

Repair Report

An innovative technique, capable of rescuing the DNA and creating copies of the plants of Brumadinho, has been helping the rehabilitation of the damaged areas.

July, 2021

What we are doing to repair the environment and for the people. Periodic review of the remediation and development actions performed by Vale in the areas damaged by the rupture of Dam I and in the evacuated territories.





Message of the CEO

Ensuring that everyone work with obsession for safety and focus on people, keeping alive the Vale's purpose to 'improve life and transform the future'. These have been my main goals since I have taken over the company's leadership. Our experience in Brumadinho has led us to a listening work with the communities and also to the employees, boosting a journey of cultural transformation that is making Vale each day more and more safe and devoted to generating value to the people and communities involved in their activities. In the Remediation, this means that we keep working daily to ensure the evolution of our actions and the process of participation of the people impacted, focusing on assisting the people affected, in fully repairing the environment, in the social and economic development of the communities and the return to normality of the evacuated territories. The Full Remediation Agreement, signed this semester, is another step ahead in this journey.

Eduardo Bartolomeo
CEO

Message of the Director

This semester we sealed with the State of Minas Gerais and the Justice Institutions a commitment that we had already assumed internally and for which we have worked since 2019: the commitment to continue endeavoring all efforts towards fully repairing all damages caused to the people and municipalities affected. We recognize the existing difficulties and challenges like the restrictions imposed by the pandemic, and we are aware of the need of continuous improvement in our processes so we can comprehend the dissatisfactions and disagreements and work in search of solutions. Despite the challenges, we have evolved not only in the quantity of the people indemnified and assisted by our actions, but also in the execution of structuring projects that will be capable of helping in the remediation and development of the territories. We have delivered infrastructure projects, renovating and constructing major public equipment for the communities, after a careful listening process. In the evacuated territories, we keep advancing in the construction and execution of the Compensation Plans, also based on dialogue with the residents.



Marcelo Klein
Special Director for Repair and Development

Important to know about the Reparation



Full Reparation Agreement

The agreement executed with Vale, the Justice Institutions and the State of Minas Gerais, on the February 4th, reinforces the commitment to the full remediation of the environmental and social damages resulting from the rupture of the dam B1, in Brumadinho. The mediation process was conducted by the Court of Justice of Minas Gerais by means of the Judicial Center of Solution of Second Level Conflicts and Citizenship. The agreement contemplates socio-economic and socio-environmental remediation projects, to mitigate the impacts of the rupture of the dam on the State and affected regions. We continue determined to fully repair the damages caused and continue to be committed to the individual indemnifications to the affected people, keeping, as a purpose, the contribution to the improvement and development of the communities.

Search support

Vale keeps committed in supporting and improving the search conditions to the Military Fire Department of Minas Gerais. In addition to logistic support to the corporation, field improvements are also performed, like the drainage of the affected areas to avoid the wetting of tailings and opening of new ways to increase the ability to access the area. Together with the fire fighters, the company is studying the material disposed in the region to continue contributing with the search.

Prevention to Covid-19

In function of the pandemic, we are adopting rigid prevention protocols so that we can ensure the continuity of our activities in a safe way to our employees and to the community.

What you will see in the next pages



Evolution of the projects that enhance local vocations and promote the development of the municipalities.



Programs of assistance to the affected people and social development of the communities and evolution of the civil and labor agreements.



Actions devoted to the full recovery of the environment - fauna protection, revegetation, biodiversity care.



Progress of the works in Brumadinho region and deliveries of urban infrastructure equipment constructed or renovated by Vale, focused on the improvement of the quality of life of the communities.



Updating of actions aimed at supporting and enabling the return to normality by the evacuated communities in Barão de Cocais, Conselheiro Lafaiete, Itabirito, Macacos (Nova Lima) and Antônio Pereira (Ouro Preto). In addition to compensation projects focused on the economic sustainability of the municipalities.



Timeline: Monthly highlights

January:



Socioeconomics

Start of the specific training modules of the Project of Territorial Development of Itabirito.



Socioeconomics

Start of technical assistance to the social organizations awarded with the Programa Valorizar.



Socioeconomics

Opening of the Information Point of the Project Córrego do Feijão Território-Parque.



Evacuated Territories

Conclusion of the containment of River Tabuleiro in Antônio Pereira.



Evacuated Territories

Beginning of the renovation of State School Daura de Carvalho Neto, in Antônio Pereira - Ouro Preto.

February:



Infrastructure

Official delivery of the daycare center and Family Healthcare Unit of Parque da Cachoeira to the municipal management.



Infrastructure

Official delivery of the daycare center of Cohab to the municipal management.



Social

Delivery of the Coexistence Center for Families of the Victims of the B1 Dam Rupture, in Brumadinho.



Evacuated Territories

Public inquiry for pavement with the community of São Gonçalo do Bação, in Itabirito.

March:



Infrastructure

Beginning of the works of the Memorial to the victims of the rupture of the Dam 1.



Infrastructure

Completed the revitalization and enhancement of the street lighting in Pires.



Socioeconomics

Closing of the Project of Competitiveness Strength of the Private Sector of Tourism – Veredas Circuit.



Environment

Start of planting the seeds developed with DNA-rescuing technology in partnership with the UFV.



Social

Milestone reached of more than 10 thousand people involved in indemnification agreements executed between civil and labor.



Socioeconomics

Graduation of the last capacitation team of the Project Yara Tupynamba.



Socioeconomics

Launching of the Social Innovation Horizon Project.

May:



Social

Delivery of 3 thousand new equipment to 76 Healthcare Basic Unit of eight municipalities evacuated and the trough of the Paraopeba River.



Social

Launching of the program of Social Participation Strengthening in 10 evacuated municipalities and the channel of the Paraopeba River.



Evacuated Territories

Beginning of the renovation of the healthcare center of Engenheiro Corrêa, in Ouro Preto.



Evacuated Territories

Conclusion of the new preventive relocations in Antônio Pereira.



Evacuated Territories

Beginning of the well interconnection works for water security, in Barão de Cocais.



Evacuated Territories

Beginning of the renovation in the sports court of the Municipal School Guilherme Hallais França, in Itabirito.

June:



Infrastructure

Conclusion of the pavement, drainage and signage of the road that connects Pontilhao to Alberto Flores.



Infrastructure

Conclusion of the daycare center in the Palhano community.



Socioeconomics

Beginning of the capacitation, mentoring and technical advisory of the Project Horizonte.



Socioeconomics

Beginning of the Community Equipment Project – Project Córrego do Feijão Território-Parque.



Evacuated Territories

Conclusion of the first social activities cycle offered within the Remediation and Compensation Plan of ZAS, in Barão de Cocais.



Evacuated Territories

Start of the renovation of the soccer field in Macacos.



Evacuated Territories

Roof, sports court renovation and construction of locker room at the Municipal School Ribeirão do Eixo, in Itabirito.



Evacuated Territories

New phase of the Compensation and Development Plan that has been prepared to Antônio Pereira.



Evacuated Territories

Beginning of the renovation of CRAS in Antônio Pereira.



Progress of the actions until July, 2021

Ground Zero Pilot Project – Brumadinho



Multi-sport Gym Complex – Brumadinho



Reform of the Municipal Cemeteries – Brumadinho



Reform of APAE – Itabirito



Renovation of the Environmental Education Center (CEA) – Itabirito



Revitalization of São Sebastião Chapel – Macacos



Renovation of the 16 municipal schools – Brumadinho



Construction of the water pipeline of Pará de Minas



Renovation of the Municipal School Antônio Toledo Sobrinho – Itabirito



Drainage of São João River – Barão de Cocais



Daycare Center at Cohab – Brumadinho



Palhano Daycare Center – Brumadinho



Conclusion of the bridge and walkway Alberto Flores – Brumadinho



Conclusion of well drilling, distribution line and water treatment station in Parque da Cachoeira – Brumadinho



Conclusion of drainage and street pavement in Tejuco – Brumadinho



Conclusion of the water pipeline in Córrego do Feijão – Brumadinho



Containment of Tabuleiro River – Ouro Preto



Pavement, drainage and signage of the road that connects Córrego do Feijão to Alberto Flores Avenue



Implementation of Street Lighting in Pires – Brumadinho



Nursery and Health Unit – Parque da Cachoeira – Brumadinho



Construction of new building for the Municipal School Rubem Costa Lima – Macacos



Project Yara Tupinambá – Brumadinho



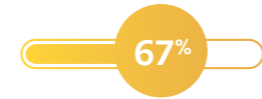
Construction of the municipal daycare center – Mário Campos



Service Center to the Special Needs Student at Bela Vista – Brumadinho



Construction of Family Healthcare Unit – Mário Campos



Installation of water filters for the riverside communities and rural producers



Reform of the Healthcare Center Dona Manoca – Ouro Preto



Reform of the CRAS – Ouro Preto



Reform of the State School Daura de Carvalho Neto – Ouro Preto



Sewage Treatment System in Pires – Brumadinho



Território Parque (Central Square and Community Space) – Córrego do Feijão – Brumadinho



Agriculture Development Program in Brumadinho and Mário Campos – Brumadinho



Reform of Praça da Lagoa – Barão de Cocais



Pavement, drainage and signage of Amianto Street



Water security measures – Barão de Cocais



Memorial in Honor to the Victims – Córrego do Feijão – Brumadinho



Project Horizon – Evacuated Territories



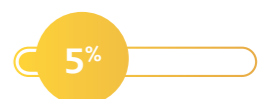
Reform at the sports court of Municipal School Guilherme Hallais França – Itabirito



