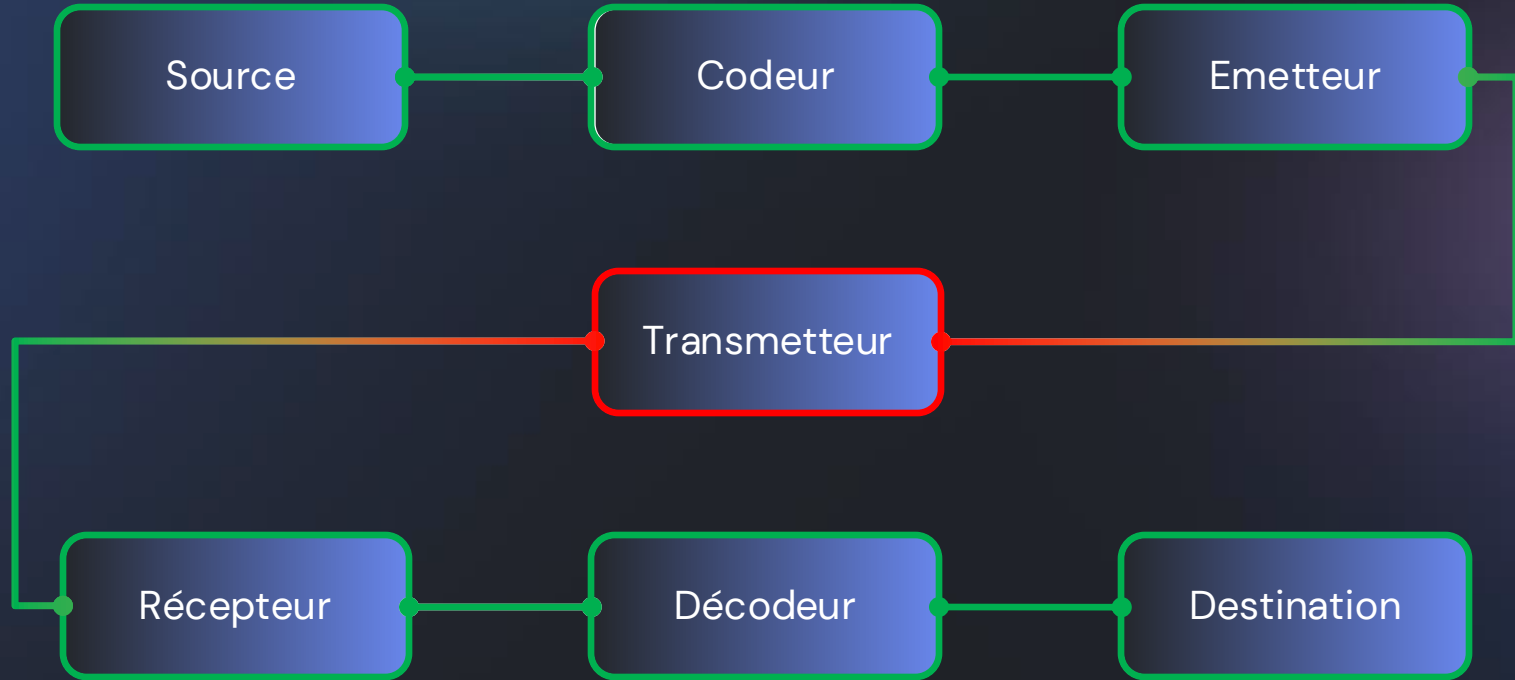
Emetteur



The diagram illustrates the basic architecture of a transmission system. It consists of two main components: an 'Emetteur' (Emitter) located in the upper right quadrant and a 'Récepteur' (Receiver) located in the lower left quadrant. Both components are represented by blue rounded rectangles with a red border. The background is a dark blue gradient with faint geometric patterns, including concentric circles at the bottom right and parallel lines on the left side.

