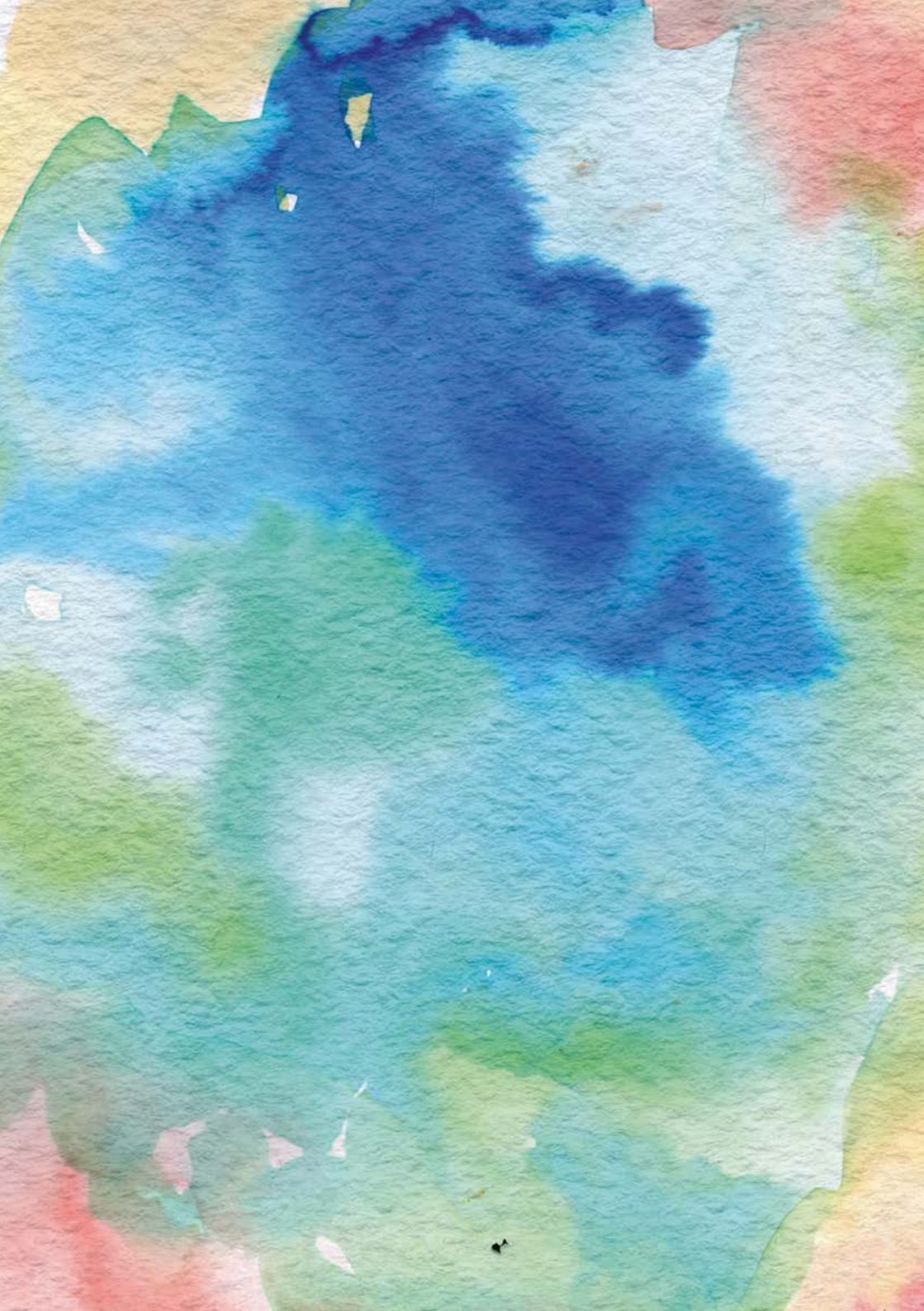


# SANGAY TUKYARINALLA URKU

Imatatak rurana kanchik urku tukyapkika



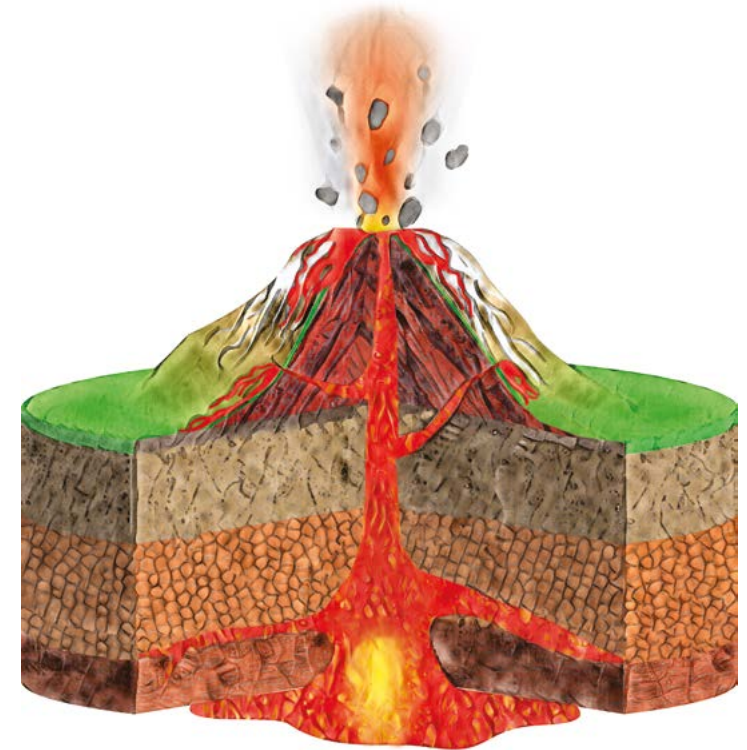
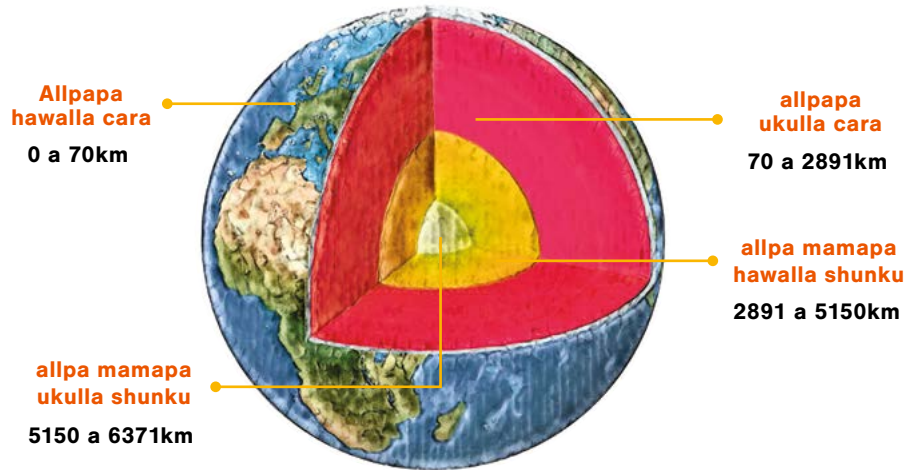


**SANGAY TUKYARINALLA URKU**  
Imatatak rurana kanchik urku tukyapika



# IMASHATAK KAN TUKYARINALLA URKUKUNAKA

Ñukanchik allpa mamaka ashtaka kunukmi kashka, chaymantami asha asha chiriyashpa katimushka 4500 hunu watakunata. Allpa mamaka intipashnalla kunuktami charin, chaytami 5500°C nishpa riksirin. Allpapa **shunkuka sinchilla** kan ninmi. Shinami kunanpi imasha ñukanchik Ecuador mamallaktata riksinchik allpa ukupika ashataka chay kunukka sankulla yakushna tikran ninmi. Chay sankuyashka kunuk yakuka o magma nishpapash riksirin. Chay timpuhuk sanku yakumi, allpa ukumantaka wakin pakirishka utuhu allpata llukshimun. Shinami watakuna kipaka urku tikrarin nin. Kunanpi Sankay urkupashmi shina tikrashka waranka pachakunapi tukyarishka kipa.