New Municipal School Meridional – Conselheiro Lafaiete

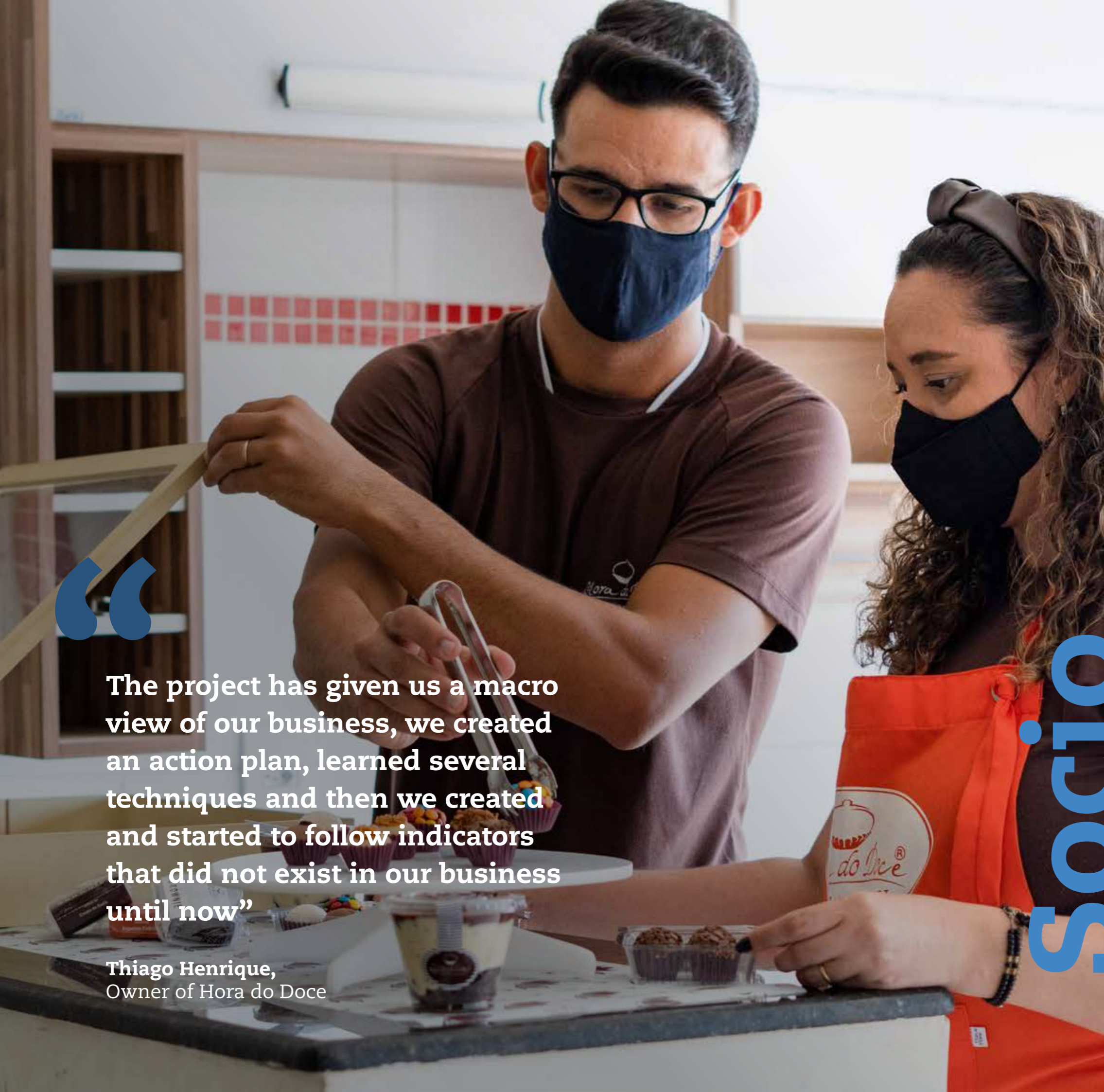


Reform of the soccer field – Macacos



Roof, reform in the sports court and construction of locker-room at Municipal School Ribeirão do Eixo – Itabirito





“

The project has given us a macro view of our business, we created an action plan, learned several techniques and then we created and started to follow indicators that did not exist in our business until now”

Thiago Henrique,
Owner of Hora do Doce

Socioeconomics



We continue to be committed in contributing for the economic development

of the communities impacted by the rupture of the dam and evacuation of the territories. Through training projects, support to entrepreneurship and jobs generation, we are supporting the municipalities by reducing the local economic dependence with regards to mining activities, strengthening the local vocations and encouraging new business fronts that contribute to increase the population's family income.

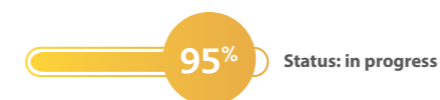




Hora do Doce
Instagram Profile:
@hora_do_doce

Valorizar Brumadinho Program

The 30 social organizations that had their projects selected in the public notice 2020 of the Valorizar Brumadinho Program have already demonstrated good results. With the financial resources received and the technical assistance that continues being offered, including capacitation, training and articulation of partnerships for the disclosure of products, the organization is managing to get stronger and applying solutions that optimize the social projects.



The São José Band is an example. Created in 2011, the social organization supports residents of the rural communities of Brumadinho through music. Ranked 4th in the Music and Art category, the organization has applied the digital model of lives and on-line classes to continue the work even during the pandemic. The social networks of the project were repositioned and started to assist students of other states.

Visit the channels and get to know the work of São José Band.

 @bandasaojose



Strengthening of the tourism and jobs generation

Fifty tourism entrepreneurs in Brumadinho, Igarapé, Juatuba, Mário Campos and São Joaquim de Bicas completed the cycle of the Project of Strengthening of Competitiveness of the Tourism Private Sector, held in partnership with Veredas Circuit.

Even with a 37.9% drop in the performance of the industry of tourism in Brazil (IBGE) last year, the entrepreneurs assisted by the program have recorded an average growth of more than 4% in annual billing and 18% in the number of job posts.

It was 4.1 thousand hours of consulting, ten tourist routes of experience created, 1,250 professional pictures taken and 190 people involved in the collective qualifications, thus contributing to the improvement of the services, the enhancement of the management and strengthening of the image of the region as competitive tourist destination.



Our dream has started to come through and, brick by brick, our history is getting a new chapter. The consulting has started, and the information has become clearer so we could get more confidence to, during the pandemic, put in practice the realization of a big dream that was the construction of our kitchen.”

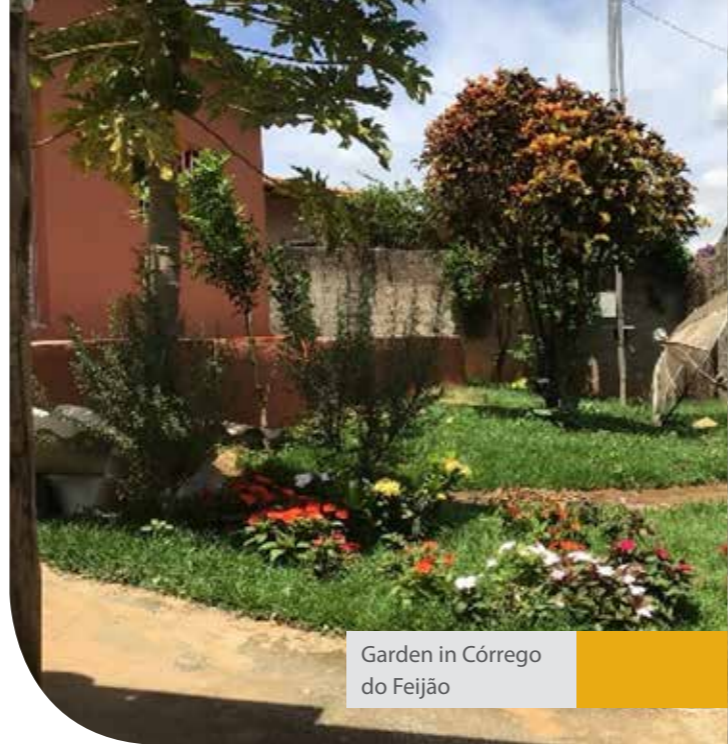
Thiago and his wife Daiane, owners of the company Hora do Doce in Juatuba



São José band

Project Yara Tupynambá

In its final phase, the project Yara Tupynambá has already delivered 230 gardens and has 201 residences completed or in phase of completion. There was a delay in the works due to the pandemic and the new forecast is that by the end of August all renovations will be finished.



The work conducted by the Institute Yara Tupynambá has qualified 144 residents of Córrego do Feijão and Parque da Cachoeira, leading to more employability to these people. In parallel, the project is renovating 230 residences and has executed 230 gardens, both chosen by the own students.

Learn more about the project:



The activities related to the Community Equipment, started in Córrego do Feijão, have the objective to offer management tools and use of the spaces that will be delivered by Território-Parque. In the next six months, capacitation workshops will be held for the collaborative construction of the business plans and management models of the Community Market and the Center of Culture and Craftsmanship, structures that, shortly, will be part of the life of the community.

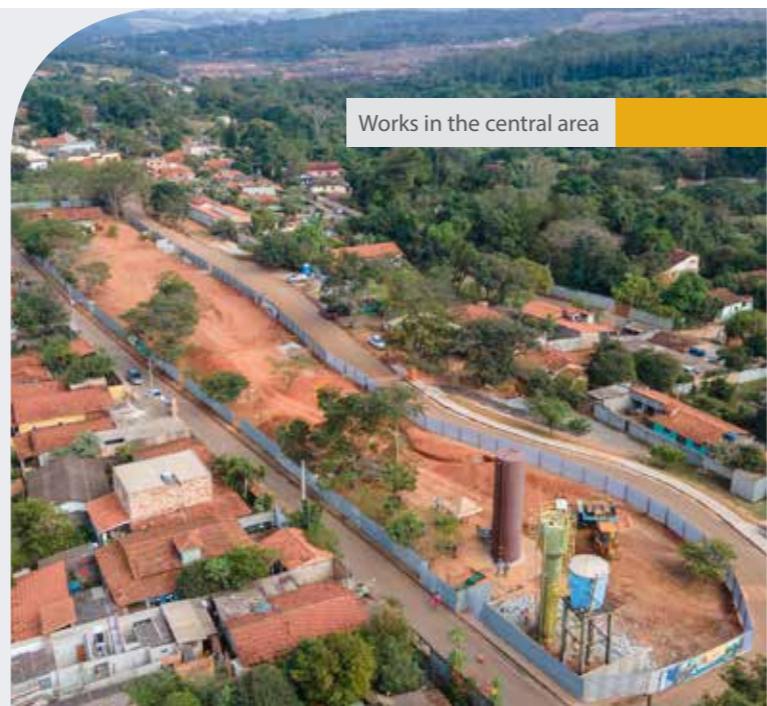
In these spaces will work the local social businesses that are being developed by the Project of Social Community Entrepreneurship performed in partnership with the Institute Kairos. Since August 2020, residents of Córrego do Feijão have participated of the activities of the project, that includes workshops and capacitation courses, among other activities that aim at supporting the community's organization.

Launched in December, 2019 the project Território-Parque wants to leave a legacy to the community of Córrego do Feijão by means of actions of improvement of the infrastructure, economic reactivation, development of local tourism and care with the memory of the victims of the rupture of the Dam I.