Récepteur

Architecture du système de transmission



Architecture du système de transmission



Transmetteur

Behind the scenes



Unmasking creation

Delve into the behind-the-scenes process, sharing insights on idea generation, content creation, and design execution. From brainstorming sessions to final touches, offer an exclusive look at the creative journey



Art of composition

Step into the realm of meticulous craftsmanship. Here, we unveil the artistry behind your newsletter's production. Explore the meticulous process of curating content, refining prose. Readers gain an appreciation for the skillful hands behind the newsletter



The collaborators

Introduce the diverse team of contributors who passionately shape each edition. By acknowledging their dedication, you deepen the reader's connection and offer a behind-the-scenes view of the collective effort driving your newsletter's success

Tips & tricks

Time management

"Break your day into smaller chunks and focus on one task at a time. Take short breaks in between to stay fresh"

Networking

"Attend events, join professional organizations, and connect with others in your field on social media to expand your network"

Communication

"Be concise when communicating ideas, actively listen to feedback, and be open to constructive criticism"

Self-care

"Make time for exercise, healthy eating, and hobbies outside of work to reduce stress and promote relaxation"

Learning

"Attend workshops or conferences, read industry publications, and take online courses to expand your knowledge base"

Goal-setting

"Set clear goals by breaking them down into smaller achievable steps and by celebrating progress"

News examples

New project

"Our company is excited to announce the development of a new project that has been in development for months.

This innovative idea is expected to revolutionize our work"

Newsletter expansion

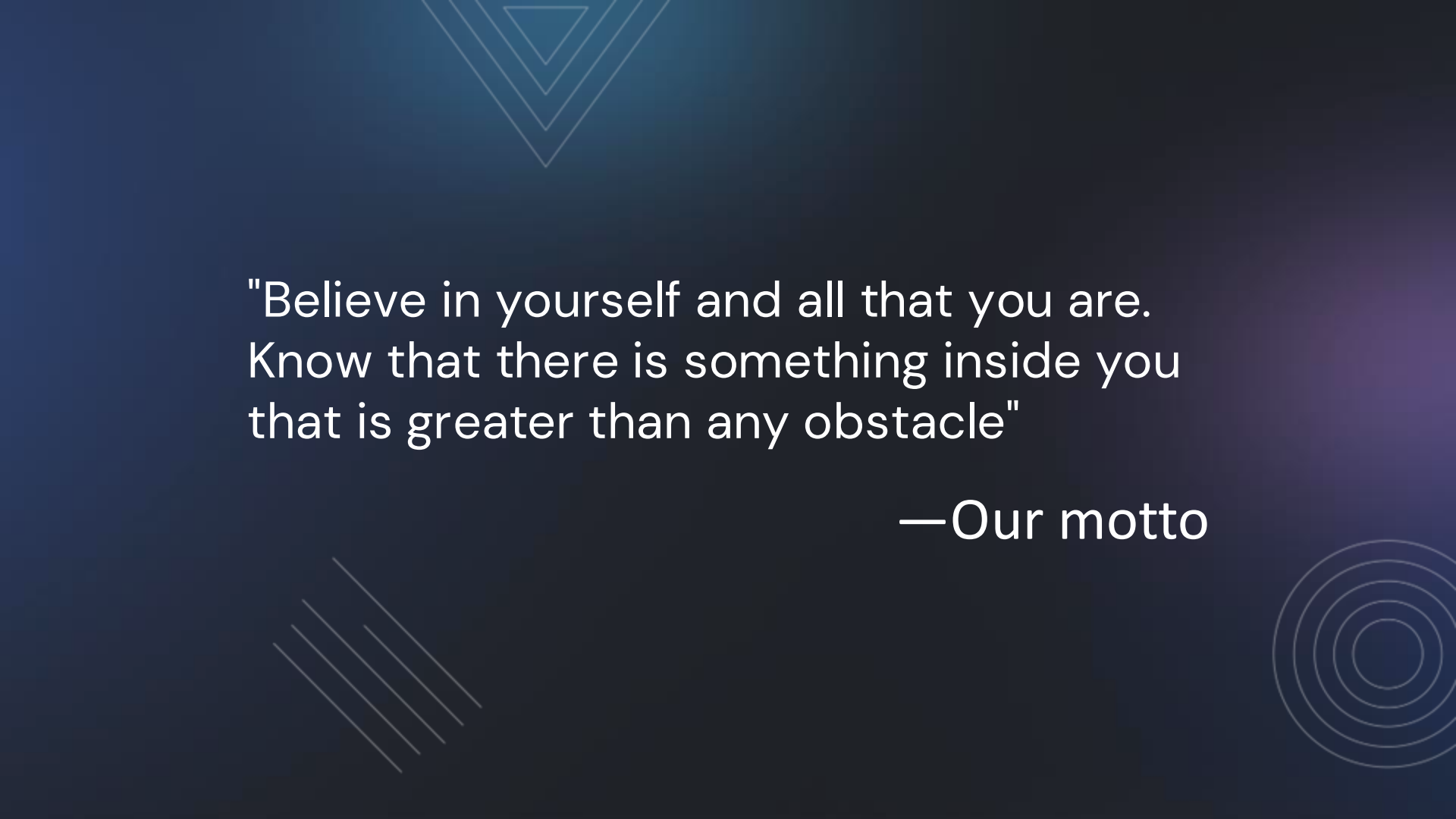
"The reach of our newsletter is limitless! Every day we have more and more subscribers who want to discover everything we have to tell. We even improved the design!"