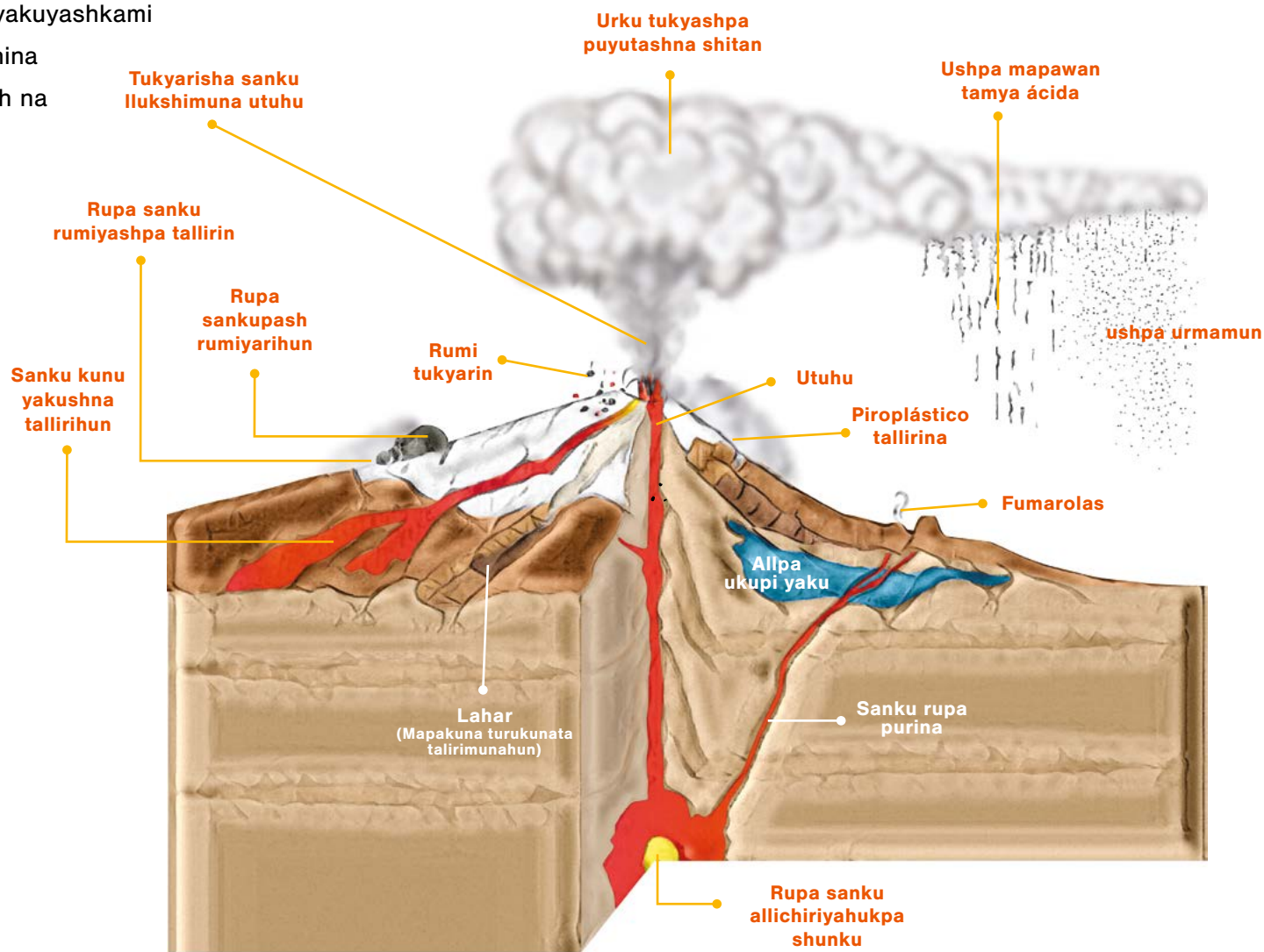
# IMASHATAK URKUKUNAKA TUKYASHPA KAWSAN

Sankay urkushnalla tukyarina urkukunaka kashna kawsaytami charin.

▲ Urkumanta sanku nina tallirihukka (rumi yakuyashkami nin), ashtaka rupaywanmi 900-1000°C shina tikran allimanta (5 km/ shuk pachapapash na paktak, allilla), shina yakuyayka urkupa uma kimillamanmi chashna tikrakun nin, shinallatak allimanta kuyurin nin. Kuti, maypipash waykushnallapi kashpaka sinchitapacha uray shamun nin (80 km/shuk pachatapash yalli uchalla), shinashpa urku chakikaman chayankallami, chaymanta katikunkallami. Chaytami **corrientes piroclásticas** nishpa riksirin.

▲ Chaymantaka, yanalla puyumi killparimun, ushpapash ashtaka tallirimun. Chay ushpaka wayra apakpika ashtakatami purita ushan. Chay urku ukumanta llukshishka ushpaka runtuwan tamyashnallami tallirinka.

Chashna ushpashna, runtuwanshna tamyashka kipaka turu turumi tikrarin, chaytami **lahares** nishpa riksirin. Kay lahares nishka turuka ñapashmi waykutaka purin (30 km/pacha yallita).





## SANKAY TUKYARINALLA URKU

Morona Santiago markamantami Sangay urkuka. Kay urkuka Ecuador mamallaktamanta ashtawan sinchi tukyarina urkumi, payka 1628 watapimi tiyashka kashka. Ashtawanpash, 500.000 watatami kawsamushka.

2019 watamantami **sinchilla tukyarina urku** nishpa amawtakunaka nin. Kay urku ukumantaka llashak sankulla yakuyashka ninami llukshimun nin. Shinallatak lahares nishkapash, corrientes piroclásticas nishkapashmi lluki laduman ashtaka urmamun nin.

Shinallatk **ashtaka ushpa, mapakunapash** alli ladu antisuyumanta ayllullaktakunakaman chayashpa llakichishka nin. 2020 watapi, junio, septiembre killakunapika kay ushpaka Guayaquil kitikamanmi chayashka nin, chaymanta pawak antawapash mana puri ushaskankachu. Chay ushpaka Chimborazo markapi urmashpaka tarpuykunata, wiwakunata, runakunapa kawsaytapashmi llakichishkanka nin.