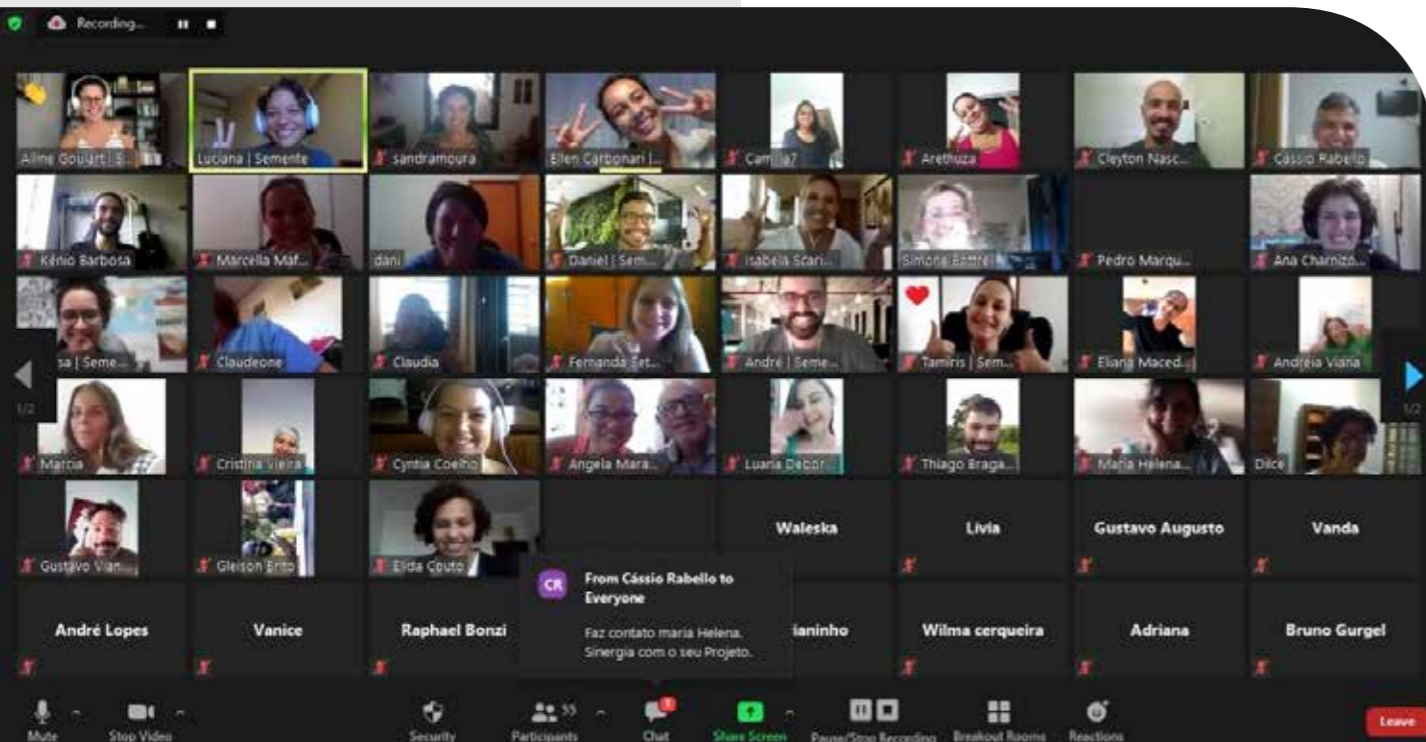


Córrego do Feijão

By means of projects and programs in different areas, Vale keeps working towards the recovery and resignification of Córrego do Feijão. The works of the Project Território-Parque are in progress for the implementation of the structures of the central area.



Capacitation, innovation and income generation in the evacuated territories



Project Horizon On-line meeting

Since the launching of the Project Horizon, in March, 2021, 141 entrepreneurs of Itabirito, Barão de Cocais, Nova Lima, Ouro Preto and Santa Bárbara have been qualified and 78 projects were selected to participate of a technical advisory, workshops and mentoring cycle that is already in progress.

The Project Horizon is held in partnership with Semente Negócios, and it seeks to contribute to the economic diversity and jobs generation, supporting and capacitating the residents in the creation of innovative businesses and with positive socio-environmental impact.

Next Steps



In October 2021, it will start the acceleration phase of the social businesses that stand out the most during the advisory, mentoring and workshops cycle. The acceleration will occur for 12 months, where the projects selected will continue being capacitated and will receive a seed-capital of up to R\$50 thousand to be invested in the business.

Impulse to the Entrepreneurship

About 35 individual entrepreneurs and 14 associations of Itabirito have participated, since January, of the cycles of formation and inspiration of the Program of Territorial Development and Social Transformation of Itabirito. The initiative is a partnership with Raizes Turismo, Empreendedorismo e Desenvolvimento Sustentável and was designed to enhance the view of independence from mining, boosting the prominence and local entrepreneur culture of the city. The project works directly in the qualification of potential local entrepreneurs, by means of three work fronts: Creative Economics, Agroecology and Institutional Strengthening.



In summary, it has been very pleasant and very productive to me. The agroecology course has given me clarity on some questions and brings a lot of knowledge. The management course has opened my mind to some very important questions.

Isis Luna Matos



On-line meeting of the Project of Territorial Development and Social Transformation of Itabirito.



To me it makes sense, I am learning a lot, both with the instructors and the colleagues, and this exchange is very cool. I think it is strengthening the network.”

Fabricio Caetano

Next Steps



The 15 business that have stood out the most during the process of formation and capacitation will go through a ten-month duration incubation process.



After the rupture, I ended up becoming a leadership in the region, but without understanding very well how this works. I want to learn about public policies, social construction, how to search for improvements to the community as a whole. If it improves to me, it improves to everyone. The power is in the people's hands, and we need to know how to get this."

Roziane Duarte, community leader in Angueretá, Curvelo.

Social



Committed to the full reparation of the affected communities, Vale has as focus the people.

Projects and initiatives have been developed since 2019 based on participative dialogue and active listening. The company keeps the commitment to indemnify the people and territories in a fair and fast way.



Embroidering Stories



It is not only a random embroidery, but another opportunity that we have to return to the past, at the time of our childhood, and be able to share.”

This is how the teacher Andrea Campos, resident of Brumadinho, talks about her participation in the project Semeando Esperança. She learnt about the opportunity through her mother, Isabel Souto, who has already participated of the virtual workshops of free embroidering and joined the first class of 2021, in March, together with another 19 people.



It has been very good. I am learning something that I like and did not know much about, and dedicating part of my time to weaving our life story, designing in the mandala a little of our report and learning how to embroider with each situation.”

In July, new students started to integrate the project, that already counts on 47 participants, divided into groups, in accordance with the level of learning, with weekly on-line classes.



Andrea and her mother, Isabel, are students of the Semeando Esperança project.

Indemnifications

Up to the moment, Vale has already executed more than 5.1 thousand indemnification agreements, between civil and labor, involving 10.5 thousand people. The company continues with its commitment to indemnify the affected people in a fair and fast way.

Emergency Payment

According to the agreement executed on 02/04/2021 with the Justice Institutions and the Government of Minas Gerais, Vale will keep the emergency payment to the affected people – people resident in Brumadinho, or that live one kilometer way from the channel of Paraopeba River, until Pompéu, in the same current models, until August 2021, non-renewable.

Under the terms of this agreement, since February of this year, it is in progress the transition period for structuring, implementation and management of the Program of Income Transfer by the Justice Institutions, that will replace the emergency payment.

Once the transition period is completed, Vale will deposit, in court, the amounts due.

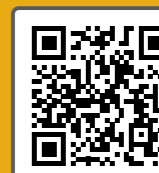
Memorial

It is in progress the works of the project Memorial, that will honor the 270 victims of the rupture of the Dam in Brumadinho. The project, forecasted to be completed in the second semester of 2022, is the result of the dialogue and the expectations of the family members, represented by the Avabrum (Association of Family Members of the Victims and People Affected by the Rupture of the Dam Mina Córrego do Feijão Brumadinho).

Located in the community of Córrego do Feijão, the Memorial will occupy an area of 5.5 hectares and will have three theme spaces (Pavilion, Memory Space and Testimony Space) connected by a crack. At the end of the crack, there will be an observatory with view to the area of rupture.

The conclusion of the works is forecasted to the second semester of 2022.

Learn more about the project



Memorial works in honor of the victims



Coexistence Center



Access and learn more

Coexistence Center

In February, the company delivered to the Association of the Family Members of Victims and People Affected by the Rupture of the Dam of Córrego do Feijão – Avabrum, a Coexistence Center located in Brumadinho’s central area. A house, chosen by the association, was totally renovated and transformed with rooms of individual and collective assistance, play space with monitors for children, leisure area, community vegetable garden and academy. The space was thought by Avabrum so that the family members of the victims can get together to make exchange movements, mutual help, establish connections and attend courses and workshops devoted to resignification of pain, like art-therapy, other Supplementary Integrating Practices (PICs), like yoga, message therapy and acupuncture.

Develop to Strengthen

“I want to learn about public policies, social construction, how to look for improvements for the community as a whole. If it improves to me, it improves to everyone.”

tells us Roziane Duarte, vice-president of the Community Association of the Residents and Friends of Angueretá, district of Curvelo.

Roziane and other 173 community leaders from ten municipalities have enrolled to attend the Program of Strengthening of Social Participation. The initiative, launched in May by the company, has the objective to contribute for the strengthening of the local dialogue forums and boost the social responsibility and transparency in the communities affected by the rupture of the dam and evacuated territories.

The program is 12-month long and counts on a cycle of capacitation, conducted by experts in planning and public management, with focus on the citizen participation, social control, participative monitoring, transparency and rendering of accounts.



I expect to contribute to the growth of our district. The power is in the people’s hands and we need to know how to get this.”

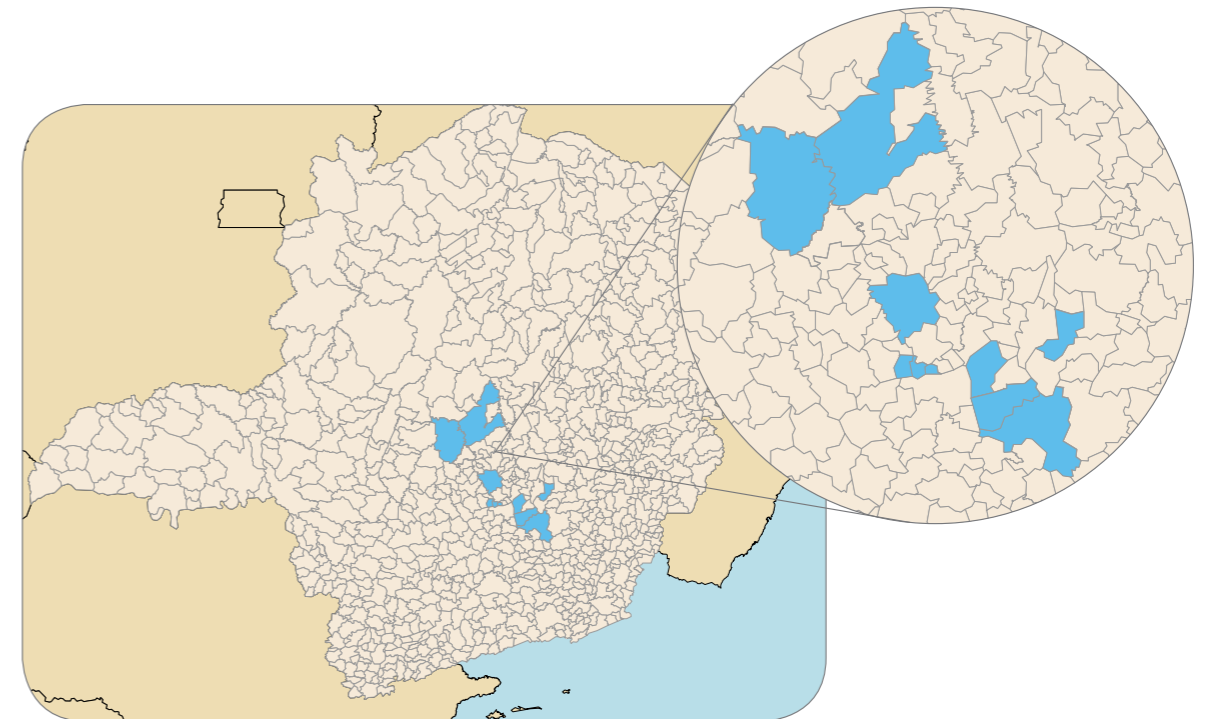
completes Roziane.