Award recognition

"Our organization has been recognized for excellence in our field by receiving an award. This recognition reflects the hard work and dedication of all of our amazing collaborators"

CSR

"We have recently partnered with a nonprofit organization to provide support and resources to those in need. We believe it is important to be socially responsible"

The background features a dark blue gradient. At the top center, there is a series of four nested, downward-pointing triangles. In the bottom left corner, there are several parallel diagonal lines. In the bottom right corner, there are several concentric circles.

"Believe in yourself and all that you are.
Know that there is something inside you
that is greater than any obstacle"

—Our motto

April 14

You can insert here the title of the event or a small description

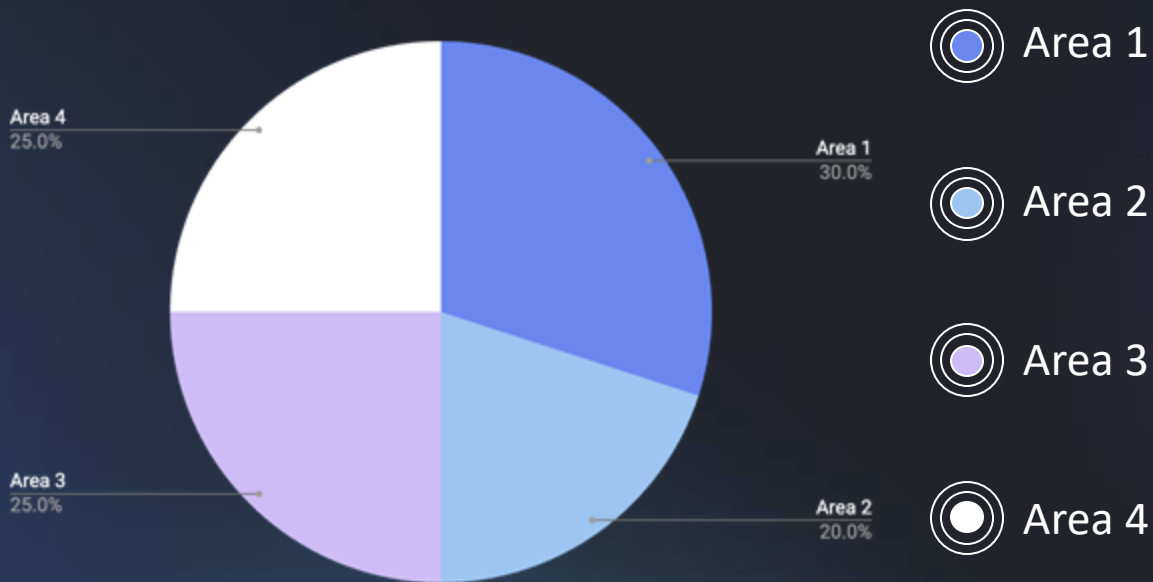
June 6

You can insert here the title of the event or a small description

July 12

You can insert here the title of the event or a small description

What are we going to do next quarter?



Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

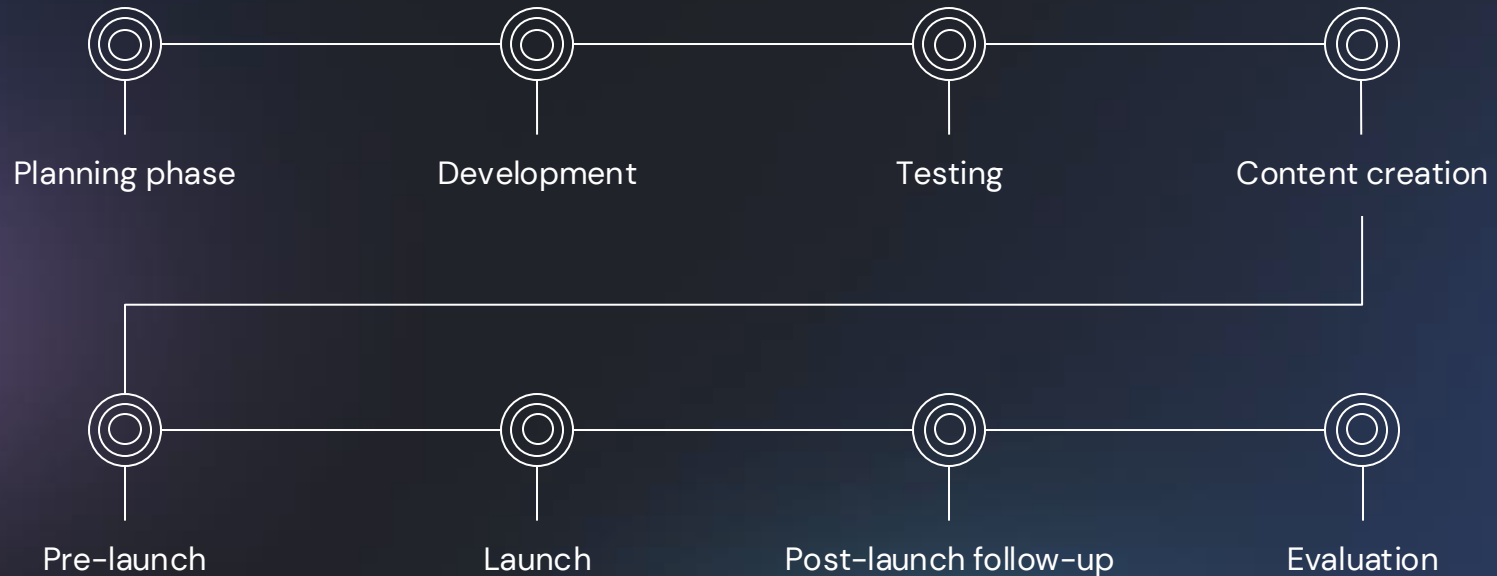
Our ideas

Ideas	Budget	When	Team	Comments	Rating
Idea 1	Budget 1	Insert the date	Team 1	Comment 1	4/5
Idea 2	Budget 2	Insert the date	Team 2	Comment 2	1/5
Idea 3	Budget 3	Insert the date	Team 3	Comment 3	3/5
Idea 4	Budget 4	Insert the date	Team 4	Comment 4	2/5
Idea 5	Budget 5	Insert the date	Team 5	Comment 5	5/5
Idea 6	Budget 6	Insert the date	Team 6	Comment 6	4/5

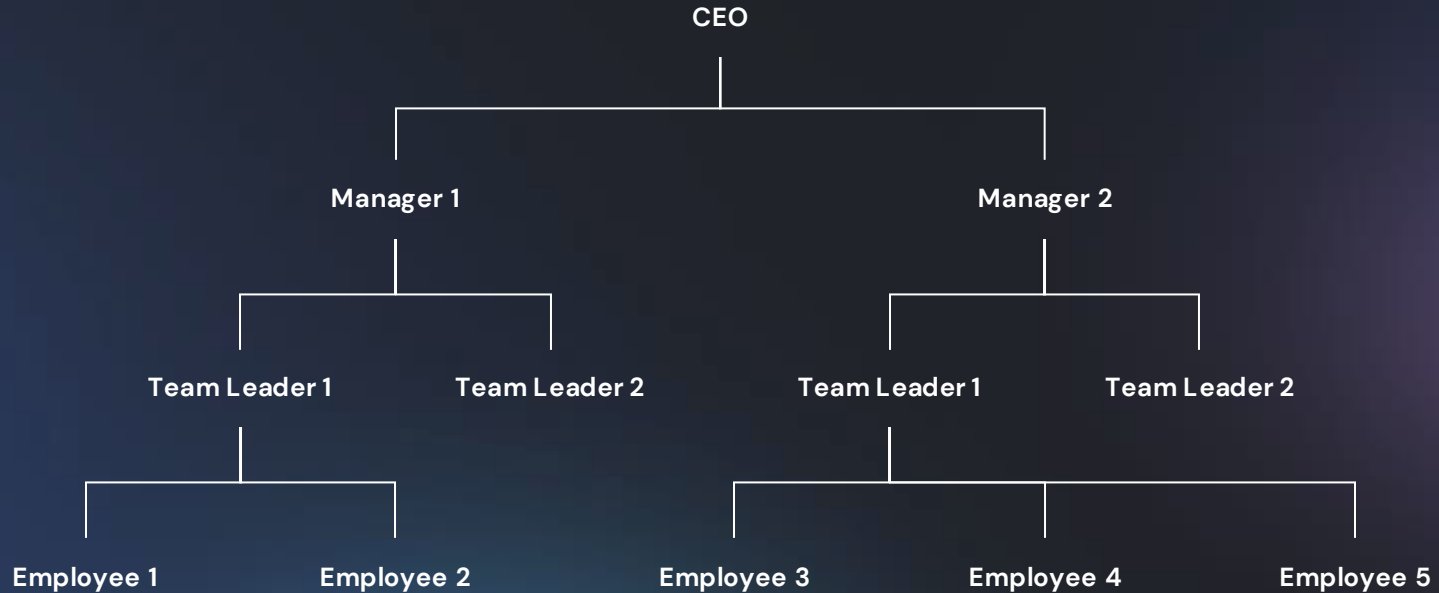
The background features a dark blue-to-purple gradient. On the left, there are several thin, parallel white lines slanted downwards. On the right, there are concentric white circles. At the bottom center, there are nested white triangles pointing upwards.