## KAYPIMI IMA WATAKUNAPILLA SANKAY URKU TUKYARISHKATA WILLACHIN

Tukyari-shka pacha	IEV	Imashalla tukyarishka
Octubre 1628	3-4	Kimsa chunka uchilla pachakunatami parashkanka nin. "Ahtaka ushpami Riombamba llaktapa kiwa hawata urmamushkanka nin shinashpa wakrakunaka ashatakapacha yarhay yallishkanka "
5 junio 1903	2-3	"Tawka punchakunatami ushpa urmamushpa tamyashkanka nin. Shinashpa ushpapalla mirashkanka".
25 enero 1913	3	"Riobambamanta runakunaka kayamushpami ashtaka ushpawan tamyamuhun nishpa willashkanka nin. Chashnashpa punchapash yanaman tikrashkanka. Chay ushpaka Sankay urku tukyakpimi kashkanka."
8 noviembre 1941	3	"Sangay urkuka sinchitapachi tukyarishkanka nin, shinallatak sumakpacha rikurishkanka ninmi. Shinallatak Palmirapi, Coltapi, Riobambapi ushpawan tamyashkanka. Chaypimi ashtaka urku wakahuktapash uyarishkanka"
23 marzo 1959	3	"Sinchi sinchi urku wakahuk uyarishka ninmi Riobambapika. Tukukunapash chuckchunahushka ninmi. Chishipika sinchita ushpawan tamyashkanka Guayaquilkaman 4 pachakunata parashkanka ninmi".
6 marzo 2021	2-3	"5.5 pachakunatami parashka nin. 7-10 km urku hawakamanmi ninaka tukyarishka nin. Ushpapash shinchita tallirimushkanka (1-10kg) llasha ushpa kashka Chimborazopi, shinallatak llashaklla kashkanka Bolivarpi, Cañarpi (0.1-10 kg/m2), kuti, Los Riospi, Guayaspi, Santa Elenapika mana yapa llashachu kashka ninmi (0.01-0.1 kg/m2)".

\*IEV = Índice de Explosividad volcánica. Kaypi yupayka urku maykaman tukyaktami rikuchin. Ahstawan yallilla yupay kaspika, ashtawan sinchi urku tukyashkami kanka. Shinallatak ashtawan ushpapash tallirimushkatami rikuchinka.



## IMASHATA SANKAY URKU TUKYASHPAKA ÑUKACHIKTA UNKUCHIN

Maypi tukyarinalla urku sikipi kawsashpaka, imashalla llaktata paypa tukyaywanka **llakichikta ushaktami** riksina kanchik.

Ushpata ashtakatami Sankay urkuka shitamun, shinashpa Guamotepi Alausípi, Cumandápi, Pallatangapi, Riobambapipash chay ushpaka urmashpa llakichinka.

Urku tukyashpaka ushpa urmamushpaka **ashtaka unkuytami apamunka**. Aycha karata, ñawitami shikshichinka, nanachinka,

shinallatak yura shunkutapashmi unkuchin, ushpawan samayta ukuman aysaymanta. Unayta shina parakpika, ashtawan

hatun nanaytapashmi kunkalla. Wawakuna, ruku tayta, paya mamakunapashmi ashtawan chay unkuyta hapi ushan. Chay

ushpaka ñukanchik wiwakunata, tarpushka yurakunatapashmi nanachinka. Chay ushpaka yakutapashmi mapayachinka, willi

willipipash mana rimay usharinka, shinallatak antawapi puritapash na usharinka, mana alli rikuy ushaymanta.





## IMATATAK SHINANA URKU NARA TUKYAKPIKA

Urku tukyana kakkpika **imatak rurana kanchikta yachanami kanchik**, shinallami asha pankalla yallirinka:

- ▲ Riksina kanchik **ayllullaktapi imatallak rurana emergencia hawa**. Riksina kanchik samanalla kitita, shinallatak mayhan ñanta purina, imashalla llukshinata.
- ▲ Ñukanchik **emergenciapa shigrapimi** kayta charina kanchik: shimi killparinata, mana ismunalla mikunata, yakuta, rimana antapa pilata, achikyachikta, kunuklla churahunata, katanata, mutsurinalla hampita, kikinpa, kikin ayllupa cédulakunata.
- ▲ **Yakuta kamachik tantanakuykunawan rimarina** yaku ama shayarichun.
- ▲ **Wiwakunapa wasitapashmi rurana kanchik**, shinallatak **mikunata allichina ukutapash** rurana kanchik (melaza, balanceado, ensiladotapash allichina)
- ▲ Maypi ushpa urmakuk llaktamanta runakunata, wiwakunata, imalla tiyakkunata, shuk maskashpa yupana kanchik, killkana kanchik. **Shinashpa ñapash imasha paykunata kamanata rikuna kanchik.**





## IMATATAK SHINANA USHPA URMAMUKPIKA

¡Ushpa urmamukpika uchami harkarina kanchik! Chaymantami kayta rurana kanchik.