Ten municipalities receive the program:

- Barão de Cocais
- Curvelo
- Esmeraldas
- Igarapé
- Itabirito
- Mário Campos
- Nova Lima
- Ouro Preto
- Pompéu
- São Joaquim de Bicas



Roziane Duarte, community leader in Angueretá, district of Curvelo



Full Assistance

In order to be able to plan the future facing the new economic and socio-environmental conditions, the people indemnified have access to the psycho-social, financial education, directions for purchase of properties and support for the productive resumption by means of the Program of Full Assistance to the Affected People (PAIA). More than 3.3 thousand people have already been assisted by the program, which is voluntary and free.



Support to basic health



This is a program that has really brought effectiveness in what was proposed to us. In addition to equipment and capacitation actions, it supports the management by means of geo-referencing, with which we can easily identify the epidemiologic profile of the city, and from there, trace goals and actions that will better assist our municipalities.”

affirms the Municipal Health Secretary of Paraopeba, Márcia dos Anjos Ferreira Lopes.

The Healthcare Cycle has arrived to 15 municipalities impacted by the rupture of the Dam I and evacuated territories. Since 2019, when it was started in Brumadinho, Mário Campos and Sarzedo, the program has contributed to the strengthening of the Basic Attention Network where it operates. There are already 1,255 healthcare professionals trained, more than 4.6 thousand equipment donated and 143 Basic Healthcare Units (UBS's) assisted.

Territories where the Health Cycle operates

- Brumadinho
- Mário Campos
- Sarzedo
- Itabirito
- Barão de Cocais
- Inhaúma
- Papagaios
- Pequi
- Nova Lima (Macacos)
- São Joaquim de Bicas
- Paraopeba
- Pará de Minas
- Pompéu
- Fortuna de Minas
- Morada Nova de Minas

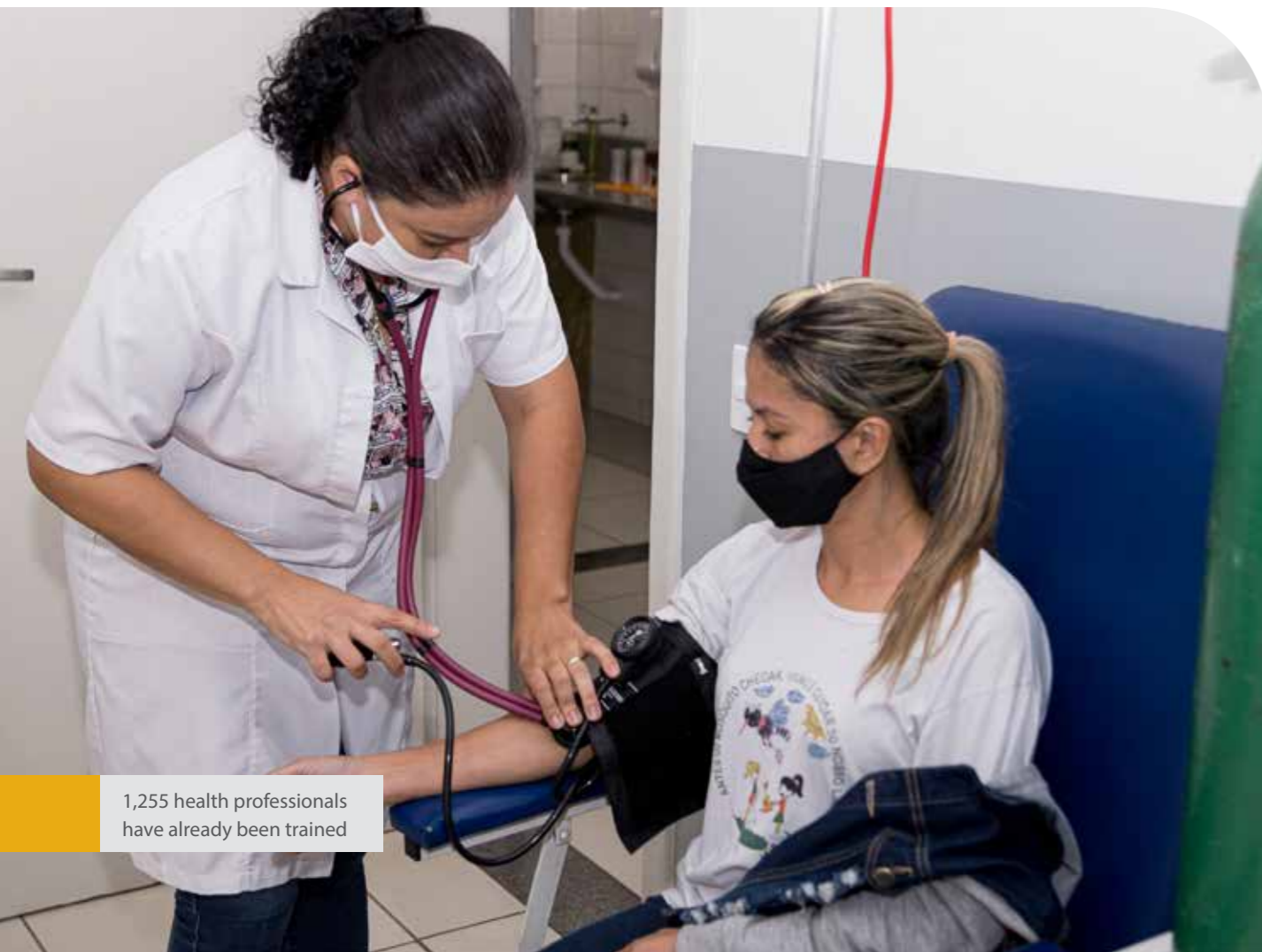


Gabriela Dias has used the services of the LGBTQIA+ Centers of Attention since its inauguration.

Specialized Assistance

Through the program, Vale is supporting in Pará de Minas the Project Transformation, coordinated by the Municipal Secretary of Health, that has a Healthcare Attention Center LGBTQIA+. The center assists around 140 patients per month, like Gabriela Dias, who tells us that her relationship with the Basic Health Attention has changed a lot. “It is a privilege to count on professionals who assist us and welcome us like this”, she affirms.

Gabriela attends the space weekly for the realization of hormone treatment, psychological follow-up and assistance for the change of her name or record. The Healthcare Cycle will support the creation of a portfolio that will be used in the process of articulation with local companies and institutions, aiming at improving the employability of the LGBTQIA+ public. Those who adhere to the proposal will be offered formations on the theme and granted the “LGBTQIA+ Friendly” company seal.



1,255 health professionals have already been trained

Health Cycle X-ray

Know the numbers so far:



In May and June, 1,3 thousand new equipment was delivered to eight municipalities



1,255 healthcare professionals trained in the themes of attention, prevention and promotion of health.



631 formation hours



About 4,612 equipment delivered among items for assistance, like oximeters, vaccine boxes, dental equipment, electrocardiographs, notebooks and furniture.



127 workshops already held.



143 Healthcare Basic Units (UBSs) assisted.



108 Young Builders in Healthcare trained.



“

The project DNA Rescue involves the anticipation of growth of these plants, the flowering and fruiting of these species in the field. Places where the fauna and flora are returning and performing their role of preservation of the environment.”

Raul Firmino dos Reis,
Vale's Environmental Analyst.

Environment



Environmentally repair the affected territories

The recovery of the degraded areas in the basin of Paraopeba River, in function of the rupture of the dam B1 is one of our commitments. In this chapter, you will see a little of the advances in the last semester.

Project DNA Rescue

Four pilot areas in the region of Brumadinho have received, in the first semester, the seeds developed by researchers of the Federal University of Viçosa (UFV). These plants were created from the rescue of the DNA of the native forest species, an unprecedented technique in Brazil, that helps to accelerate the process of rehabilitation of the vegetation affected.

During last year, it was rescued the DNAs of important species for the structure of the forests of the region, like Jacarandá Caviúna, Ipé Amarelo, Braúna and Jequitibá. The seeds, that would normally take up to eight years to flourish, go through this process in a period from 6 to 12 months only.

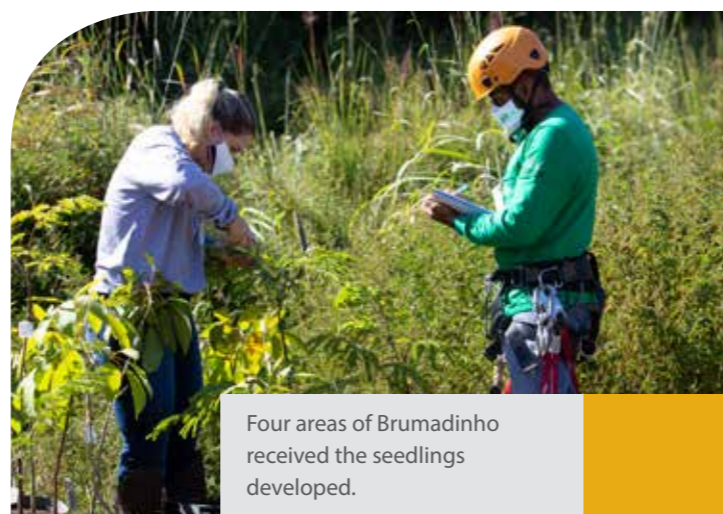


Gleidson dos Santos, professor of the Department of Forest Engineering of the UFV (DEF/EFV).

This work involves the anticipation of the growth of these plants, the flourishing and fruiting of these species in the field. Places where the fauna and flora are returning and performing their role in the preservation of the environment.”

explains Vale’s Environmental Analyst, Raul Firmino dos Reis.

The work was performed with the genetic material of 10 plants of five different species, prioritizing those endangered species and protected by law. The process takes place as of the collection of branches from the parent trees that have gone through a process of grafts. From now on, these seedlings will be periodically monitored.



Four areas of Brumadinho received the seedlings developed.

Entities Involved

- UFV (Federal University of Viçosa)
- SIF (Federal Inspection Service)

Watch the video and learn more about the replanting.



Information at your fingertips

We launched in June two sections in the Remediation website, with information related to the monitoring activities of Water and Biodiversity (fauna and flora).

This initiative has the objective to give more transparency to the processes and allow a better follow-up of the works developed by Vale in the environmental remediation.

In these pages, you will know how the monitoring works of Water and Biodiversity are done, in addition to the results achieved until now.



Automatic Monitoring Station

Below, some information that you will find in these pages:

Water

- Types of monitoring;
- Places of monitoring;
- Parameters analyzed: concentration of metals and turbidity;
- River behavior: dry period x rainy period.
- Inspection;
- Results.