“Exclusive
and inspiring”

Process for the next project



Organizational chart



Life's moments

Don't let life's special moments slip away—capture and preserve them through photographs. In this newsletter we want to show you these special moments!



Testimonials



"I'm continually impressed by the valuable insights this newsletter provides. It's become a must-read in my inbox"

—Laura Patterson



"The diverse range of topics covered in each edition keeps me engaged and looking forward to more"

—John Nelson



"This newsletter has quickly become my go-to source for thought-provoking content. Kudos to the team!"

—Jane James

Case studies



Campaign objective

Write your campaign objective here. It's important to be concise and clear

23%

Increase in
website traffic

Results

80%

Increase
in sales

10%

Increase
in clicks

Approach

- Developed a comprehensive approach that addressed various aspects of the challenge
- Utilized data analysis to inform decision-making
- Employed cross-functional teamwork for an ideal solution

Key takeaway 1

Partnering with influencers who align with the same values we have

Key takeaway 2

Highlighting the unique qualities of our project/product or idea

Thanks

Do you have any questions?

addyouremail@freepik.com

+91 620 421 838

yourwebsite.com



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- [Gradient grainy gradient background I](#)



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- [Office workers using finance graphs III](#)
- [Front view woman working as economist](#)
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- [Office worker using finance graphs](#)

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DM Sans

(<https://fonts.google.com/specimen/DM+Sans>)