- ▲ **Shimi killparinata allikuta churakuna**, sinkata shimita killparishpa.
- ▲ Ñukanchik ñawitapash harkarina kanchik, ñawi killpanawan.
- ▲ **Muchikuwan, tasinawan**, imawanpash ñukanchik umata, akchata killparina kanchik.
- ▲ **Hatun zunilla churakunatami churakuna kanchik** rikra, chaki killpashpa, makipipash guantesta churakuna kanchik. Shinallami aycha kara na shikshi, nanay kapinka.
- ▲ **Amuklla** ushutata churakunki.

### ¡ALLILLATA SHIMI KILLPARINATA AKLLANKI!

Mana tukuylla shimi killparinakuna alli killpanchu. N95, KN95 shina shuti shimi killparinakunami hantsi ushpakunamanta harkan. Shinallatak kikin sinka, shimipipashpi allikuta paktana kan. Chaymi ama ushpawan unkurinkapakka, wasi ukupi sakirina kanchik.







## INSTITUTO GEOFÍSICO DE LA EPN

1983 watapimi wacharishka Instituto Geofísico de la Escuela Politécnica Nacional (IG-EPN). Minard Hall shinallatak Hugo Yépez runakunami kay tantanakuyta ruray kallarirka, tawka tukyanalla urkukuna tiyakta rikushpa, paykunata rikuriyankapak. 2003 watamantami Ecuador mamallaktata apakkunaman llamkay kallarirka, shinami paykunapa pakta tukushpa tukuylla tukyanalla urkukunata rikushpa shamushka. Kunanpika ishka chunka tukyanalla urkukunatami rikunakun.

## PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO (PNUD)

shuti tantanakuypashmi Ecuador mamallaktapika 54 watakunata kashka. Kay tantanakuyka tukuy tiksimumyu pachamanta tantanakuynawanmi watarishka kan, shinashpa ñukanchik Ecuador mamallaktapika runakunapa desarrollomanta llamkan. Shinami tukuy llaktakuna ashtawan ñawpaman katichun maskan, wakcha unkuy tukurichun llamkamun, runakunapa kamachinakuynuna tiyachun, apakkuna alliman llaktakunata apachun llamkan, tukuylla runakuna alliman kawsachun munaywan llamkan. Ecuador mamallaktata tukuy shuk ladukunamanta yachaykunawan watachin, shinallatak tukuy kay mamallaktamanta runakuna ashtawan ñawpaman rita ushachunmi llamkan.

Kay killkayka paykunapa yanapaywanmi rurarishka: *Preparación ante desastres y recuperación en zonas indígenas propensas al impacto de múltiples amenazas y riesgos (ECHO/-AM/BUD/2021/91025)*, ECHO (Oficina de Ayuda Humanitaria de la Comisión Europea) tantanakuymi kullkita kushka.

**Shuyushka, killkashka:** D. Sierra, E. Telenchana, A. Vásconez, B. Bernard.

**Alli killkakatishpa rikushka:** D. Sierra

**Shuyushka:** LAINCRE S.A.

**Kamu rurashka:** LAINCRE S.A.



Patricia Mothes IG-EPN tantanakuymanta sumak rurakmi kan. Payka paypa tukuy kawsaypimi tukyanalla urkukunata yachahushpa, rikushpa imatallak ruranata killkashpa shamushka. Chaymi payta riksikkunaka kashna nishpa rimanchik “Patty la vulcanóloga”, paymi kay IG-EPN tantanakuymi wasita ñawpaman apan, paypa ruraywan riksiri tukushkanchik.





## **SANGAY TUKYARINALLA URKU**

Noviembre killapi 2022 watapi killkashpa pankapi rikchata llukchishka  
Quito kitipi, Ecuador mamallaktapi