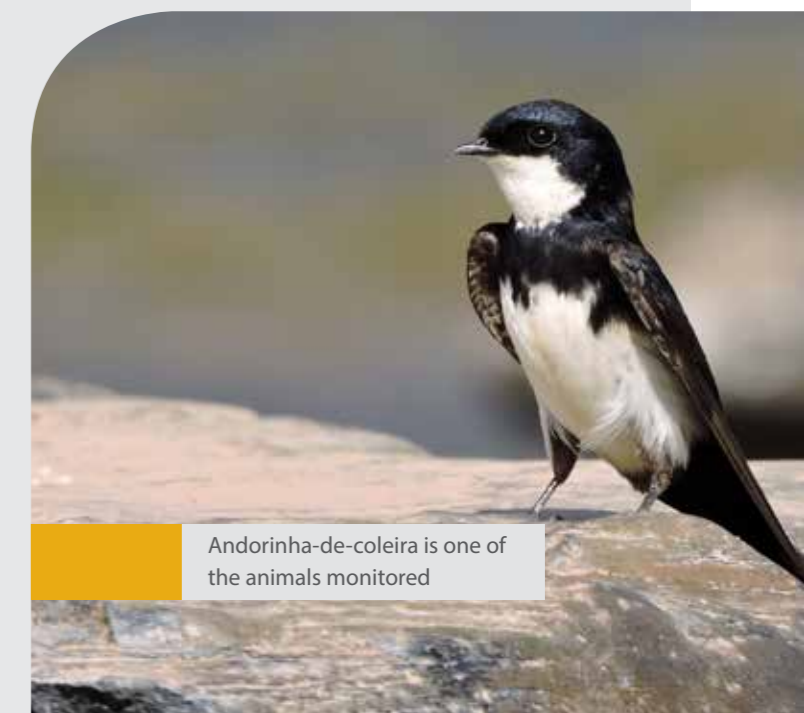
Bio-Diversity

- Area studied;
- Difference between the monitoring: aquatic biodiversity x terrestrial biodiversity;
- Inspection;
- Partners

Water Monitoring



Bio-Diversity Monitoring



Andorinha-de-coleira is one of the animals monitored

Water Distribution

The supply of potable water by Vale to the people that was dependent on water collection of Paraopeba River in the section between Brumadinho and the Hydroelectric Power Plant of Retiro Baixo, in Pompéu, is ongoing.

The water is distributed for domestic use and for the continuity of the rural activities or irrigation and consumption of the animals. Up to the moment, it has already been distributed:



Potable water delivery

Human consumption and domestic use

247.9 million liters

Irrigation

520.7 million liters

Vale's Supply Stations

12.4 million liters

Animal Consumption

426.6 million liters

* Data until 06/14/2021

Geotechnical security at Córrego do Feijão mine

The dams Capim Branco, at Jangada Mine and Menezes II, at the Córrego do Feijão Mine, located in Brumadinho have achieved the positive Statements of Stability Condition (DCE) and were removed from level 1 of the Action Emergency Plan of Mining Dams (PAEBM). These structures have gone through works in the last two years for the elevation of security factor and keep being monitored by Vale and inspected by independent auditors.

With these two statements, in addition of the positive DCE of dam B6, achieved in September 2020, there is currently no geotechnical structure in alert level in the mines of Córrego do Feijão and Jangada.



Menezes II

Waste Removal

Waste removal is fundamental to support the searches of the firemen and for the environmental recovery of the impacted areas. After the inspection and clearance of the Fire Department, the waste is disposed in areas within the unit of Córrego do Feijão for later definitive disposal in the pit. Before the final destination, it also goes through the screening process to separate waste like metals, rubber and wood.

Volume Leaked:

Around 9 million m³ (estimate).

Volume Handled:

3.5 million m³ (36% of the total).



Waste removal, to the right and to the left, channel for water deviation.

Animals will be treated and reintegrated to nature or donated to new owners

Vale keeps eight farms for identification, care and shelter of approximately 2,500 domestic, production or wild animals. The structures are in Brumadinho, that also counts on a veterinarian hospital, in addition to Macacos, Itabirito, Itabira and Barão de Cocais. The treatment and care of the animals is done following sanitary and management protocols recommended by the Regional Board of Veterinarian Medicine, by the Federal Board of Biology, by the Federal University of Minas Gerais and relevant environmental entities (IMA, IEF, IBAMA, among others) and audited by independent company designated by the Public Prosecutor's Office of Minas Gerais. In 2021, 40 dogs and cats were adopted.

With the presentational events for adoption suspended, on account of covid-19, the site "Take me Home" received around 20 thousand visits, demonstrating to be an important channel for the success of the adoptions.

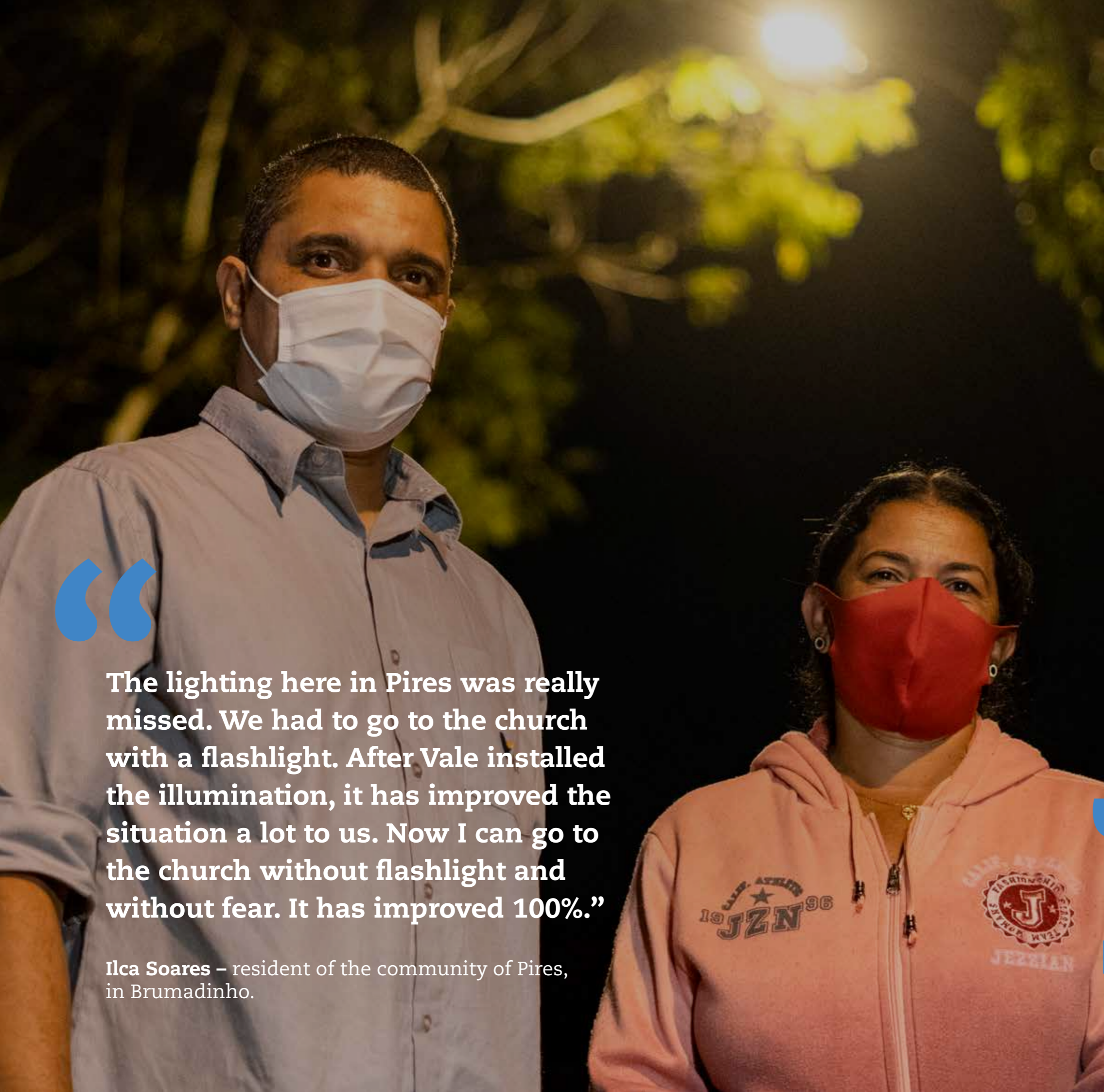
Around 400 animals are still waiting for a new home, and it is possible to see them by the website: www.vale.com/melevapracasa.

Other 48 wild animals impacted by the rupture found in of work areas or in situation of risk in the communities were reintegrated to nature during the last two years. They were clinically treated, welcomed and rehabilitated before returning to their natural habitat. The action is part of the Plan of Fauna Protection presented by Vale and approved by the competent public entities.

Or scan the QR Code



Dog Francisco took joy to the family of Gabrielle Dias

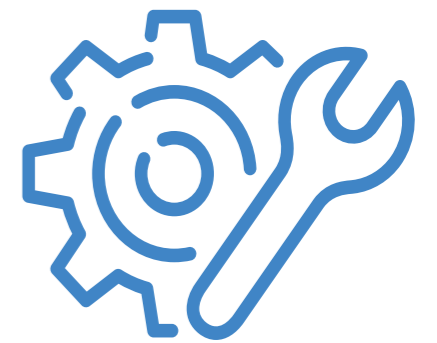


“

The lighting here in Pires was really missed. We had to go to the church with a flashlight. After Vale installed the illumination, it has improved the situation a lot to us. Now I can go to the church without flashlight and without fear. It has improved 100%.”

Ilca Soares – resident of the community of Pires, in Brumadinho.

Infrastructure



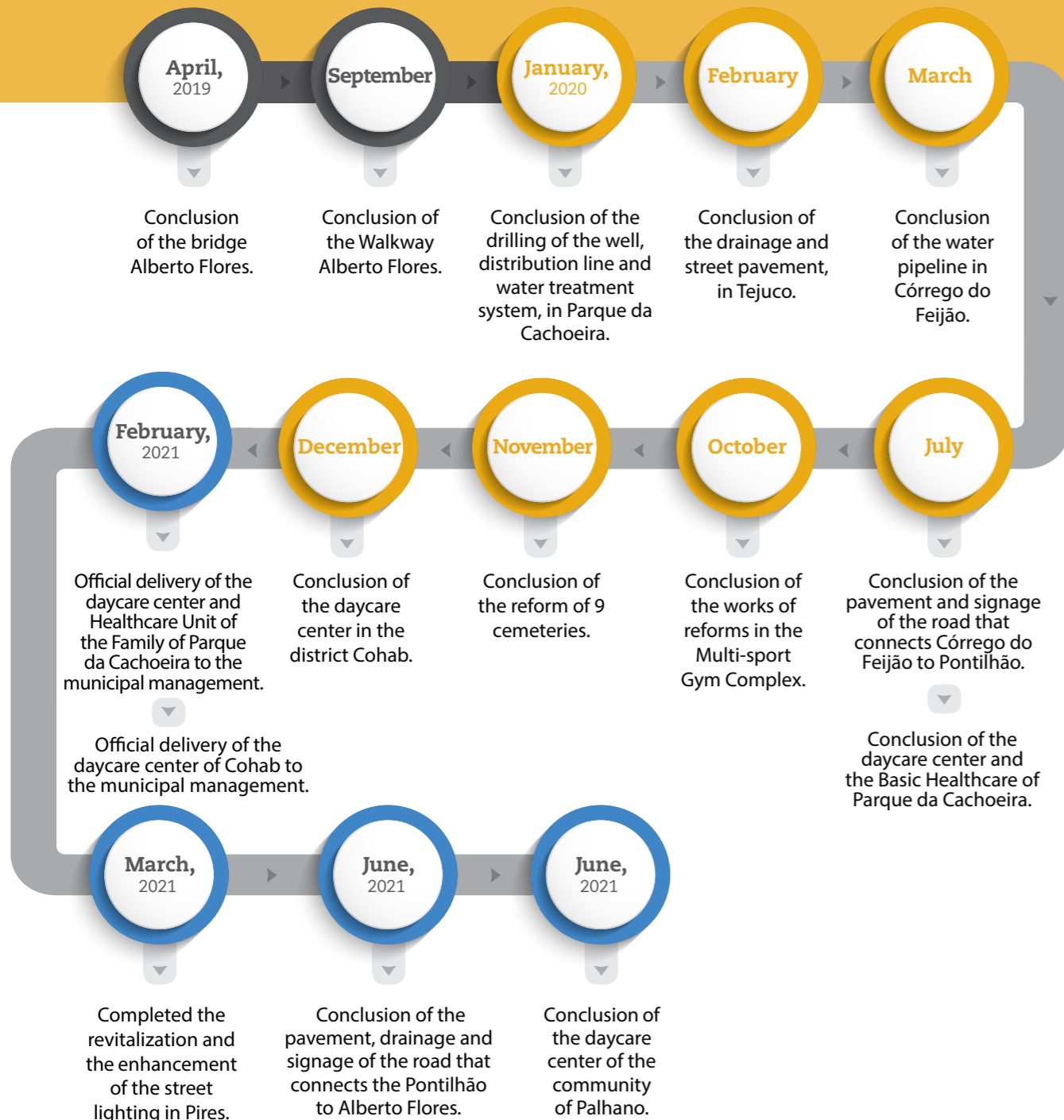
Urban Infrastructure and public equipment