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#9dc5f1

#cdbc5

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Pana



Amico



Bro



Rafiki



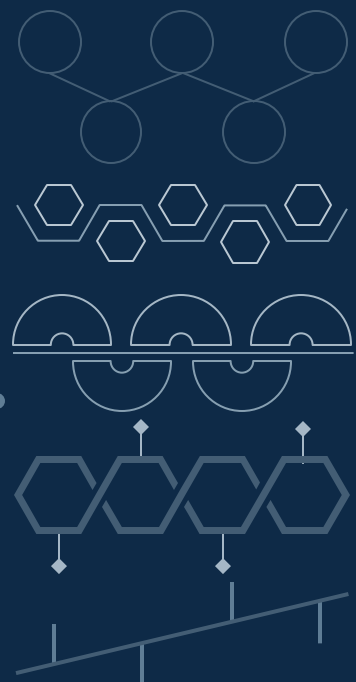
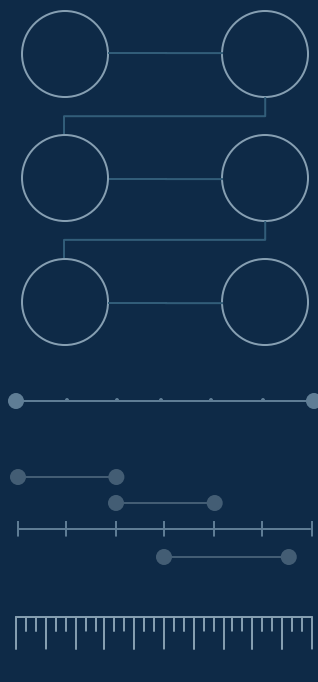
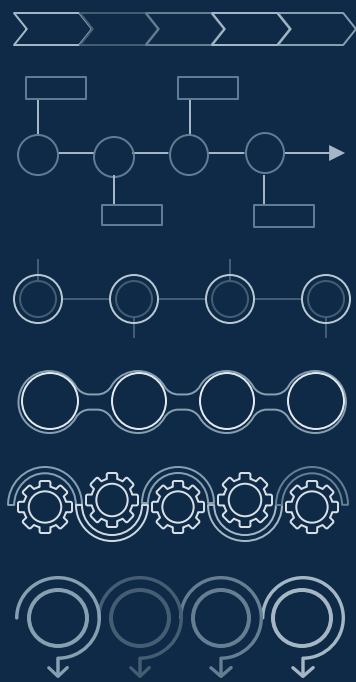
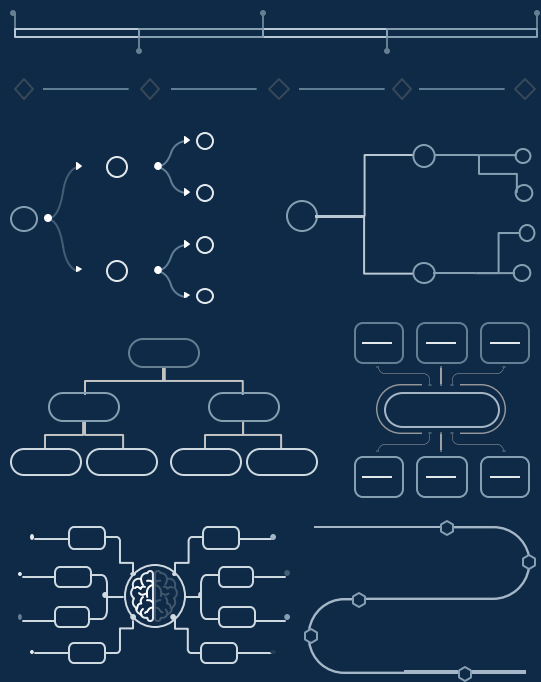
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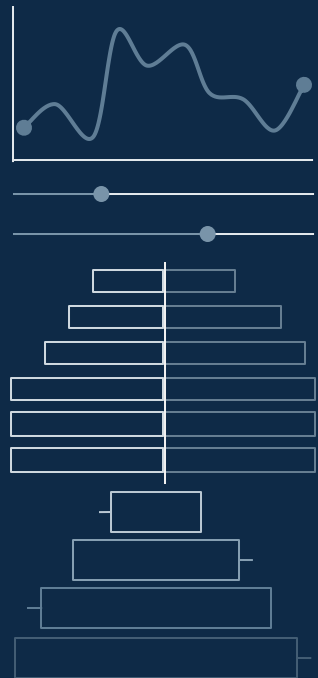
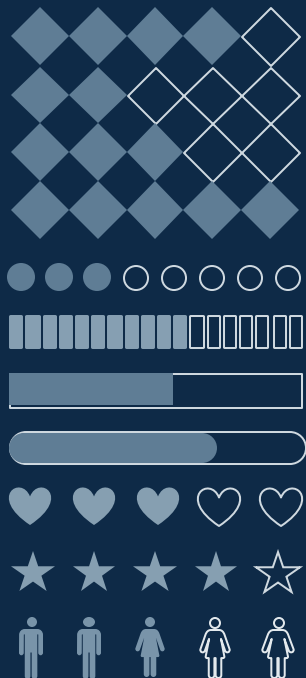
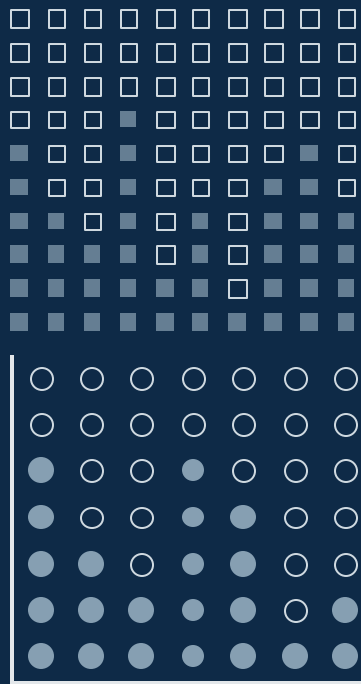




	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
PHASE 1						
Task 1						
Task 2						
PHASE 2						
Task 1						
Task 2						

	JANUARY	FEBRUARY	MARCH	APRIL
PHASE 1				
Task 1				
Task 2				





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