We remain committed to performing actions for the improvement of the quality of life and collective well-being of the communities. The works are devoted to the public equipment and urban infrastructure and establishing partnership with the municipal management.





Works completed Brumadinho



Completed the pavement of the road between Córrego do Feijão and Alberto Flores

The works of pavement, drainage and signage of traffic of around 6 kilometers of the road between Córrego do Feijao and Alberto Flores, in Brumadinho, have been completed. The initiative is part of the compensation actions defined through the dialogue with the communities and municipal management for the improvement of the safety and quality of life of the population.

Watch the video in the QR Code and learn how it is.



Section of the road between Pontilhão and Alberto Flores



Works of Palhano Daycare Center completed



External view



Infant education



Nursery

Area: 700 m²

Rooms: 2 nursery rooms and 4 infant education rooms, with sunbathing spaces (solarium) and sanitary installations.

Shared Spaces: covered patio, park at AR LIVRE, cafeteria and toilets (including Pcd adapted)

Service Areas: kitchen, lactation place, laundry, employees' locker-room.

Administrative Areas: teacher's room, secretary, reception and principal's office.

Other communities will also receive new public spaces and improvement in urban infrastructure. See how the progress of these works is:

Brumadinho

- **Pavement, drainage and signage of Amianto Street – Pires**
Status: in progress – 25% completed
- **Assistance Center to Children with Special Needs – Bela Vista**
Status: in progress – 70% completed

- **Sewage Treatment System – Pires**
Status: in progress – 60% completed
- **Territorio-Parque (Central Square and Community Space) Córrego do Feijão**
Status: in progress – 48% completed
- **Memorial in Honor to the victims – Córrego do Feijão**
Status: in progress – 20% completed



Works on Rua Amanto

Information to the community

Vale Informs
Interdiction of Amianto Street for works of pavement and drainage
 Amianto Street that connects the community of Pires to the center of Brumadinho is interdicted for the realization of pavement and drainage works. Therefore, the flow of vehicles shall be made by Estrada dos Pires and by the Points of Amoremas.
 The activities will be performed from Monday to Friday, from 08:30 AM to 04:30 PM, with duration expected for three months. The works are part of the commitment of Vale with the residents of Brumadinho and the municipal management for the improvement of safety and collective well-being.
 In case of doubts, get in contact with the Service Center by the number 0800 031 0631.

Access the video

Mário Campos

- **Construction of the municipal daycare center**
Status: in progress – 77% completed
- **Construction of the Healthcare Unit of the Family**
Status: in progress – 67% completed

Pompéu

- **Improvements in rural VIAS**
Status: in progress – 17% completed

Renovation of the Community Association of Cachoeira do Choro completed

In addition to the revitalization of the space, equipment and furniture were also donated to the kitchen and class room. In the location, courses of the National Service of Rural Education (Senar), in partnership with the Municipal City Hall will be offered.

“The renovation was very important to us. The situation of the construction was precarious, and we had to go to Curvelo (downtown) to give courses. Now, we can give courses to the community here.”

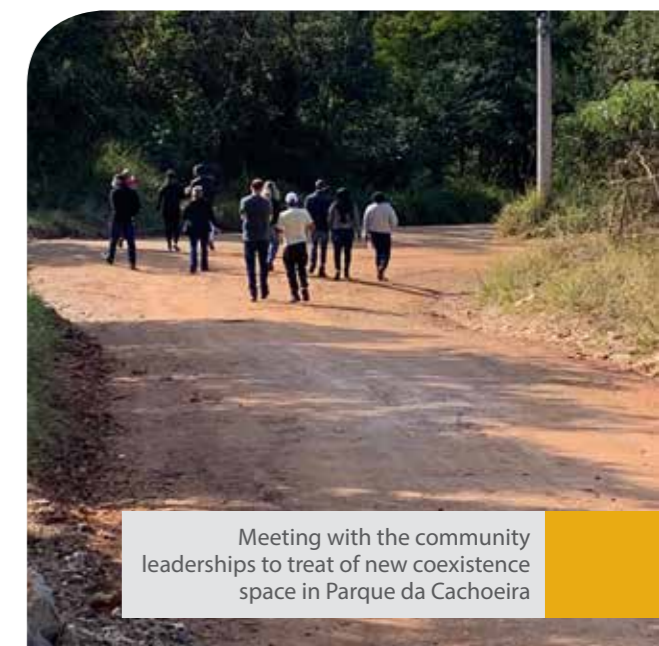
Carlos Roberto,
president of the Association.



Renovation inauguration

Improvements in the rural VIAS in Pompéu

Vale is realizing works of improvement in rural VIAS in Pompéu (MG): cleaning, regularization of the lateral finishing and application of the crushed material as primary coating in a extension of 60 km. The improvements, that are an old demand of the communities of the region, were agreed between Vale and the municipal management, with the purpose to provide more safety and higher flow capacity in the section. The forecast is that the works will be finished by August/21.

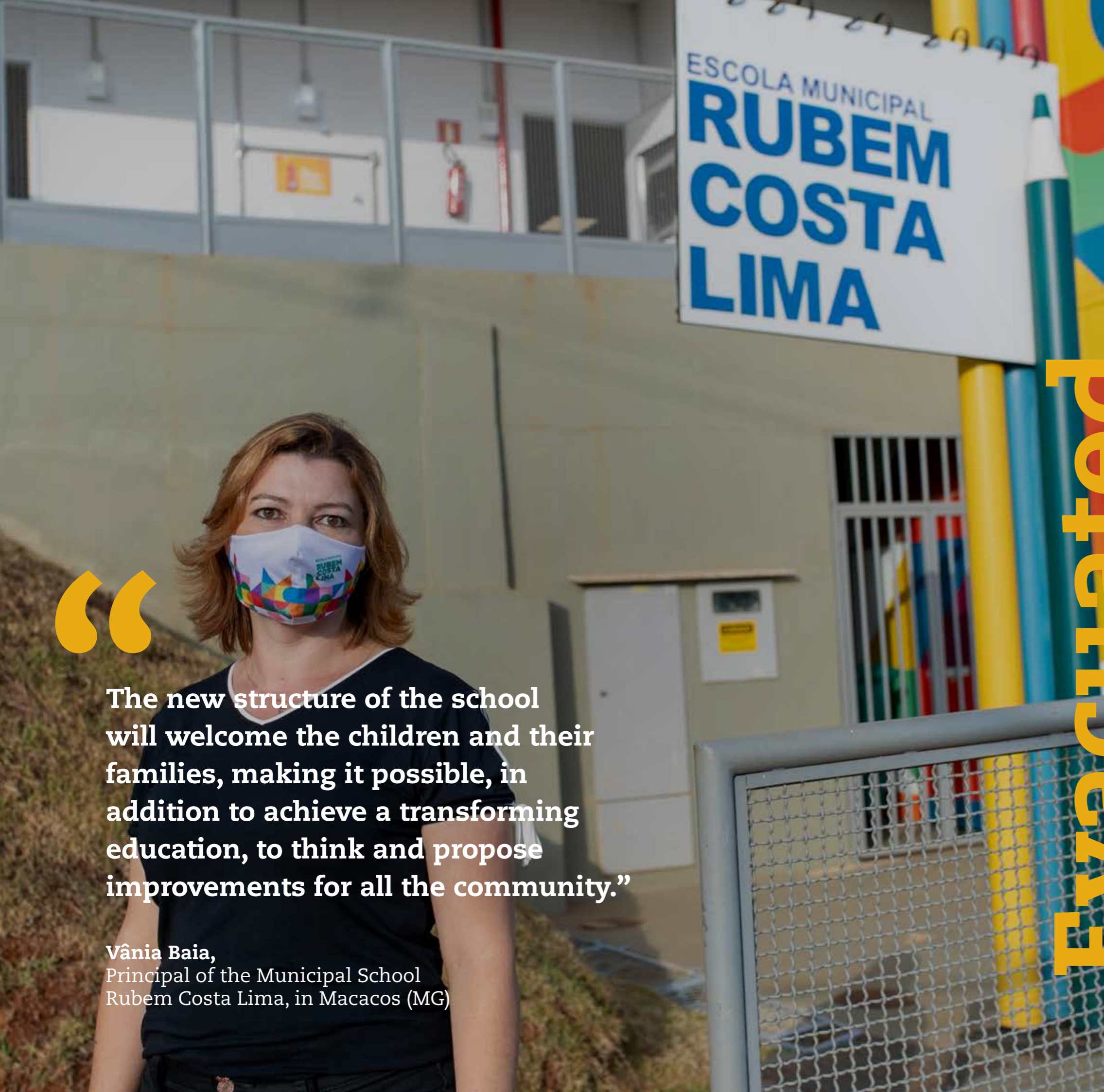


Meeting with the community leaderships to treat of new coexistence space in Parque da Cachoeira

Vale Responds

Why Vale is demolishing properties in Parque da Cachoeira, Brumadinho?

Focused on safety and care to the community of Parque da Cachoeira and region, we have started demolishing some properties acquired by Vale that are not in condition to be inhabited. The purpose of this action is to work only in the buildings that present structural risk, advanced infiltrations or other risks that make it impossible to use with safety and well-being. All properties located in the Self-Saving Zone will also be demolished following the determination of the Civil Defense. All those properties are vacant.



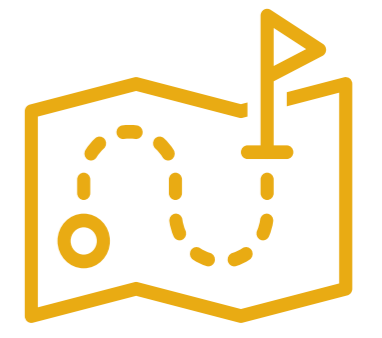
ESCOLA MUNICIPAL
**RUBEM
COSTA
LIMA**

Evacuated Territories



The new structure of the school will welcome the children and their families, making it possible, in addition to achieve a transforming education, to think and propose improvements for all the community.”

Vânia Baia,
Principal of the Municipal School
Rubem Costa Lima, in Macacos (MG)



What are we doing to return the evacuated communities to normality?

We are closer and closer to repair and properly compensate the impacts related to the emergency evacuations and preventive relocations in territories where we operate.

The Compensation and Development Plans that are being constructed in a participative way with the public power and, especially, with the communities, are an important instrument for that.

We understand, however, that some actions identified as priority by the society require immediate solutions. We keep, therefore, dedicating the best efforts of our teams.

Barão de Cocais

Dam Sul Superior, mine of Gongo Soco (Emergency Level 3)

156 families evacuated



Renovation of Praça da Lagoa

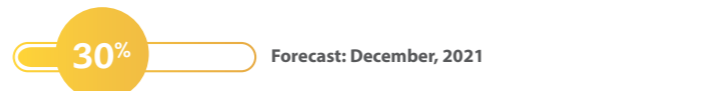
The revitalization of Praça da Lagoa has been resumed after the adjustment of the initial project, requested by the city hall. In December of this year, the population of Barão de Cocais will have their leisure space back with a series of improvements. Among them, the construction of sports courts, playground, press stand, change of the lawn and implementation of drainage and irrigation systems.

Entities involved

- City Hall of Barão de Cocais
- City Council
- Local Associations

Social Dialogue

A committee formed by council members and community leaders have closely accompanied the execution of the work. Since the beginning of the activities, in September 2020, two work site visits have taken place with the follow-up by Vale's professionals.



Students learn guitar in the Coexistence Space



Entities involved

- Local associations

Social Dialogue

In October 2020, we launched an electronic template so that the residents could choose courses and workshops they had interest to be performed in partnership with local social institutions. We have welcomed the suggestions and started the activities in December.

Social Activities

We completed, in June, the project of social activities offered in the Plan of Repair and Compensation of the Self-Saving Zone (ZAS) to the residents of Socorro, Piteira, Tabuleiro e Vila do Gongo. More than 350 qualifications have been completed with Casa do Artesão, Project Sementes and the NGO Juventude Viração, with on-line and presential classes in the Coexistence Space. Young people, adults, children and seniors could learn singing, guitar playing, keyboard playing, theater, contemporary dance and Zumba, in addition to participating of workshops of school reinforcement and handicrafts.



Residents also participate of handicraft workshops

Water security

Following the commitment to adjust the capacity of the local network to ensure the water supply in extreme case of rupture of the dam Sul Superior, we started, in May, the work that will connect by pipeline, the wells Estrada e Castro and the Water Treatment Station (ETA) of Copasa. Therefore, in case of a temporary interruption of water collection of São João River, the system will be prepared to supply this volume of water preventively. The project has started with the precautionary visits of the residences of the surroundings and shall last nine months, in total.



Macacos

Dam B3/B4, mine of Mar Azul (Emergency Level 3)

118 families relocated

Reform of the soccer field

The community of district Capela Velha will receive, by the end of the year, the soccer field totally renovated, ready to assist children, young people and adults of the region. Among the interventions expected, are the recovery of the natural lawn, installation of lighting, fences and crossbars, implementation of an irrigation and drainage system, reconstruction of the cafeteria and construction of the secretary and meeting room. The project will provide, further, the division of the field into three smaller fields for society soccer, with independent accesses.

Entities Involved

- Local associations

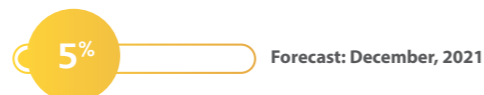


Entities Involved

- City Hall of Barão de Cocais
- Copasa
- Public Prosecutor's Office of Minas Gerais



Soccer field can be divided in three, for society soccer



Social Dialogue

The project of renovation of the soccer field was presented in March to the community, in a meeting held at Fazenda do Engenho, with the participation of sporting associations, residents and representatives of Vale. The approval was unanimous.



Maintenance of Accesses

We started, in February, the improvement of the accesses to Macacos, as agreed with the community. The activities, that are concentrated in business days, will take place regularly at Estrada do Engenho, in the Field of Costa and São Luiz Street, so that the streets are always in good conditions for use.

Entities Involved

- City Hall of Nova Lima

Beginning of classes at school Rubem Costa Lima

With the return of the presencial classes, the children and adolescents of Macacos could finally know and enjoy the new school Rubem Costa Lima, that was delivered in August, 2020 to the community, with the capacity enhanced from 190 to 400 places. The students received a kit with backpack and mask for protection against covid-19.



Children return to classes at the new school



Entities involved

- City Hall of Nova Lima
- Municipal Secretary of Education
- Public Prosecutor's Office
- Civil Defense
- Committee of Student's Mothers

Itabirito

Dams Forquilhas I and III, mine of the Factory

(Emergency Level 3)

17 families evacuated



Perspective of the work, that shall be completed in August.

Renovation of the Healthcare Center

The Healthcare Center Dona Manoca, in Engenheiro Corrêa, district of Ouro Preto, has received investments to go through a complete renovation, that has the objective to improve the quality of the assistance to the local communities. There shall be change of floor, enhancement of the toilet, internal and external painting, revitalization of the fence and creation of vaccine room and pantry, in addition to the construction of a roof.



Other investments in health

Itabirito received an important reinforcement in the public health network. More than half of the fleet of ambulances of the municipality has been renovated – six out of the total eleven – and the Basic Healthcare Units (UBS) received donations of equipment for health assistance, technological and furniture. More than 400 items, among stretchers, thermometers, oximeters, chairs for blood collection, computers, tablets and routers, chairs and tables were donated by means of the program Healthcare Cycle.



Six out of the eleven ambulances of the municipality have been renovated.

Public consultation for asphaltting

Around 300 people of the community of São Gonçalo do Baçõ participated of the public consultation for asphaltting the remaining 5.2 Km of the access section of MG-030 to the district, made in February. And more than 90% voted in favor. The work will start after the completion of the retaining wall of the dams Forquilha and Grupo. The forecast is August, 2021.

Entities involved

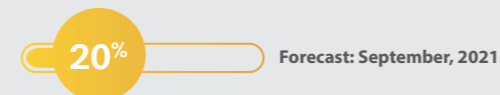
- City Hall of Itabirito

Investments in education

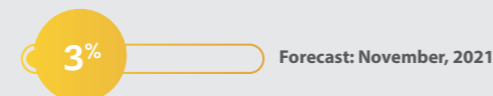
We continue committed in completing the works of the renovation and construction of the sport courts of the municipal schools of Itabirito, within the Compensation and Development Plan that is being constructed for the municipality.

Follow the actions in progress:

Renovation of the sports court of the Municipal School Guilherme Hallais França



Roof, renovation of the court and construction of the locker room at the Municipal School Ribeirao do Eixo.



Public consultation

Are you in favor of asphaltting the access section of MG-030 to the district of São Gonçalo do Baçõ?

Up to the moment, 1.8 km of the section has already been asphalted, although there is still 5.3 km remaining. The decision to continue the works will be made in partnership with the community of São Gonçalo do Baçõ.

Access the website and answer the template:

vale.com/asfaltobacao

Ouro Preto

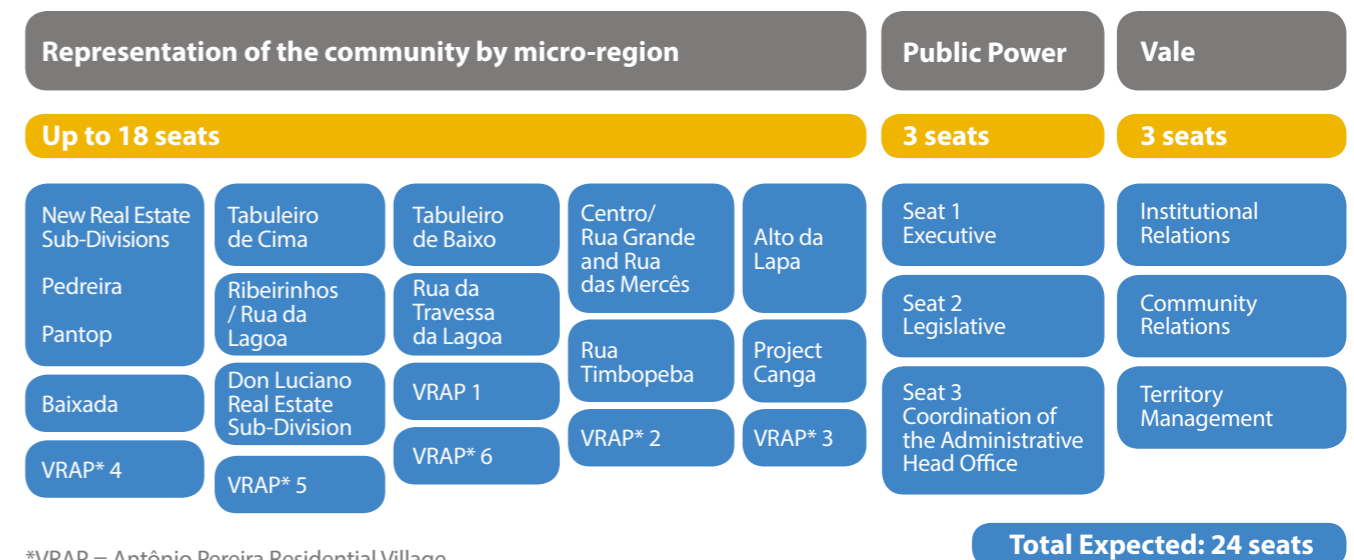
Dam Doutor, Timbopeba mine (Emergency Level 1)

173 families relocated

Formation of the committee of the Compensation and Development Plan

In order to organize more than 2 thousand suggestions of improvements to Antônio Pereira and Vila Residencial Antônio Pereira, indicated in the public consultation performed between August and September of last year, it is being formed a committee with representatives of the community, public power and Vale. Leadership of each micro-region proposed as of the neighborhood relations, characteristics, similar challenges and local potentialities have applied to the seats. Between June and July, the residents were able to choose their representatives. Shortly, the names will be disclosed.

Understand the formation of the committee:



*VRAP = Antônio Pereira Residential Village

Social Dialogue

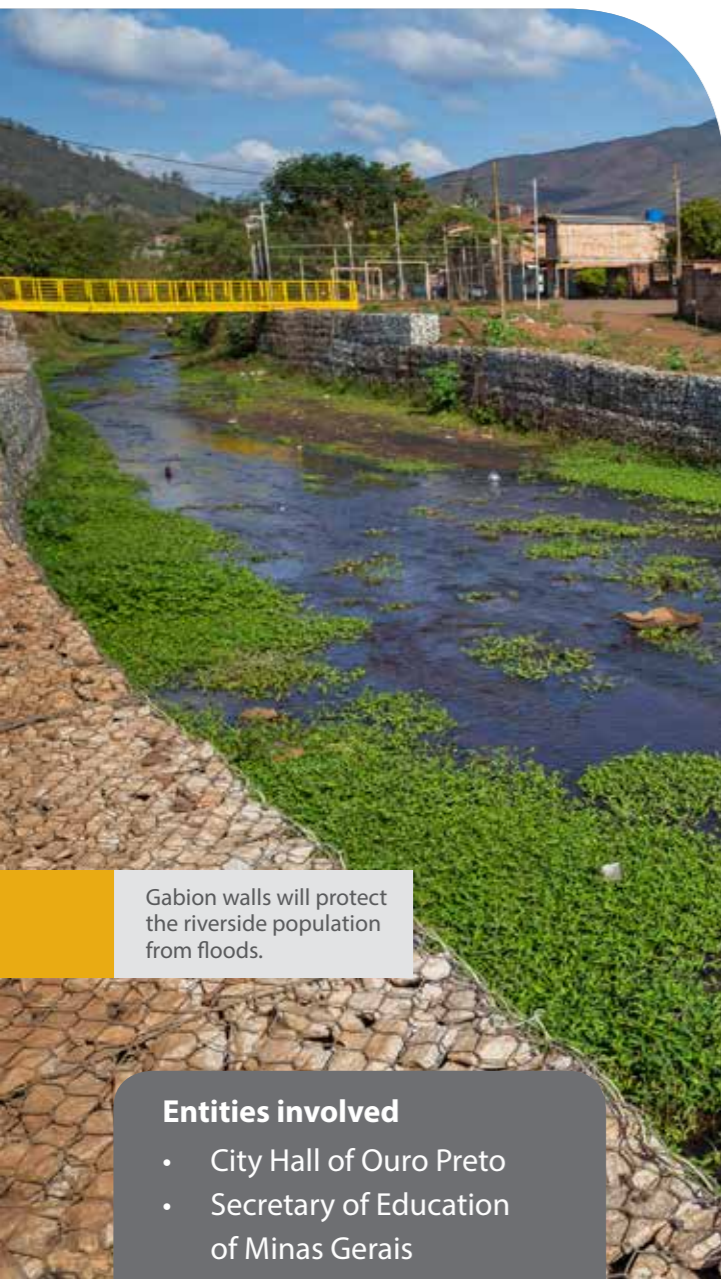


The committee of the Compensation and Development Plan will have the commitment to ensure the participative and democratic character of the process. Among other attributions, it is the committee's role to prepare and apply criteria for the prioritization and selection of actions, accompany the execution of actions forecasted and communicate to the population the activities performed.

Containment of River Tabuleiro

The recompositing of the bank of Tabuleiro River was completed by the city hall in January of this year, with funding of R\$ 1 million of Vale. The work, that still included the reform of a walkway, will contribute to reduce the impacts of the overflows of the river during rainy periods.

100% Status: completed



Gabion walls will protect the riverside population from floods.

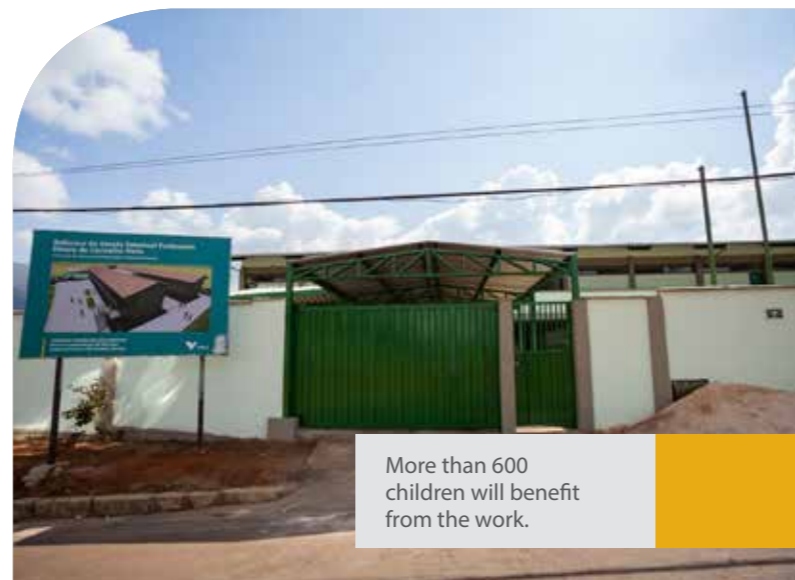
Entities involved

- City Hall of Ouro Preto
- Secretary of Education of Minas Gerais

School renovation

The work of renovation of the State School Daura de Carvalho Neto, made in partnership with the Secretary of Education of Minas Gerais is about to be completed, with investment of R\$1.9 million of Vale. In total, more than 600 children will benefit from the interventions. Among them, internal and external painting, electric and hydraulic revision, replacement of the access gate and room of the sports court.

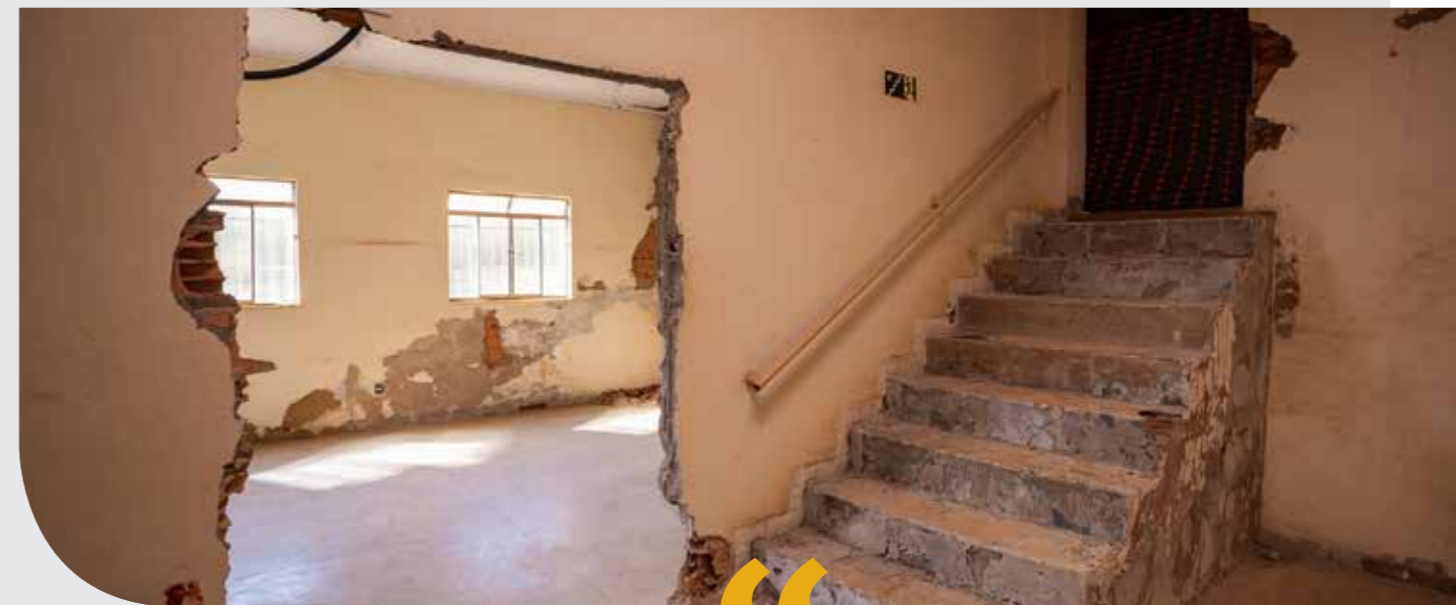
60% Forecast: August, 2021



More than 600 children will benefit from the work.



Works include supply of gates and internal and external painting



CRAS Renovation

The Social Assistance Reference Center (CRAS) will go through a complete renovation. In addition to internal and external painting, electric and hydraulic revision and adjustment of the guardrail and handrail of the ramp, the project includes the supply of gates, installation of window grilles, change of doors and landscaping of the frontal bed.

20% Forecast: October, 2021

Entities involved

- City Hall of Ouro Preto

“The space restored will bring more safety and provide more assistance to the public. It is good to see the preoccupation with the residents of the district.”

Jaqueline Rosa
CRAS Coordinator



Bus Stops were plotted with postcards of the municipality

Replacement of the Bus Stops

In order to promote more comfort and safety to the users of the public transportation, we have replaced two bus stops, in Antônio Pereira and Vila Residencial Antônio Pereira. The equipment was plotted with images of local attractions, boosting tourism and appreciating the culture of the region. Other seven bus stops will still be changed.

100% Status: completed

Entities involved

- City Hall of Ouro Preto



Reduction of the Emergency Level

The Dam Doutor had its emergency level reduced from 2 to 1, in accordance with the guidelines established in the Plan of Emergency of the Mining Dam. The change has occurred in function of the evidence of the improvement of the structure security factor, after the implementation of a series of actions that have been performed since last year, including the pumping to reduce the level of water in the reservoir and works of improvement in one of the sides of the dam.

Conclusion of new relocations

With support of Vale, Civil Defense completed, in May, the preventive relocation of 34 families residing in the so-called polygonal area, that was incorporated into the Self-Saving Zone (ZAS) of dam Doutor, of Timbopeba mine, after recommendation of the auditing company of the Public Prosecutor's Office of Minas Gerais (MPMG), in February of this year. The families had active participation in the selection of their houses, that were delivered after renovation, cleaning and disinfection. They remained receiving full assistance from Vale.

Vale Responds

With the reduction of the emergency level, will the families preventively relocated return to their houses?

In function of the prevention measures of risks of the works of mischaracterization of the dam Doutor, the people that used to live in ZAS and that were relocated preventively from their homes will continue in provisional houses until the works are completed.

Entities Involved

- City Hall of Ouro Preto
- Civil Defense Agency



Dam Doutor, of Timbopeba mine

Executive and Editorial Management Team

Quarterly report of Vale's remediation and development actions in the areas impacted by the rupture of the Dam B1 and in the evacuated territories.

Date: July 2021

CEO: Eduardo Bartolomeo

Special Director of Remediation and Development: Marcelo Klein

Director of Communication: Júlio Gama

Coordination, Publishing Project and Newsroom: Team of Communication and Press - Minas Gerais

Layout: Stalo [IN]

Photo Credit: Vale Archive

Print: 200

Service Channels

Official Channels

Use these channels to clarify questions and keep informed on the remediation actions:

www.vale.com/reparacao

Service Channel: 0800 031 0831

Hello Indemnifications: 0800 888 1182

The presential service has been suspended due to the pandemic of the novel coronavirus. In this period, the demands will be received by the digital channels or via Service Center.

Assistance to the Community

The assistance to the communities continues to be held by 0800 031 0831. Community Relationship Professionals also have direct contact with the families, remotely. And, whenever necessary, in presence, with all due care for the combat to the covid-19 pandemic.

Offices – Indemnifications

During the pandemic, the negotiations of the individual indemnification processes are taking place on-line. The scheduling of the meetings can be made by the following contacts:

Brumadinho

(31) 99600-7242, (31) 99648-6483 ou (31) 98445-8059

Belo Horizonte, Betim and Macacos

(31) 99983-9076

Barão de Cocais

(31) 99944-6773

Ouro Preto

(31) 99830-5886

